FINAL

Tank Closure Report – Tank Group 08

Former Philadelphia Energy Solutions Refinery
3144 West Passyunk Avenue
Philadelphia, Pennsylvania
Incident #60059

Prepared for

Bellwether District Holdings, LLC
3144 West Passyunk Avenue
Philadelphia, Pennsylvania

Prepared by

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terraphase engineering

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Acronyms and Abbreviations

12DBA	1,2-dibromoethane
12DCA	1,2-dichloroethane
25 Pa. Code	Title 25 Pennsylvania Code
Act 2	Pennsylvania Land Recycling and Environmental Remediation Standards Act
Act 32	Storage Tank and Spill Prevention Act
AOI	Area of Interest
AST	aboveground storage tank
BDH	Bellwether District Holdings, LLC
bgs	below ground surface
CO&A	Consent Order & Agreement
COC	constituent of concern
DC	Direct Contact
Evergreen	Evergreen Resources Group, LLC; includes Sunoco, Inc. n/k/a ETC Sunoco Holdings LLC, Sunoco, Inc. (R&M) n/k/a Sunoco (R&M), LLC n/k/a Energy Transfer (R&M), LLC and Evergreen collectively referred to as “Evergreen”
Facility	former Philadelphia Energy Solutions refinery facility
ft	feet or foot
Girard Point	Girard Point Refinery
mg/kg	milligrams per kilogram
MSC	medium-specific concentration
Non-Res	Non-Residential
PADEP	Pennsylvania Department of Environmental Protection
PESRM	Philadelphia Energy Solutions Refining and Marketing LLC
PID	photoionization detector
RACR	Remedial Action Completion Report
the Report	Tank Closure Report
RL	reporting limit
SCR	Site Characterization Report
SDS	Safety Data Sheet
the Site	Tank Group 08 location within the former Philadelphia Energy Solutions refinery facility
SGW	soil-to-groundwater
SHS	Statewide Health Standard
SSS	Site-Specific Standard
SVOC	semi-volatile organic compound
TDS	total dissolved solids

Terraphase	Terraphase Engineering Inc.
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
Work Plan	Aboveground Storage Tank Closure Work Plan

Certification

Pursuant to the requirements of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2), adopted May 19, 1995, which states:

Interpretation of geologic and hydrogeologic data shall be prepared by a professional geologist licensed in this Commonwealth.

I hereby attest that, as a Professional Geologist licensed in the Commonwealth of Pennsylvania, I am familiar with, and have reviewed and/or prepared the interpretation of the geology and hydrogeology presented in the attached report entitled, *Tank Closure Report – Tank Group 08, Former Philadelphia Energy Solutions Refinery, 3144 West Passyunk Avenue, Philadelphia, Pennsylvania*, dated September 2024.

Based on the available data represented in the report, I believe that the geologic and hydrogeologic interpretations made herein are reasonable and accurate.

October 8, 2024

Alexander J. Strohl, PG
Project Geologist

Date

1 Introduction

Terraphase Engineering Inc. (Terraphase) has prepared this *Tank Closure Report* (the "Report"), on behalf of Bellwether District Holdings, LLC (BDH), formerly known as Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), to detail the results of the Site Assessment activities at Tank Group 08 (the "Site"), which is located within the Former Philadelphia Energy Solutions refinery facility (the "Facility"). The Facility, which is undergoing closure activities in preparation for redevelopment, is located at 3144 West Passyunk Avenue, Philadelphia, Pennsylvania (**Figure 1**). Remediation activities are being conducted at the Facility under the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) by both BDH and Evergreen Resources Group, LLC (Evergreen)[1] in accordance with the Consent Order and Agreement (CO&A) among Pennsylvania Department of Environmental Protection (PADEP), Sunoco, Inc. (R&M) n/k/a Sunoco (R&M), LLC, and PESRM, now BDH, dated August 14, 2012 and the 2020 First Amendment to that Agreement (2020 Amendment). In accordance with the CO&A, Sunoco/Evergreen is responsible for addressing contamination at the Facility resulting from release(s) which occurred before September 8, 2012, i.e., "Pre-Existing Contamination", and BDH is responsible for addressing contamination at the Facility resulting from release(s) which occurred after September 8, 2012, i.e., "Post-September 2012 Contamination."

The Site Assessment activities described in this Report were performed in accordance with the applicable provisions of The Storage Tank and Spill Prevention Act (Act 32), Title 25 of the Pennsylvania Code (25 Pa. Code) Chapter 245 (Subchapter D), and Terraphase's (2021) *Aboveground Storage Tank Closure Work Plan* (Work Plan), which was approved by PADEP on April 23, 2021. As discussed in the Work Plan (Terraphase 2021), closure of the aboveground storage tanks (AST) under Act 32 is being pursued through a group closure process, in which ASTs in the same general area (e.g., tank farm) have been demolished, removed, investigated, and evaluated at about the same time. Demolition of the tanks has been proceeding in phases from the north to the south with nine Tank Groups in all.

The data collected as part of the Site Assessment activities have been evaluated in the context of other information and environmental analytical data for the Facility to determine whether contamination detected during Site Assessment sampling is (1) Pre-Existing Contamination, (2) Post-September 2012 Contamination associated with a release from an AST, or (3) Post-September 2012 Contamination not associated with a release from an AST. Pre-Existing Contamination will be addressed by Evergreen under its sitewide Act 2 case. Post-September 2012 Contamination associated with a release from an AST will be addressed by BDH under Act 32. Post-September 2012 Contamination not associated with a release from an AST will be addressed by BDH under Act 2.

Tank Group 08 (**Figure 2**) is located within a larger area of the Facility formerly referred to as the Girard Point Refinery (Girard Point). Evergreen is currently engaged in characterization and remediation work

[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.

at the Facility under the Pennsylvania One Cleanup Program under the oversight of the PADEP and the United States Environmental Protection Agency (USEPA; eFACTS Primary Facility No. 748141). In its associated documentation, Evergreen has identified the Tank Group 08 portions of Girard Point as Area of Interest (AOI) 5. The four ASTs addressed in this Report are shown on **Figure 3** and listed in **Table 1**.

This Report was prepared in accordance with Act 32 and 25 Pa. Code Chapter 245 (Subchapter D) and provides a summary of the Site Assessment activities that were performed following the identification of potential releases to the environment during the demolition and removal of the Tank Group 08 ASTs.

Potential releases to the environment were identified based upon a comparison of the soil analytical results to the following Non-Residential (Non-Res) Statewide Health Standard (SHS) Medium-Specific Concentration (MSC) numeric values for soil:

- Non-Res MSC for Direct Contact (DC) Exposure to Surface Soil (0-2 feet [ft])
- Non-Res MSC for DC Exposure to Subsurface Soil (2-15 ft)
- Non-Res MSC for Soil to Groundwater (SGW) (Used Aquifer, Total Dissolved Solids [TDS] ≤ 2,500)

Following the collection of Site Assessment soil samples in Tank Group 08, lead was identified in soil at concentrations above the applicable MSCs at tanks GP R 219 (001A), GP R 225 (015A), and GP R 227 (016A), or along their associated piping. PADEP was notified via telephone of potential release(s) associated with Tank Group 08 on May 2, 2024 and Incident No. 60059 was assigned to the release(s) by PADEP. Copies of the notification documents are included in **Appendix A**.

The Site Assessment results demonstrate that lead concentrations identified are not related to release(s) from the ASTs but rather due to Pre-Existing impacts (e.g., likely associated with historic fill[2] material). Therefore, further characterization is unwarranted and BDH is requesting that PADEP close Incident No. 60059 and the ASTs in Tank Group 08 in accordance with the provisions of Act 32.

This Report includes the following sections:

- Section 2 provides a description of the Site and information regarding the operational/usage history of the ASTs, site topography, geology, and hydrogeology, and surface water. This section also includes a summary of known past releases to the environment in the area and subsequent investigation and remedial activities to address these releases.
- Section 3 discusses the tank infrastructure and removal.
- Section 4 discusses the Site Assessment analytical results and release evaluation.
- Section 5 discusses the standards selected for the attainment demonstration.
- Section 6 presents a summary of the Report and its conclusions.
- Section 7 presents a listing of the documents referenced in this Report.

[2] "Historic fill", which is defined by PADEP in their (2021c) *Management of Fill Policy*, is material, excluding material disposed in landfills, waste piles and impoundments, used to bring an area to grade prior to 1988, and consisting of a conglomeration of soil and residuals, such as ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste.

2 Background

The Facility, a former 1,300-acre refinery, is currently undergoing decommissioning to support redevelopment. The Site[3] is approximately 6.9 acres in size and is located within Girard Point, an area that is also referred to as AOI 5 by Evergreen as part of their One Cleanup Program effort. The Site is located south of Penrose Avenue and east of George Platt Bridge. Prior to demolition, Tank Group 08 consisted of three separate areas containing tanks located in the southern portion of Girard Point. The areas were separated by large piping structures and plant access roadways. Except for the asphalt roadways and parking areas that pass through the portions of Tank Group 08, and the tank foundations themselves, the area is not covered by hardscape.

The ASTs addressed in this Report are listed in **Table 1**. One other AST (i.e., GP R 218) was located within the Tank Group 08 footprint and was previously closed. GP R 218 is not subject to this closure effort.

Figure 3 provides a layout of Tank Group 08.

2.1 Operational History/Usage of the Tanks

The Facility operated as a petroleum refinery between 1860 and 2019. The refinery ceased operations in 2019. The demolition and decommissioning of the subject ASTs began in November 2021. Prior to demolition, the primary products held within these tanks were: benzene (GP R 217), light cycle oil (GP R 219 and GP R 225), and main frac bottoms (GP R 227). Additional details regarding the size, contents, and construction of the tanks are provided in **Table 1**.

2.2 Topography

Topography at the Site is generally flat except for containment berms constructed around the tank areas to provide containment in the event of a release. Regional topography slopes gently to the southwest towards the Schuylkill River, the nearest water body to the Site. The ground surface elevation at the Site is approximately 6.3 ft above mean sea level.[4]

2.3 Regional Geology and Hydrogeology

The Facility is located within the Atlantic Coastal Plain Physiographic Province of Pennsylvania. The Atlantic Coastal Plain is a physiographic province that is defined as having a flat topography, underlain by unconsolidated sediments that thicken to the southeast. The Coastal Plain deposits are sand, gravel, silt, and clay which drape over crystalline igneous and metamorphic rocks. In general, the resulting sediments are approximately 250 ft thick along the Delaware River. These sediments unconformably overlie much older, very complexly deformed rocks of the Piedmont physiographic province. The Coastal Plain deposits in the vicinity of the Facility consist of anthropogenic fill underlain by quaternary deposits.

[3] Tank Group 08 consists of three tank areas formerly referred to as the Southern Tank Farm.

[4] North American Vertical Datum of 1988 (NAVD 88).

Much of the Facility and surrounding area is underlain by historic fill material, which was placed for the purpose of reclaiming lowlands along the banks of the tidal Delaware and Schuylkill Rivers during industrialization. Below the fill material, sediments consist of gray, muddy deposits with occasional sand, gravel, and organic-rich lenses. These sediments were deposited in floodplain, channel, and marsh environments through the Holocene. The most recent deposits are poorly consolidated and below the water table, as a result of their relatively young geologic age and position along the Schuylkill River (tributaries and creeks). Below the Holocene deposits is Pleistocene glacial outwash, commonly referred to as the "Trenton Gravel" along the Delaware River valley. Cretaceous-age sand and clay units making up the Potomac-Raritan-Magothy aquifer system underly the Pleistocene deposits.

The sedimentary record near the Facility consists of a complex series of water-bearing sand units which can comprise one or more hydrostatic units. Previous investigations conducted at the Facility have identified two saturated zones – specifically, an unconfined shallow groundwater unit (occurring within the Holocene and Trenton Gravel deposits) and a deep groundwater unit known as the Farrington Sand, which is part of the Potomac-Raritan-Magothy aquifer system. The deeper groundwater unit is separated by a clay unit; as such, the deeper groundwater has been classified as a semi-confined aquifer. **Appendix B** provides Figure 4B from the *Site Characterization Report/Remedial Action Completion Report for Aboveground Storage Tanks GP-1209, GP-1209, GP-1210, GP-1212, GP-1214, 207, 223, 225, 226, and Underground Storage Tank T-255, Storage Tank Primary Facility Identification Number 51-11557 (Sunoco/PES), Area of Interest 5 (*AOI 5 Site Characterization Report [SCR]/Remedial Action Completion Report [RACR]; Langan 2017b), which presents a detailed cross-section of the area.

2.4 Local Geology and Hydrogeology

During the Site Assessment, soil at the Site was investigated within the upper 5 ft. Anthropogenic fill up to 4.5 ft thick was observed in soil cores collected from some of the soil borings installed in Tank Group 08. The presence of fill is consistent with the findings from Evergreen's remedial investigation sampling performed within AOI 5 (Langan 2017a). Evergreen found that the anthropogenic fill varies in composition across AOI 5 and includes sands and gravels, brick, wood fragments and cinder ash up to 21 ft thick. Figure 4B of Evergreen's 2017 *Remedial Investigation Report Area of Interest 5* (AOI 5 RIR) depicts a geologic cross section that runs northeast to southwest through AOI 5, through the eastern portion of Tank Group 08. This cross section is included for reference in **Appendix B** and shows approximately 10 ft of fill near Tank Group 08. At tank GP R 219, evidence of a clay liner was observed within the area of the containment berm. Soil beneath the fill and/or clay layer generally consists of grey, brown or black sand, silt, and gravel. Boring logs for soil borings installed during Site Assessment are provided in **Appendix C**.

Historically, unconfined aquifer groundwater has been first encountered in the Tank Group 08 area at a depth between 0 and 7 ft below ground surface (bgs).[5] Perched groundwater has also been noted to be

[5] Determined considering gauging data collected between December 1995 and May 2023 from nearby unconfined monitoring wells, A-13, A-121, A-122, A-146, A-149, A-15, A-150, A-159, and A-49.

present in the anthropogenic fill layers throughout the Facility, causing mounding and irregular depressions.

Based on Figures 5 and 6 of the AOI 5 SCR/RACR (Langan 2017b) and Figure 3-29 from the *Sitewide Fate and Transport Remedial Investigation Report* (Sitewide RIR; Stantec 2022) included in **Appendix B**, unconfined aquifer groundwater flow within Tank Group 08 appears to generally be directed south or southwest towards the Schuylkill River.

2.5 Surface Water

The Schuylkill River is in the vicinity of the Site and is approximately 500 ft southwest of its nearest point. Other than the Schuylkill River, no other surface water bodies are within approximately 1,500 ft of Tank Group 08.

2.6 Known Past Releases to the Environment

Contamination is known to be present in this area of the Facility and must be considered when interpreting the Site Assessment results for Tank Group 08. This section provides a discussion of past releases and potential other sources of contamination in the Tank Group 08 area.

The AOI 5 SCR/RACR (Langan 2017b) and AOI 5 RIR (Langan 2017a), prepared on behalf of Evergreen, note a historical investigation relating to a past release of petroleum products in the vicinity of Tank Group 08. The AOI 5 SCR/RACR and AOI 5 RIR (Langan 2017b; Langan 2017a) identified a historical release from one AST (i.e., GP R 225) in Tank Group 08 and notified PADEP on September 19, 2002. Approximately 50 gallons of No. 6 Fuel Oil leaked from the mixer seal on the AST within the tank berm and was recovered using a vacuum truck. The impacted soil was removed and disposed of accordingly. As documented in the AOI 5 SCR/RACR (Langan 2017b), GP R 225 was emptied, and the seal was repaired prior to placing the tank back into operating service and no other actions were taken.

Appendix D provides tables of soil analytical results from investigations conducted prior to Site Assessment sampling by BDH.

In addition to this known release, the Facility was used for petroleum storage and refining for over a century, and both localized and diffuse contamination is present throughout the Facility associated with this past industrial use and with land filling activities (i.e., historic fill). It is important to consider the presence of this contamination, specifically the presence of lead, in interpreting the Site Assessment results for Tank Group 08. As presented in **Table 2**, lead was detected in every Evergreen soil sample within AOI 5 in surface and subsurface soil. **Figures 4a and 4b** show the spatial distribution of these Evergreen soil locations, which supports that lead concentrations in soil are ubiquitous in the area. As shown in AOI 5 SCR/RACR Figures 4A and 4B (provided in **Appendix B**), historic fill covers a significant portion, if not all, of AOI 5 and therefore, indicates the lead concentrations are likely associated with the placement of historic fill in the area rather than a release(s) from an AST.

Environmental sampling has been conducted at the Facility since as early as 1988. Historical sampling in Tank Group 08 has included surface (0-2 ft bgs) and subsurface (> 2 ft bgs) soil samples which have been

analyzed for specific volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), and metals.

As presented in **Table 2**, a comparison of the maximum detected concentrations of constituents of concern (COC) in historical AOI 5[6] samples to applicable SHS MSC[7] indicates the following:

- Cumene and lead[8] have been detected historically in surface soil in the area at concentrations greater than the Non-Residential Soil Direct Contact (Non-Res Soil DC) MSC for surface soil;
- Benzene and cumene have been detected historically in subsurface soil in the area at concentrations greater than the Non-Res Soil DC MSC for subsurface soil; and
- Benzene, cumene, and lead have been detected historically in surface and subsurface soil in the area at concentrations greater than the Non-Res Used Aquifer (TDS ≤ 2500) SGW MSC.

As presented in **Figures 4a and 4b**, historical sampling has identified concentrations of lead exceeding applicable Non-Res MSC in surface soil in the vicinity of previously closed tank GP R 218 and currently assessed tanks GP R 217, GP R 219, and GP R 225. Historical sampling has identified concentrations of lead exceeding applicable Non-Res MSC in subsurface soil in the vicinity of previously closed tank GP R 218 and currently assessed tanks GP R 217, GP R 219, GP R 225, and GP R 227.

These historical analytical results have been considered in evaluating whether the soil analytical data generated during the Site Assessment indicates evidence of new releases to the environment from the tanks, or whether the nature and extent of contamination identified during the Site Assessment is consistent with known historical soil quality.

3 Tank Infrastructure and Removal

In accordance with the Work Plan (Terraphase 2021), Northstar Contracting Group, Inc. and its subcontractors, JD2 Environmental, Inc. and AST Construction, Inc. – PADEP-certified Aboveground Field Constructed Storage Tank System Removal contractors, were retained by BDH to perform tank demolition and handling, including (1) hazard recognition and abatement; (2) removal and handling of vapors, product, wastewaters, and accumulated sludges; (3) overseeing or verifying cleaning of the storage tank system; (4) dismantling the AST; and (5) removal of ancillary equipment and piping.

[6] Due to limited historical soil samples within Tank Group 08, all soil samples in the greater AOI 5 area were considered for this evaluation.

[7] Based upon current and reasonably expected future land and groundwater use, the applicable MSC included are the Non-Residential Soil Direct Contact MSC (for surface and subsurface soil) and Non-Residential Used Aquifer (Total Dissolved Solids ≤ 2500) Soil-to-Groundwater Protection MSC.

[8] In 2015, Langan, on behalf of Evergreen, submitted a Human Health Risk Assessment Report to establish a Site-Specific Standard (SSS) for lead in soil at the Facility, the Belmont Terminal, and the SPMT Marcus Hook Industrial Complex. The Human Health Risk Assessment was approved by the PADEP in a letter dated May 6, 2015, establishing a SSS of 2,240 mg/kg for lead in soil which Evergreen is using to evaluate direct contact exposure to lead in soil as part of completing their remediation program under the 2012 Buyer-Seller Agreement.

The demolition of the four Tank Group 08 ASTs began in November 2021 and was completed in August 2022:

- GP R 217 (PADEP No. 059A)
- GP R 219 (PADEP No. 001A)
- GP R 225 (PADEP No. 015A)
- GP R 227 (PADEP No. 016A)

During the removal, it was determined that all four ASTs had double bottoms. Double bottoms are forms of secondary containment located under the tanks that allow for visual inspection and potential reporting of observed leaks. BDH retained ENTACT, LLC to remove the double bottoms at the four tanks. Removal was completed in August 2022.

On behalf of BDH, JD2 Environmental, Inc. and AST Construction, Inc. submitted to PADEP the required tank registration amendments, copies of which are provided as **Appendix E**.

In accordance with 25 Pa. Code § 245.309(a) and (b)(3), as referenced by 25 Pa. Code § 245.310(a), the Aboveground Storage Tank System Closure Report forms (2630-FM-BECB0514) are included as **Appendix F**.

Pursuant to 25 Pa. Code § 245.310(a)(11), field personnel involved with AST closure activities described in this Report have completed work in accordance with site-specific plans which were implemented in accordance with Occupational Safety and Health Administration requirements in 29 Code of Federal Regulations 1910.120. Each consultant, contractor, subcontractor, and third-party company performing fieldwork associated with the AST closure activities was required to prepare its own site-specific health and safety plan.

4 Site Assessment

This section discusses the results of the Site Assessment activities performed following the identification of potential releases to the environment during the demolition and removal of the Tank Group 08 ASTs.

Section 4.1 describes the Site Assessment sampling and analysis methods that were performed by BDH. Section 4.2 discusses the soil analytical results and documents whether soil contamination is associated with (1) Pre-Existing Contamination, (2) Post-September 2012 Contamination associated with a release from an AST, or (3) Post-September 2012 Contamination not associated with a release from an AST. Section 4.3 includes an assessment of the data quality and usability of the results.

4.1 Sample Collection Methods

The sampling was completed by Ransom Consulting, LLC and their subcontractor, MB Drilling, LLC. In total, the effort involved the installation of 43 soil borings and the collection of 43 soil samples. Prior to the initiation of the sampling activities, the Pennsylvania One Call System (811 Dig Safe) was contacted to identify underground utilities at the Site. In addition, a review of available information provided by facility representatives regarding the presence/absence of underground utilities was used in the

selection of sampling locations. Finally, a private utility locater was retained to use geophysical and electromagnetic techniques to identify potential utilities or subsurface structures at proposed drilling locations.

As discussed in the Work Plan, when no evidence of a release to the environment was identified during tank removal, ASTs were subject to Site Assessment sampling using a grid-based approach with additional samples biased toward the locations of pipe connections or other key infrastructure. The Site Assessment sampling was conducted between April 19, 2024 and April 24, 2024. Due to a field error, certain Site Assessment samples were recollected on June 3, 2024.

In accordance with the approved Work Plan, soil borings were completed using direct-push (i.e., Geoprobe) drilling or hand auger methods and advanced through the top 5 ft of soil. Continuous soil cores were collected, and field screened using a photoionization detector (PID) to identify potentially impacted zones. Soil sampling intervals were selected based on the results of field screening (i.e., staining, odors, and elevated PID readings). Where potentially impacted materials were not encountered, discrete samples were collected at a depth of 3.0-3.5 ft bgs at locations within the footprint or perimeter of the tank, or at a depth of 2.0-2.5 ft bgs at locations associated with AST piping. These sampling intervals are consistent with the Confirmatory Sampling Protocol detailed in PADEP's (2021a) *Closure Requirements for Aboveground Storage Tank Systems* which requires sampling "*at least one foot below underground product piping, two feet below product dispensers, remote fills or containment structures and aboveground product lines for ASTs, and three feet below the tank*." Where fill was observed, samples of the fill were collected if it consisted of soil or soil-like material. Groundwater was not encountered during the installation of the soil borings.

Per 25 Pa. Code § 245.310(a)(14), **Figure 5** shows the location of the Site Assessment soil borings which were installed as part of this effort. **Appendix C** provides copies of the boring logs.

The analysis selected for each soil sample was based on the AST contents as prescribed by PADEP's Short List of Petroleum Products inventory (Table III-5 of the *Land Recycling Program Technical Guidance Manual* [PADEP 2021b]). As shown in **Table 1,** for the four ASTs subject to this closure effort, analytes included one or a combination of the following short lists, based on historical tank contents:

- **Short List 1**. *Leaded Gasoline, Aviation Gasoline and Jet Fuel*: benzene, toluene, ethyl benzene, xylenes (total), cumene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,2-dichloroethane (12DCA), 1,2-dibromoethane (12DBA), and lead.
- **Short List 2**. *Unleaded Gasoline*: benzene, toluene, ethyl benzene, xylenes (total), cumene, methyl tert-butyl ether, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.
- **Short List 3**. *Kerosene, Fuel Oil No. 1*: benzene, toluene, ethyl benzene, cumene, methyl tert-butyl ether, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.
- **Short List 4**. *Diesel Fuel and Fuel Oil No. 2*: benzene, toluene, ethyl benzene, cumene, methyl tert-butyl ether, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.
- **Short List 5**. *Fuel Oil Nos. 4, 5, and 6, and Lubricating Oils and Fluids*: benzene, naphthalene, fluorene, anthracene, phenanthrene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene, and benzo(g,h,i)perylene.

VOCs were analyzed via USEPA Method 8260D. Samples for SVOCs were analyzed via Method 8270E. Samples for lead were analyzed via USEPA Method 6010D. Laboratory analytical services were provided by Alpha Analytical, Inc. (now Pace Analytical) of Westborough, Massachusetts, a PADEP-certified laboratory. Soil samples submitted for analyses were placed directly into laboratory provided glassware and stored on ice in a cooler under appropriate chain of custody protocol.

Copies of the laboratory reports are included in **Appendix G**.

4.2 Analytical Results

Soil analytical results were compared to the following Non-Res SHS MSC numeric values to help identify potential releases to the environment and determine if releases of regulated substances from the ASTs, and their associated piping, could have resulted in contamination (per 25 Pa. Code § 245.309(a)(4)):

- Non-Res MSC for DC Exposure to Surface Soil (0-2 ft)[9]
- Non-Res MSC for DC Exposure to Subsurface Soil (2-15 ft)
- Non-Res MSC for SGW for Used Aquifers (TDS ≤ 2,500)

Soil analytical results were not compared to PADEP's Vapor Intrusion Screening Levels as part of this evaluation since there is currently no vapor intrusion exposure in the area (i.e., vapor intrusion pathway is incomplete). Future buildings at the Facility will be subject to vapor intrusion investigation and evaluation to determine if conditions could pose a potential unacceptable risk to future occupants. Similarly, the comparison to non-residential numeric values is appropriate since the future land use in the area of Tank Group 08 is commercial/industrial.

As shown in **Table 3** and **Tables 4 through 7**, lead was the only COC detected in soil samples from Tank Group 08 greater than the applicable MSC (i.e., Non-Res SGW MSC). **Figure 6** identifies the Site Assessment sampling locations where COC were identified at concentrations greater than the applicable MSC.

Copies of the laboratory reports are included as **Appendix G**.

Based on multiple lines of evidence, the contamination does not appear to be associated with releases from GP R 219, GP R 225, or GP R 227, but rather due to the historical placement of fill in and around the Site. This is consistent with the lithological descriptions of the soil borings installed and sampled at the Site, each of which exhibited fill material (see **Appendix C**).

[9] As described in Section 4.1, soil sampling intervals were based on the results of field screening (i.e., staining, odors, and elevated PID readings). Where potentially impacted materials were not encountered, discrete samples were collected from native soil at a depth of 2.0-2.5 ft bgs (i.e., at locations associated with tank piping) or 3.0-3.5 ft bgs (i.e., at locations within the tank footprint or around the perimeter), in accordance with PADEP's (2021a) *Closure Requirements for Aboveground Storage Tank Systems*. Since only subsurface (> 2 ft bgs) soil samples were collected from some locations during the Site Assessment, the comparison of the resulting concentrations to MSC conservatively disregarded the surface/subsurface soil designation reflected in the Non-Res Soil DC MSC (i.e., results were compared to the Non-Res DC MSC for surface soil). This approach was used to evaluate potential releases from tanks within Tank Group 08.

Additional lines of evidence include:

- According to facility records, GP R 219 and GP R 225 held light cycle oil and GP R 227 held main frac bottoms. A Safety Data Sheet (SDS) for light cycle oil indicates that its only component is petroleum distillates and therefore, lead would not be present in the product. The SDS is presented in **Appendix I**. Since frac bottoms typically refer to the heavy hydrocarbon residues that remain after the fractionation process, which is the separation of crude oil or other hydrocarbon mixtures, lead would also not be present in the product.
- The Site Assessment soil analytical results were compared to the soil analytical results collected in the AOI 5 area unrelated to Site Assessment. As presented in **Tables 2 and 3**, the range of lead concentrations in soil samples collected as part of Site Assessment (i.e., 15 - 2,100 milligrams per kilogram [mg/kg]) is lower than the range of lead concentrations in soil samples collected unrelated to Site Assessment (3.1 – 24,000 mg/kg). Accordingly, the lead concentrations identified in Site Assessment borings do not appear to be associated with releases from GP R 219, GP R 225, or GP R 227, but rather associated with the presence of historic fill in this portion of the Site.

Based on these multiple lines of evidence, the presence of lead in soil within Tank Group 08 is unrelated to a release(s) from the tanks and is likely associated with the placement of historic fill in the area (Pre-Existing Contamination). Since the soil data does not suggest a potential release of regulated substances from these ASTs, additional sampling was not conducted to determine the extent of migration of regulated substances in soil and groundwater (per 25 Pa. Code § 245.309(b)(4)).

4.3 Data Quality Assurance, Quality Control, and Usability

While the Site Assessment analytical data were not subject to formal data validation, elements were included to help assess data quality and usability of the results to support the project objectives. This included the collection of quality assurance/quality control samples, general quality control checks on the field and laboratory information, and an assessment of the impact of elevated reporting limits (RL) due to sample-specific interferences.

4.3.1 Quality Assurance/Quality Control Samples

During the Site Assessment field activities, one trip blank sample per sample cooler and approximately one field blank per 10 samples was submitted to the analytical laboratory to evaluate potential cross-contamination during sample container shipment and storage. Results of the quality assurance and quality control sample analyses are provided in **Appendix H**. Only benzo(b)fluoranthene was detected in blank samples at concentrations greater than the laboratory RL. As benzo(b)fluoranthene was not detected at concentrations above the applicable MSCs in samples collected from the Site, there is no concern associated with laboratory cross-contamination and/or sampling-related cross-contamination.

4.3.2 General Quality Control Checks

General quality control checks were also performed on the field information and laboratory analytical deliverables. This included checking and reviewing laboratory logins and completed chains of custody, confirming that the requested analyte lists were reported, and that the sample nomenclature

conformed to the proposed sampling scope of work. In some cases, multiple analyses were reported by the laboratory and a general review of elements such as surrogate recoveries, qualifiers, analytical limits, and laboratory narratives were performed to identify which results would be used for a given sample. A log of these general checks is provided in **Appendix H** along with the methodology used to select between multiple results when provided by the analytical laboratory.

4.3.3 Reporting Limits

For non-detect COCs, RLs were evaluated against the applicable MSCs. The maximum RLs for two COCs were above the applicable MSCs, as summarized in the table below.

Chemical	Max RL (mg/kg)	Average RL (mg/kg)	Non-Res SGW MSC (mg/kg)	Frequency of RL > than MSC
12DBA	0.32	0.02	0.005	7 of 33 samples
12DCA	0.64	0.03	0.5	1 of 33 samples

Based on prior discussions with Alpha Analytical, Inc. (now Pace Analytical) and other PADEP-certified laboratories, USEPA Method 8260 provides laboratories with the ability to run the analysis via high-level or low-level vials, which is dependent on sample-specific conditions (i.e., interferences from non-target analytes). Samples may need to be diluted to be run via the high-level vial if an abundance of non-target analytes are present in the sample. In these situations, running via the low-level vial is not possible due to the non-target analyte interferences. This dilution results in higher method detection limits and RLs for samples. Due to sample-specific conditions, resampling and reanalyzing soil to assess whether these compounds are present in soil is not viable solution.

An additional evaluation was completed to determine whether 12DBA and 12DCA may be present or not in soil in the area at concentrations below the respective RLs and if present, if it is due to a potential release(s) from the ASTs. Maximum RLs exceeding the applicable MSCs for 12DBA and 12DCA were identified at three tanks (i.e., GP R 219, GP R 225, and GP R 227). The primary content of GP R 219 and GP R 225 is light cycle oil and the primary content of GP R 227 is main frac bottoms, neither of which would contain 12DBA or 12DCA. Therefore, these constituents would not be present in Tank Group 08 due to a release(s). Additionally, even if present, since 12DBA and 12DCA were historically used as a scavenger for lead in anti-knock gasoline mixtures[10] and up until the ban of leaded gasoline in the 1990s could have been present in gasoline-related releases to the environment, these concentrations would be associated with Pre-Existing Contamination. Therefore, these RL exceedances do not impact Site Assessment or associated cleanup decisions.

[10] https://www.atsdr.cdc.gov/toxprofiles/tp37.pdf; https://www.atsdr.cdc.gov/toxprofiles/tp38.pdf

5 Selection of Standards

As described in Section 4, the data collected as part of the Site Assessment activities have been evaluated in the context of other information and environmental analytical data for the Facility. As the lead exceedances are not associated with a release from an AST and are likely associated with the placement of historic fill in the area, a specific Standard for attainment has not been identified and BDH will not be issuing a Remedial Action Plan per 25 Pa. Code § 245.311.

6 Summary and Conclusions

Terraphase has prepared this Report, on behalf of BDH, to detail the results of the Site Assessment activities and to provide the supporting information demonstrating that adequate characterization has been performed for a reliable determination of the need for remedial measures.

The Site Assessment activities described in this Report were performed in accordance with the applicable provisions of Act 32, 25 Pa. Code Chapter 245 (Subchapter D), and Terraphase's Work Plan (2021). The four ASTs addressed in this Report are:

- GP R 217 (PADEP No. 059A)
- GP R 219 (PADEP No. 001A)
- GP R 225 (PADEP No. 015A)
- GP R 227 (PADEP No. 016A)

Based on the results of soil samples collected during the Site Assessment and a comparison to applicable MSC, no evidence of a release from GP R 217 was identified. The Site Assessment outcome for GP R 217 is "No Obvious Contamination – Sample Results Meet Action Levels."

Lead was detected in soil samples collected near GP R 219, GP R 225, and GP R 227. The Site Assessment outcome category for these ASTs is "No Obvious Contamination – Sample Results Do Not Meet Action Levels." A notification of release was submitted to the PADEP on May 13, 2024. PADEP assigned the release in Tank Group 08 to Incident No. 60059.

The results of the Site Assessment indicate that the lead detected in soil samples from Tank Group 08 is not related to releases from GP R 219, GP R 225, or GP R 227, but rather due to Pre-Existing Contamination (e.g., associated with historic fill material). Based on the information presented, a release from these ASTs has not occurred. Therefore, further characterization is unwarranted and BDH is requesting that PADEP close Incident No. 60059 and the ASTs in Tank Group 08 in accordance with the provisions of Act 32.

7 References

Langan. 2017a. *Remedial Investigation Report Area of Interest 5*. January 16.

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Stantec. 2022. *Sitewide Fate and Transport Remedial Investigation Report.* June 30.

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Tables

Table 1
Aboveground Storage Tank Details
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Facility	State Regulation Number	Tank Number	Design Capacity (gal)	Primary Product	Proposed Analyte List[x]	Regulatory Status	Facility ID	Status Modification Date	Tank Type	Double Bottom	Diameter (ft)	Height (ft)	Remaining Liquid (gal)	GPS Survey Complete	Demo Complete	Storage Tanks Reg./Permit App Form Submitted	Release Notification	Incident No.	Int. Remedial/ Corrective Action Required
Girard Point	001A	GP R 219	1,665,720	Light Cycle Oil	Short List 1-5	R	51-33624	4/8/2022	Cone Roof	Y	114	30	N/A	Y	Y	4/27/2022	5/2/2024	60059	N/A
Girard Point	015A	GP R 225	3,360,000	Light Cycle Oil	Short List 1-5	R	51-33624	11/15/2021	Cone Roof	Y	117	42	N/A	Y	Y	12/16/2021	5/2/2024	60059	N/A
Girard Point	016A	GP R 227	3,385,200	Main Frac Bottoms	Short List 1-5	R	51-33624	8/26/2022	Cone Roof	Y	120	40	N/A	Y	Y	9/9/2022	5/2/2024	60059	N/A
Girard Point	059A	GP R 217	1,359,162	Benzene	Benzene	R	51-33624	4/5/2022	IFR	Y	95	30	N/A	Y	Y	4/27/2022	N/A	N/A	N/A

Abbreviations:
IFR -- Internal Floating Roof
N -- No
N/A -- Not Applicable
R -- Removed
Y -- Yes

Table 2
Soil Screening Summary (Historical)
AOI 5
Bellwether District Holdings, LLC, Philadelphia, PA

Matrix	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	Non-Res Direct Contact MSC for Surface Soil (0-2 ft) (mg/kg)	Ratio of Max Detect to Non-Res Direct Contact MSC for Surface Soil	Non-Res Direct Contact MSC for Subsurface Soil (2-15 ft) (mg/kg)	Ratio of Max Detect to Non-Res Direct Contact MSC for Subsurface Soil	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC (mg/kg)	Ratio of Max Detect to Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC
Surface Soil	VOC	Benzene	71-43-2	149	46	0.00025	1.9	57	280	0.20			0.50	**110**
Surface Soil	VOC	Cumene	98-82-8	142	28	0.00023	3100	47000	10000	**4.7**			2500	**19**
Surface Soil	VOC	Ethyl Benzene	100-41-4	145	12	0.00033	4.3	44	880	0.050			70	0.63
Surface Soil	VOC	Methyl tert-butyl ether	1634-04-4	141	1	0.00041	0.00041	0.00041	8500	0.000000048			2.0	0.00021
Surface Soil	VOC	Toluene	108-88-3	145	29	0.00041	0.43	6.9	10000	0.00069			100	0.069
Surface Soil	VOC	1,2,4-Trimethylbenzene	95-63-6	128	16	0.00030	0.24	1.9	4700	0.00040			300	0.0063
Surface Soil	VOC	1,3,5-Trimethylbenzene	108-67-8	128	14	0.00034	0.24	2.7	4700	0.00058			93	0.029
Surface Soil	VOC	Xylenes (total)	1330-20-7	145	25	0.00023	0.94	12	7900	0.0015			1000	0.012
Surface Soil	SVOC	Anthracene	120-12-7	133	124	0.018	0.50	13	190000	0.000066			350	0.036
Surface Soil	SVOC	Benzo(a)anthracene	56-55-3	138	129	0.016	1.0	22	130	0.17			340	0.064
Surface Soil	SVOC	Benzo(a)pyrene	50-32-8	143	132	0.020	1.0	19	91	0.21			46	0.42
Surface Soil	SVOC	Benzo(b)fluoranthene	205-99-2	138	131	0.017	1.3	27	76	0.35			170	0.16
Surface Soil	SVOC	Benzo(g,h,i)perylene	191-24-2	138	129	0.033	0.69	13	190000	0.000067			180	0.071
Surface Soil	SVOC	Chrysene	218-01-9	138	129	0.032	1.2	21	760	0.027			230	0.090
Surface Soil	SVOC	Fluorene	86-73-7	138	72	0.016	0.84	19	130000	0.00015			3800	0.0050
Surface Soil	SVOC	Naphthalene	91-20-3	142	80	0.0020	0.58	19	66	0.29			25	0.76
Surface Soil	SVOC	Phenanthrene	85-01-8	142	133	0.020	2.1	54	190000	0.00028			10000	0.0054
Surface Soil	SVOC	Pyrene	129-00-0	138	128	0.038	1.9	36	96000	0.00037			2200	0.016
Surface Soil	INORG	Lead	7439-92-1	195	195	16	590	3700	1000	**3.7**			450	**8.2**
Subsurface Soil	VOC	Benzene	71-43-2	180	99	0.00018	64	980			330	**3.0**	0.50	**2000**
Subsurface Soil	VOC	Cumene	98-82-8	177	103	0.00033	2200	33000			10000	**3.3**	2500	**13**
Subsurface Soil	VOC	1,2-Dibromoethane	106-93-4	167	1	0.0020	0.0020	0.0020			4.2	0.00048	0.0050	0.40
Subsurface Soil	VOC	Ethyl Benzene	100-41-4	167	68	0.00027	0.46	10			1000	0.010	70	0.14
Subsurface Soil	VOC	Methyl tert-butyl ether	1634-04-4	167	6	0.00041	0.0092	0.049			9800	0.0000050	2.0	0.025
Subsurface Soil	VOC	Toluene	108-88-3	167	78	0.00023	0.71	8.2			10000	0.00082	100	0.082
Subsurface Soil	VOC	1,2,4-Trimethylbenzene	95-63-6	167	80	0.00027	0.35	3.7			5400	0.00069	300	0.012
Subsurface Soil	VOC	1,3,5-Trimethylbenzene	108-67-8	167	43	0.00026	0.22	3.6			5400	0.00066	93	0.038
Subsurface Soil	VOC	Xylenes (total)	1330-20-7	167	97	0.00016	0.92	17			9100	0.0019	1000	0.017
Subsurface Soil	SVOC	Anthracene	120-12-7	129	120	0.023	2.2	46			190000	0.00024	350	0.13
Subsurface Soil	SVOC	Benzo(a)anthracene	56-55-3	129	124	0.033	2.3	37			190000	0.00020	340	0.11
Subsurface Soil	SVOC	Benzo(a)pyrene	50-32-8	129	125	0.034	2.2	32			190000	0.00017	46	0.68
Subsurface Soil	SVOC	Benzo(b)fluoranthene	205-99-2	129	125	0.033	2.4	31			190000	0.00016	170	0.18
Subsurface Soil	SVOC	Benzo(g,h,i)perylene	191-24-2	129	124	0.023	1.4	11			190000	0.000056	180	0.059
Subsurface Soil	SVOC	Chrysene	218-01-9	129	126	0.034	2.5	36			190000	0.00019	230	0.16
Subsurface Soil	SVOC	Fluorene	86-73-7	129	108	0.021	4.1	54			190000	0.00028	3800	0.014
Subsurface Soil	SVOC	Naphthalene	91-20-3	129	91	0.018	1.4	15			77	0.19	25	0.60
Subsurface Soil	SVOC	Phenanthrene	85-01-8	129	125	0.020	10	220			190000	0.0011	10000	0.022
Subsurface Soil	SVOC	Pyrene	129-00-0	129	127	0.030	4.8	93			190000	0.00049	2200	0.042
Subsurface Soil	INORG	Lead	7439-92-1	129	129	3.1	1200	24000			190000	0.12	450	**52**

Notes:
Only constituents detected are shown.
Results are only shown for locations within AOI 5 and only consider the Short List 1-5 constituents analyzed within Tank Group 08.
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the criteria for Xylenes (total).
Ratios of concentration to the screening level greater than 1 are shaded in bold.
Chem Group - chemical group; INORG - metals; SVOC - semi-volatile organic compounds; VOC - volatile organic compounds

Table 3
Soil Screening Summary (Site Assessment)
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Matrix	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	Non-Res Direct Contact MSC for Surface Soil (0-2 ft) (mg/kg)	Ratio of Max Detect to Non-Res Direct Contact MSC for Surface Soil	Non-Res Direct Contact MSC for Subsurface Soil (2-15 ft) (mg/kg)	Ratio of Max Detect to Non-Res Direct Contact MSC for Subsurface Soil	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC (mg/kg)	Ratio of Max Detect to Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC
Surface Soil	VOC	Benzene	71-43-2	5	4	0.00015	0.039	0.11	280	0.00039			0.50	0.22
Surface Soil	VOC	Cumene	98-82-8	4	3	0.00038	2.3	6.6	10000	0.00066			2500	0.0026
Surface Soil	VOC	Ethyl Benzene	100-41-4	4	2	0.0043	0.10	0.20	880	0.00023			70	0.0029
Surface Soil	VOC	Toluene	108-88-3	4	2	0.00075	0.0012	0.0017	10000	0.00000017			100	0.000017
Surface Soil	VOC	1,2,4-Trimethylbenzene	95-63-6	4	2	0.0054	0.25	0.50	4700	0.00011			300	0.0017
Surface Soil	VOC	1,3,5-Trimethylbenzene	108-67-8	4	2	0.00030	0.0013	0.0022	4700	0.00000047			93	0.000024
Surface Soil	VOC	Xylenes (total)	1330-20-7	4	3	0.0033	0.37	1.1	7900	0.00014			1000	0.0011
Surface Soil	SVOC	Anthracene	120-12-7	4	3	0.36	1.6	2.3	190000	0.000012			350	0.0066
Surface Soil	SVOC	Benzo(a)anthracene	56-55-3	4	4	0.11	2.0	4.1	130	0.032			340	0.012
Surface Soil	SVOC	Benzo(a)pyrene	50-32-8	4	4	0.12	2.0	4.4	91	0.048			46	0.096
Surface Soil	SVOC	Benzo(b)fluoranthene	205-99-2	4	4	0.15	2.3	5.2	76	0.068			170	0.031
Surface Soil	SVOC	Benzo(g,h,i)perylene	191-24-2	4	4	0.065	1.0	2.3	190000	0.000012			180	0.013
Surface Soil	SVOC	Chrysene	218-01-9	4	4	0.10	1.8	3.8	760	0.0050			230	0.017
Surface Soil	SVOC	Fluorene	86-73-7	4	3	0.36	1.5	2.7	130000	0.000021			3800	0.00071
Surface Soil	SVOC	Naphthalene	91-20-3	4	4	0.073	1.0	2.0	66	0.030			25	0.080
Surface Soil	SVOC	Phenanthrene	85-01-8	4	3	0.96	3.8	7.2	190000	0.000038			10000	0.00072
Surface Soil	SVOC	Pyrene	129-00-0	4	4	0.11	2.8	5.3	96000	0.000055			2200	0.0024
Surface Soil	INORG	Lead	7439-92-1	4	4	15	82	160	1000	0.16			450	0.36
Subsurface Soil	VOC	Benzene	71-43-2	38	14	0.00022	0.031	0.36			330	0.0011	0.50	0.72
Subsurface Soil	VOC	Cumene	98-82-8	29	21	0.00023	0.24	1.5			10000	0.00015	2500	0.00060
Subsurface Soil	VOC	Ethyl Benzene	100-41-4	29	15	0.00019	0.025	0.18			1000	0.00018	70	0.0026
Subsurface Soil	VOC	Toluene	108-88-3	29	9	0.00067	0.17	1.2			10000	0.00012	100	0.012
Subsurface Soil	VOC	1,2,4-Trimethylbenzene	95-63-6	29	19	0.00057	0.090	1.1			5400	0.00020	300	0.0037
Subsurface Soil	VOC	1,3,5-Trimethylbenzene	108-67-8	29	15	0.00027	0.031	0.26			5400	0.000048	93	0.0028
Subsurface Soil	VOC	Xylenes (total)	1330-20-7	29	21	0.0016	0.16	2.3			9100	0.00025	1000	0.0023
Subsurface Soil	SVOC	Anthracene	120-12-7	29	29	0.18	3.0	8.3			190000	0.000044	350	0.024
Subsurface Soil	SVOC	Benzo(a)anthracene	56-55-3	29	29	0.46	5.2	21			190000	0.00011	340	0.062
Subsurface Soil	SVOC	Benzo(a)pyrene	50-32-8	29	29	0.46	4.7	17			190000	0.000089	46	0.37
Subsurface Soil	SVOC	Benzo(b)fluoranthene	205-99-2	29	29	0.49	5.1	19			190000	0.00010	170	0.11
Subsurface Soil	SVOC	Benzo(g,h,i)perylene	191-24-2	29	29	0.24	2.2	7.4			190000	0.000039	180	0.041
Subsurface Soil	SVOC	Chrysene	218-01-9	29	29	0.43	4.7	16			190000	0.000084	230	0.070
Subsurface Soil	SVOC	Fluorene	86-73-7	29	29	0.069	3.0	11			190000	0.000058	3800	0.0029
Subsurface Soil	SVOC	Naphthalene	91-20-3	29	29	0.45	2.1	5.8			77	0.075	25	0.23
Subsurface Soil	SVOC	Phenanthrene	85-01-8	29	29	0.19	11	44			190000	0.00023	10000	0.0044
Subsurface Soil	SVOC	Pyrene	129-00-0	29	29	0.86	8.7	34			190000	0.00018	2200	0.015
Subsurface Soil	INORG	Lead	7439-92-1	29	29	30	200	2100			190000	0.011	450	**4.6**

Notes:
Only constituents detected are shown.
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the criteria for Xylenes (total).
Ratios of concentration to the screening level greater than 1 are shaded in bold.
Chem Group - chemical group; INORG - metals; SVOC - semi-volatile organic compounds; VOC - volatile organic compounds

Table 4
Summary of Soil Analytical Results (GP R 217)
Tank Group 08
Bellwether District Holdings, LLC , Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	GPR217-01R	GPR217-02R	GPR217-03R	GPR217-04R	GPR217-05R	GPR217-06R	GPR217-07R	GPR217-08R	GPR217-09R	GPR217-10R
Field Sample ID			GPR217-01-SS01-2	GPR217-02-SS01-2	GPR217-03-SS01-2	GPR217-04-SS01-2	GPR217-05-SS01-2	GPR217-06-SS01-2	GPR217-07-SS01-2	GPR217-08-SS01-2	GPR217-09-SS01-2	GPR217-10-SS01-2
Collection Depth (ft bgs)			2.0 - 2.5	1.5 - 2.0	4.5 - 5.0	3.5 - 4.0	4.5 - 5.0	4.5 - 5.0	4.5 - 5.0	3.5 - 4.0	2.0 - 2.5	3.0 - 3.5
Sample Method			Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Date			6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024
Comments												
Volatile Organic Compounds												
Benzene	280	0.5	0.00029 J (0.00083)	0.046 J (0.072)	0.00068 J (0.00078)	0.0037 (0.00085)	0.00032 J (0.0009)	0.00036 J (0.00056)	ND (0.00059)	0.00046 J (0.00084)	ND (0.00096)	ND (0.00064)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Only compounds with at least one detection are shown.
3 No concentrations exceed the Non-Res Direct Contact with Soil MSC.
4 No concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
J - Estimated Concentration

Table 5
Summary of Soil Analytical Results (GP R 219)
Tank Group 08
Bellwether District Holdings, LLC , Philadelphia, PA

Location Field Sample ID Collection Depth (ft bgs) Sample Method Sample Date Comments	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	GPR219-01 GPR219-01-SS01 4.0 - 4.5 Grab 4/22/2024	GPR219-02 GPR219-02-SS01 4.5 - 5.0 Grab 4/22/2024	GPR219-03 GPR219-03-SS01 1.0 - 1.5 Grab 4/22/2024	GPR219-04 GPR219-04-SS01 4.5 - 5.0 Grab 4/22/2024	GPR219-05 GPR219-05-SS01 4.0 - 4.5 Grab 4/22/2024	GPR219-06 GPR219-06-SS01 3.5 - 4.0 Grab 4/22/2024	GPR219-07 GPR219-07-SS01 4.0 - 4.5 Grab 4/22/2024	GPR219-08 GPR219-08-SS01 3.0 - 3.5 Grab 4/22/2024	GPR219-09 GPR219-09-SS01 4.5 - 5.0 Grab 4/22/2024
Volatile Organic Compounds											
Benzene	280	0.5	ND (0.00051)	ND (0.00065)	0.0018 (0.0006)	0.00032 J (0.00081)	ND (0.00051)	ND (0.00059)	ND (0.00066)	ND (0.03)	ND (0.00058)
Cumene	10000	2500	0.018 (0.001)	0.0059 (0.0013)	0.23 (0.0012)	0.02 (0.0016)	0.019 (0.001)	0.0011 J (0.0012)	ND (0.0013)	0.45 (0.06)	0.0087 (0.0012)
1,2-Dibromoethane	3.7	0.005	ND (0.00051)	ND (0.00065)	ND (0.0006)	ND (0.00081)	ND (0.00051)	ND (0.00059)	ND (0.00066)	ND (0.03)	ND (0.00058)
1,2-Dichloroethane	85	0.5	ND (0.001)	ND (0.0013)	ND (0.0012)	ND (0.0016)	ND (0.001)	ND (0.0012)	ND (0.0013)	ND (0.06)	ND (0.0012)
Ethyl Benzene	880	70	0.00019 J (0.001)	ND (0.0013)	0.0043 (0.0012)	0.0004 J (0.0016)	ND (0.001)	ND (0.0012)	ND (0.0013)	0.017 J (0.06)	0.00064 J (0.0012)
Methyl tert-butyl ether	8500	2	ND (0.002)	ND (0.0026)	ND (0.0024)	ND (0.0032)	ND (0.002)	ND (0.0024)	ND (0.0026)	ND (0.12)	ND (0.0023)
Toluene	10000	100	ND (0.001)	ND (0.0013)	0.0017 (0.0012)	ND (0.0016)	0.00072 J (0.001)	ND (0.0012)	ND (0.0013)	0.054 J (0.06)	0.001 J (0.0012)
1,2,4-Trimethylbenzene	4700	300	0.002 (0.002)	0.0024 J (0.0026)	0.0054 (0.0024)	0.0066 (0.0032)	0.003 (0.002)	ND (0.0024)	ND (0.0026)	0.028 J (0.12)	0.002 J (0.0023)
1,3,5-Trimethylbenzene	4700	93	0.0027 (0.002)	0.0011 J (0.0026)	0.0022 J (0.0024)	0.0016 J (0.0032)	ND (0.002)	ND (0.0024)	ND (0.0026)	ND (0.12)	0.00044 J (0.0023)
Xylenes (total)	7900	1000	0.0022 J (0.001)	0.0047 (0.0013)	0.018 (0.0012)	0.0094 J (0.0016)	0.013 (0.001)	0.0029 J (0.0012)	ND (0.0013)	0.11 J (0.06)	0.0083 (0.0012)
Semivolatile Organic Compounds											
Anthracene	190000	350	4.6 (0.13)	8.3 (0.14)	0.36 (0.11)	6.4 (2)	1.2 (0.12)	0.87 (0.13)	0.65 (0.14)	5.3 (0.11)	2.6 (0.12)
Benzo(a)anthracene	130	340	5.4 (0.13)	13 (0.69)	1 (0.11)	4 (2)	2 (0.12)	1.9 (0.13)	0.7 (0.14)	11 (0.57)	3.3 (0.12)
Benzo(a)pyrene	91	46	4.2 (0.17)	11 (0.92)	1.1 (0.15)	2 J (2.7)	1.7 (0.16)	2 (0.18)	0.71 (0.19)	11 (0.76)	3.3 (0.16)
Benzo(b)fluoranthene	76	170	4.5 (0.13)	12 (0.69)	1.2 (0.11)	1.4 J (2)	1.8 (0.12)	2 (0.13)	0.91 (0.14)	11 (0.57)	3.9 (0.12)
Benzo(g,h,i)perylene	190000	180	1.8 (0.17)	4 (0.18)	0.62 (0.15)	1.9 J (2.7)	0.67 (0.16)	1.1 (0.18)	0.54 (0.19)	3.6 (0.15)	1.6 (0.16)
Chrysene	760	230	3.7 (0.13)	8.1 (0.14)	0.93 (0.11)	6.2 (2)	1.8 (0.12)	1.7 (0.13)	0.8 (0.14)	6.7 (0.11)	3.2 (0.12)
Fluorene	130000	3800	4.2 (0.21)	6.3 (0.23)	0.36 (0.18)	7.7 (3.4)	0.63 (0.19)	1.1 (0.22)	0.2 J (0.24)	4.4 (0.19)	2.6 (0.2)
Naphthalene	66	25	2.4 (0.042)	5.8 (0.046)	0.62 (0.037)	1.9 (0.68)	0.86 (0.039)	1.4 (0.044)	2.3 (0.048)	3 (0.038)	2 (0.041)
Phenanthrene	190000	10000	14 (0.63)	28 (0.69)	0.96 (0.11)	23 (2)	2.3 (0.12)	0.83 (0.13)	0.79 (0.14)	16 (0.57)	6.6 (0.12)
Pyrene	96000	2200	6.8 (0.13)	20 (0.69)	1.2 (0.11)	13 (2)	3.1 (0.12)	2.6 (0.13)	1 (0.14)	15 (0.57)	6.5 (0.12)
Metals											
Lead	1000	450	77.5 (5)	119 (5.55)	161 (4.46)	<u>560 (5.53)</u>	44.4 (4.66)	58 (5.19)	319 (5.71)	153 (4.6)	133 (4.92)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
J - Estimated Concentration

Table 6
Summary of Soil Analytical Results (GP R 225)
Tank Group 08
Bellwether District Holdings, LLC , Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	GPR225-01	GPR225-02	GPR225-03	GPR225-04	GPR225-05	GPR225-06	GPR225-07	GPR225-08	GPR225-09	GPR225-10	GPR225-11	GPR225-12
Field Sample ID			GPR225-01-SS01	GPR225-02-SS01	GPR225-03-SS01	GPR225-04-SS01	GPR225-05-SS01	GPR225-06-SS01	GPR225-07-SS01	GPR225-08-SS01	GPR225-09-SS01	GPR225-10-SS01	GPR225-11-SS01	GPR225-12-SS01
Collection Depth (ft bgs)			3.5 - 4.0	2.5 - 3.0	2.0 - 2.5	2.5 - 3.0	2.5 - 3.0	3.5 - 4.0	3.0 - 3.5	3.0 - 3.5	2.0 - 2.5	1.5 - 2.0	2.5 - 3.0	3.0 - 3.5
Sample Method			Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Date			4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024	4/23/2024
Comments														
Volatile Organic Compounds														
Benzene	280	0.5	ND (0.00057)	ND (0.00059)	ND (0.00056)	ND (0.00062)	ND (0.00054)	ND (0.00068)	ND (0.00064)	ND (0.00054)	ND (0.00074)	0.11 J (0.32)	0.016 J (0.038)	0.36 (0.047)
Cumene	10000	2500	ND (0.0011)	ND (0.0012)	0.01 (0.0011)	0.00066 J (0.0012)	ND (0.0011)	ND (0.0014)	ND (0.0013)	0.0013 (0.0011)	0.0005 J (0.0015)	6.6 (0.64)	1.1 (0.077)	1.5 (0.094)
1,2-Dibromoethane	3.7	0.005	ND (0.00057)	ND (0.00059)	ND (0.00056)	ND (0.00062)	ND (0.00054)	ND (0.00068)	ND (0.00064)	ND (0.00054)	ND (0.00074)	ND (0.32)	ND (0.038)	ND (0.047)
1,2-Dichloroethane	85	0.5	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0014)	ND (0.0013)	ND (0.0011)	ND (0.0015)	ND (0.64)	ND (0.077)	ND (0.094)
Ethyl Benzene	880	70	ND (0.0011)	ND (0.0012)	0.00019 J (0.0011)	0.0002 J (0.0012)	ND (0.0011)	ND (0.0014)	ND (0.0013)	0.00021 J (0.0011)	ND (0.0015)	0.2 J (0.64)	0.053 J (0.077)	0.18 (0.094)
Methyl tert-butyl ether	8500	2	ND (0.0023)	ND (0.0024)	ND (0.0022)	ND (0.0025)	ND (0.0021)	ND (0.0027)	ND (0.0026)	ND (0.0022)	ND (0.003)	ND (1.3)	ND (0.15)	ND (0.19)
Toluene	10000	100	ND (0.0011)	ND (0.0012)	0.00067 J (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0014)	ND (0.0013)	ND (0.0011)	ND (0.0015)	ND (0.64)	0.11 (0.077)	1.2 (0.094)
1,2,4-Trimethylbenzene	4700	300	ND (0.0023)	ND (0.0024)	0.0086 (0.0022)	0.00057 J (0.0025)	ND (0.0021)	ND (0.0027)	ND (0.0026)	0.00067 J (0.0022)	0.0019 J (0.003)	0.5 J (1.3)	0.078 J (0.15)	0.3 (0.19)
1,3,5-Trimethylbenzene	4700	93	ND (0.0023)	ND (0.0024)	0.0025 (0.0022)	0.00027 J (0.0025)	ND (0.0021)	ND (0.0027)	ND (0.0026)	0.00041 J (0.0022)	0.00043 J (0.003)	ND (1.3)	0.023 J (0.15)	0.11 J (0.19)
Xylenes (total)	7900	1000	ND (0.0011)	0.0044 (0.0012)	0.0059 (0.0011)	0.0016 J (0.0012)	ND (0.0011)	ND (0.0014)	ND (0.0013)	0.0018 J (0.0011)	0.0035 J (0.0015)	1.1 J (0.64)	0.18 J (0.077)	2.2 (0.094)
Semivolatile Organic Compounds														
Anthracene	190000	350	0.21 (0.13)	1.9 (0.14)	4.6 (0.12)	3.7 (0.14)	0.39 (0.12)	4.2 (0.14)	0.18 (0.14)	7.4 (0.13)	0.9 (0.16)	2.3 (0.12)	2.7 (0.68)	1.2 (0.63)
Benzo(a)anthracene	130	340	0.46 (0.13)	5.2 (0.14)	5.5 (0.12)	4.4 (0.14)	3 (0.12)	4.2 (0.14)	0.94 (0.14)	8.1 (0.13)	4 (0.16)	2.9 (0.12)	3.8 (0.68)	0.79 (0.63)
Benzo(a)pyrene	91	46	0.46 (0.17)	6.1 (0.19)	4.7 (0.17)	3.4 (0.18)	3.2 (0.16)	3.4 (0.19)	1.4 (0.19)	6.3 (0.17)	4 (0.21)	2.3 (0.16)	3.1 (0.9)	0.66 J (0.84)
Benzo(b)fluoranthene	76	170	0.49 (0.13)	6.6 (0.14)	5.3 (0.12)	3.6 (0.14)	3.5 (0.12)	3.5 (0.14)	1.5 (0.14)	7 (0.13)	4.4 (0.16)	2.7 (0.12)	3.5 (0.68)	0.7 (0.63)
Benzo(g,h,i)perylene	190000	180	0.24 (0.17)	3.6 (0.19)	2.4 (0.17)	1.5 (0.18)	1.6 (0.16)	1.6 (0.19)	0.94 (0.19)	2.8 (0.17)	2 (0.21)	1.2 (0.16)	1.7 (0.9)	0.47 J (0.84)
Chrysene	760	230	0.43 (0.13)	5.3 (0.14)	5.2 (0.12)	3.4 (0.14)	2.5 (0.12)	4.4 (0.14)	0.92 (0.14)	6.8 (0.13)	3.7 (0.16)	2.4 (0.12)	3.4 (0.68)	1.4 (0.63)
Fluorene	130000	3800	0.6 (0.22)	0.83 (0.23)	5 (0.21)	3.1 (0.23)	0.14 J (0.2)	4.5 (0.24)	0.069 J (0.24)	6.7 (0.21)	1.2 (0.26)	2.7 (0.2)	3 (1.1)	1.4 (1)
Naphthalene	66	25	0.45 (0.043)	3.4 (0.047)	3.5 (0.042)	1.2 (0.045)	1.1 (0.04)	1.2 (0.047)	0.7 (0.047)	2.7 (0.042)	2.9 (0.053)	1.3 (0.04)	1.5 (0.22)	0.84 (0.21)
Phenanthrene	190000	10000	1.8 (0.13)	3.6 (0.14)	21 (0.62)	16 (0.68)	0.28 (0.12)	19 (0.71)	0.19 (0.14)	30 (1.3)	1.1 (0.16)	7.2 (0.12)	7.9 (0.68)	3.9 (0.63)
Pyrene	96000	2200	0.9 (0.13)	6 (0.14)	17 (0.62)	6.5 (0.14)	2.7 (0.12)	13 (0.71)	0.86 (0.14)	16 (1.3)	5.4 (0.16)	4.4 (0.12)	6.2 (0.68)	2.6 (0.63)
Metals														
Lead	1000	450	49.5 (5.13)	230 (5.6)	149 (4.96)	81.1 (5.32)	74.7 (4.82)	142 (5.56)	109 (5.5)	80.6 (5.05)	174 (6.34)	77 (4.74)	84.2 (5.2)	2090 (4.91)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
J - Estimated Concentration

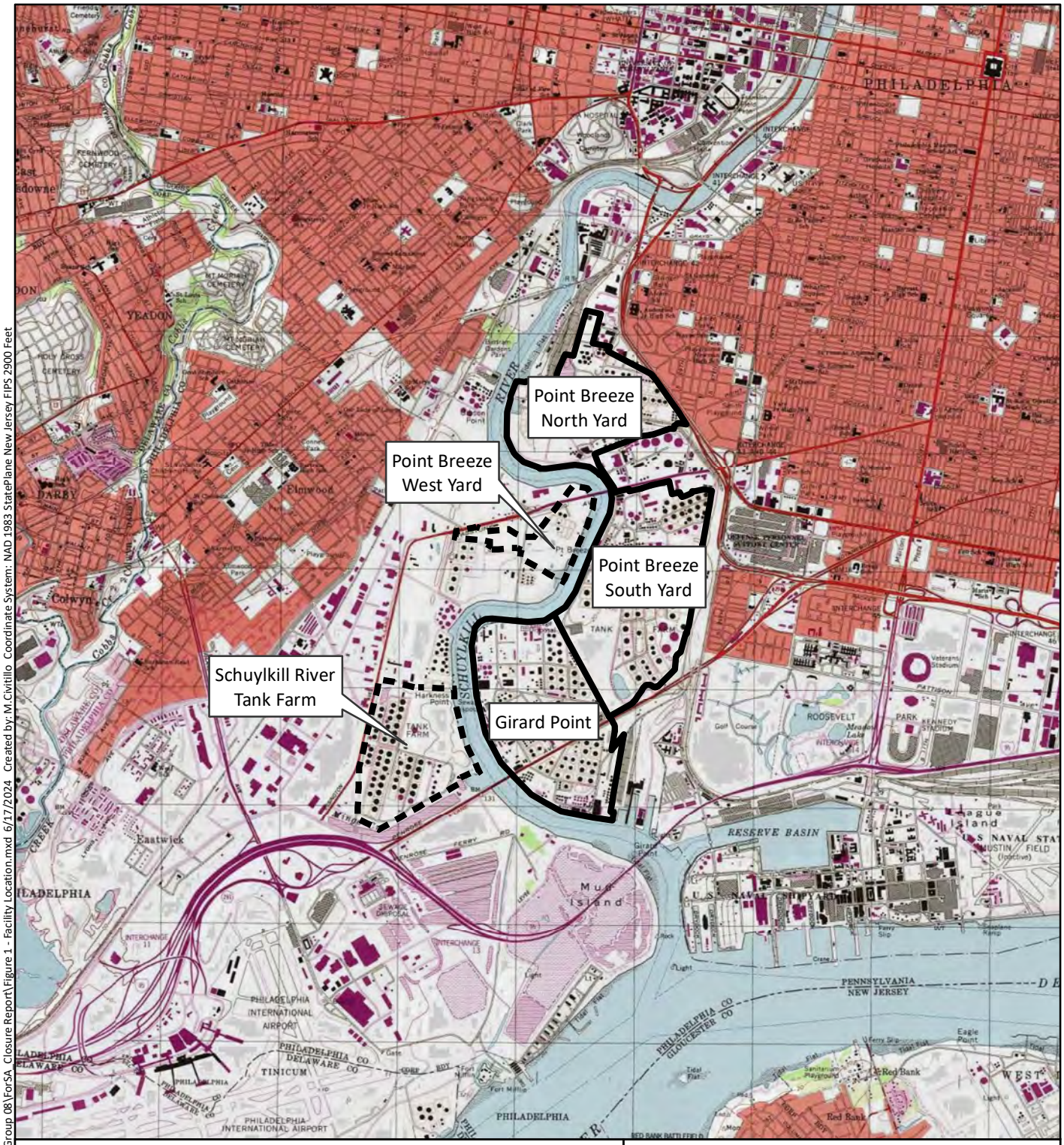
Table 7
Summary of Soil Analytical Results (GP R 227)
Tank Group 08
Bellwether District Holdings, LLC , Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	GPR227-01	GPR227-02	GPR227-03	GPR227-04	GPR227-05	GPR227-06	GPR227-07	GPR227-08	GPR227-09	GPR227-10	GPR227-11	GPR227-12
Field Sample ID			GPR227-01-SS01	GPR227-02-SS01	GPR227-03-SS01	GPR227-04-SS01	GPR227-05-SS01	GPR227-06-SS01	GPR227-07-SS01	GPR227-08-SS01	GPR227-09-SS01	GPR227-10-SS01	GPR227-11-SS01	GPR227-12-SS01
Collection Depth (ft bgs)			2.5 - 3.0	1.5 - 2.0	1.0 - 1.5	3.0 - 3.5	2.5 - 3.0	3.0 - 3.5	4.5 - 5.0	3.0 - 3.5	2.5 - 3.0	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0
Sample Method			Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Date			4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024
Comments														
Volatile Organic Compounds														
Benzene	280	0.5	0.022 J (0.04)	ND (0.00064)	0.00015 J (0.00046)	ND (0.00054)	ND (0.00052)	ND (0.00053)	0.00032 J (0.00055)	ND (0.00053)	0.00022 J (0.00057)	ND (0.03)	0.0025 (0.00045)	0.031 J (0.032)
Cumene	10000	2500	0.45 (0.08)	ND (0.0013)	0.00038 J (0.00092)	ND (0.0011)	0.0032 (0.001)	ND (0.0011)	0.047 (0.0011)	0.00023 J (0.001)	0.0083 (0.0011)	0.67 (0.06)	0.027 (0.001)	0.74 (0.064)
1,2-Dibromoethane	3.7	0.005	ND (0.04)	ND (0.00064)	ND (0.00046)	ND (0.00054)	ND (0.00052)	ND (0.00053)	ND (0.00055)	ND (0.00053)	ND (0.00057)	ND (0.03)	ND (0.00045)	ND (0.032)
1,2-Dichloroethane	85	0.5	ND (0.08)	ND (0.0013)	ND (0.00092)	ND (0.0011)	ND (0.001)	ND (0.0011)	ND (0.0011)	ND (0.001)	ND (0.0011)	ND (0.06)	ND (0.0009)	ND (0.064)
Ethyl Benzene	880	70	0.079 J (0.08)	ND (0.0013)	ND (0.00092)	ND (0.0011)	ND (0.001)	ND (0.0011)	0.00052 J (0.0011)	ND (0.001)	0.00045 J (0.0011)	0.014 J (0.06)	0.011 (0.001)	0.012 J (0.064)
Methyl tert-butyl ether	8500	2	ND (0.16)	ND (0.0025)	ND (0.0018)	ND (0.0022)	ND (0.0021)	ND (0.0021)	ND (0.0022)	ND (0.0021)	ND (0.0023)	ND (0.12)	ND (0.0018)	ND (0.13)
Toluene	10000	100	0.16 (0.08)	ND (0.0013)	0.00075 J (0.00092)	ND (0.0011)	ND (0.001)	ND (0.0011)	0.001 J (0.0011)	ND (0.001)	ND (0.0011)	ND (0.06)	0.014 (0.001)	ND (0.064)
1,2,4-Trimethylbenzene	4700	300	1.1 (0.16)	ND (0.0025)	ND (0.0018)	ND (0.0022)	0.0028 (0.0021)	ND (0.0021)	0.019 (0.0022)	ND (0.0021)	0.017 (0.0023)	0.031 J (0.12)	0.062 (0.0021)	0.053 J (0.13)
1,3,5-Trimethylbenzene	4700	93	0.26 (0.16)	ND (0.0025)	0.0003 J (0.0018)	ND (0.0022)	ND (0.0021)	ND (0.0021)	0.001 J (0.0022)	ND (0.0021)	0.0073 (0.0023)	ND (0.12)	0.02 (0.0021)	0.027 J (0.13)
Xylenes (total)	7900	1000	0.59 (0.08)	ND (0.0013)	0.0033 J (0.00092)	ND (0.0011)	0.0041 J (0.001)	ND (0.0011)	0.048 (0.0011)	ND (0.001)	0.0092 (0.0011)	0.063 J (0.06)	0.053 (0.001)	0.092 J (0.064)
Semivolatile Organic Compounds														
Anthracene	190000	350	5.8 (0.68)	ND (0.14)	2 (0.11)	0.86 (0.12)	3 (0.31)	0.62 (0.12)	4.2 (0.7)	6.3 (0.12)	3.3 (0.35)	0.74 (0.11)	2.2 (0.22)	1.8 (0.11)
Benzo(a)anthracene	130	340	12 (0.68)	0.11 J (0.14)	4.1 (0.11)	4.2 (0.12)	3 (0.31)	1.4 (0.12)	4.3 (0.7)	21 (2.5)	8.4 (0.35)	2.1 (0.11)	8.2 (0.22)	4.1 (0.11)
Benzo(a)pyrene	91	46	14 (0.91)	0.12 J (0.19)	4.4 (0.15)	4.5 (0.16)	3.1 (0.42)	1.4 (0.17)	3.5 (0.93)	17 (3.3)	6.8 (0.47)	2.5 (0.15)	7.7 (0.3)	3.8 (0.15)
Benzo(b)fluoranthene	76	170	15 (0.68)	0.15 (0.14)	5.2 (0.11)	5.6 (0.12)	3.3 (0.31)	1.6 (0.12)	3.4 (0.7)	19 (2.5)	7 (0.35)	2.8 (0.11)	8.6 (0.22)	5.2 (0.11)
Benzo(g,h,i)perylene	190000	180	7.4 (0.91)	0.065 J (0.19)	2.3 (0.15)	2.2 (0.16)	2 (0.42)	0.96 (0.17)	1.6 (0.93)	7.1 (0.16)	3.2 (0.47)	1.2 (0.15)	3.3 (0.3)	1.5 (0.15)
Chrysene	760	230	12 (0.68)	0.096 J (0.14)	3.8 (0.11)	3.7 (0.12)	3.7 (0.31)	1.7 (0.12)	5.7 (0.7)	16 (2.5)	10 (0.35)	1.9 (0.11)	8.1 (0.22)	3.7 (0.11)
Fluorene	130000	3800	5.4 (1.1)	ND (0.23)	1.3 (0.19)	0.47 (0.2)	2.4 (0.52)	0.51 (0.21)	4.2 (1.2)	11 (4.1)	1.8 (0.58)	2.4 (0.19)	1.2 (0.37)	2.6 (0.19)
Naphthalene	66	25	3.8 (0.23)	0.073 (0.047)	2 (0.038)	1.7 (0.04)	0.56 (0.1)	0.81 (0.042)	1.5 (0.23)	5 (0.041)	1.2 (0.12)	0.72 (0.037)	4.3 (0.075)	1.1 (0.038)
Phenanthrene	190000	10000	19 (0.68)	ND (0.14)	3.3 (0.11)	1.8 (0.12)	6.4 (0.31)	2.2 (0.12)	15 (0.7)	44 (2.5)	11 (0.35)	2.2 (0.11)	5.1 (0.22)	6.6 (0.11)
Pyrene	96000	2200	18 (0.68)	0.11 J (0.14)	5.3 (0.11)	4.9 (0.12)	6.3 (0.31)	2.5 (0.12)	9.5 (0.7)	34 (2.5)	14 (0.35)	2.1 (0.11)	10 (0.22)	5.9 (0.11)
Metals														
Lead	1000	450	162 (4.55)	14.6 (5.45)	74.6 (4.38)	48.5 (4.82)	32.1 (4.35)	497 (4.97)	114 (4.92)	92.5 (4.95)	118 (4.69)	49.3 (4.27)	55.4 (4.42)	30.2 (4.52)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
J - Estimated Concentration

Figures



0 2,000 4,000 6,000 Feet

1 inch = 4,000 feet

N

Legend

Subject to AST Closure Plan

Not Subject to AST Closure Plan

Base Map: USGS Philadelphia 1994 7.5 Minute Quadrangle.

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

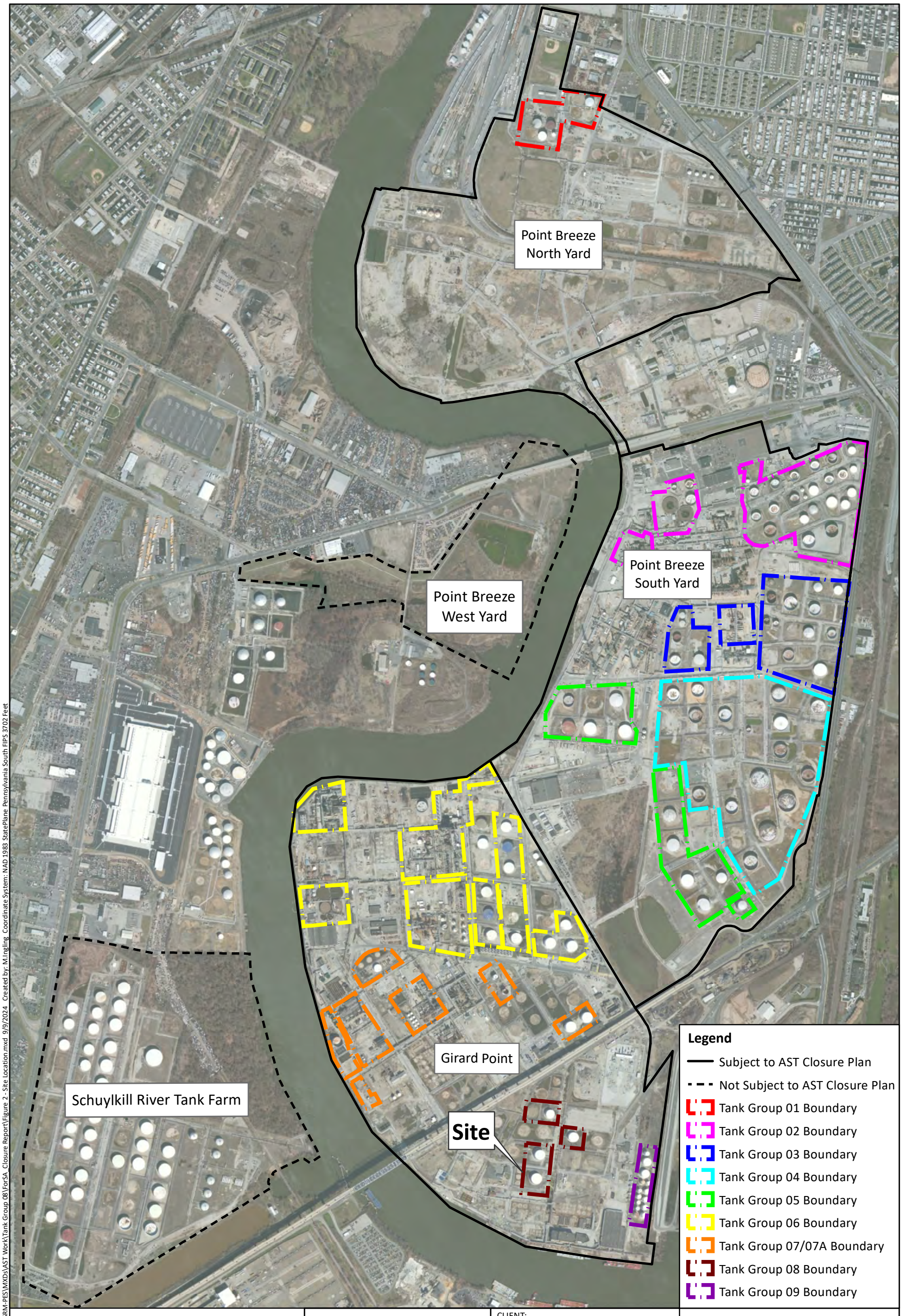
PROJECT: Aboveground Storage Tank Closure

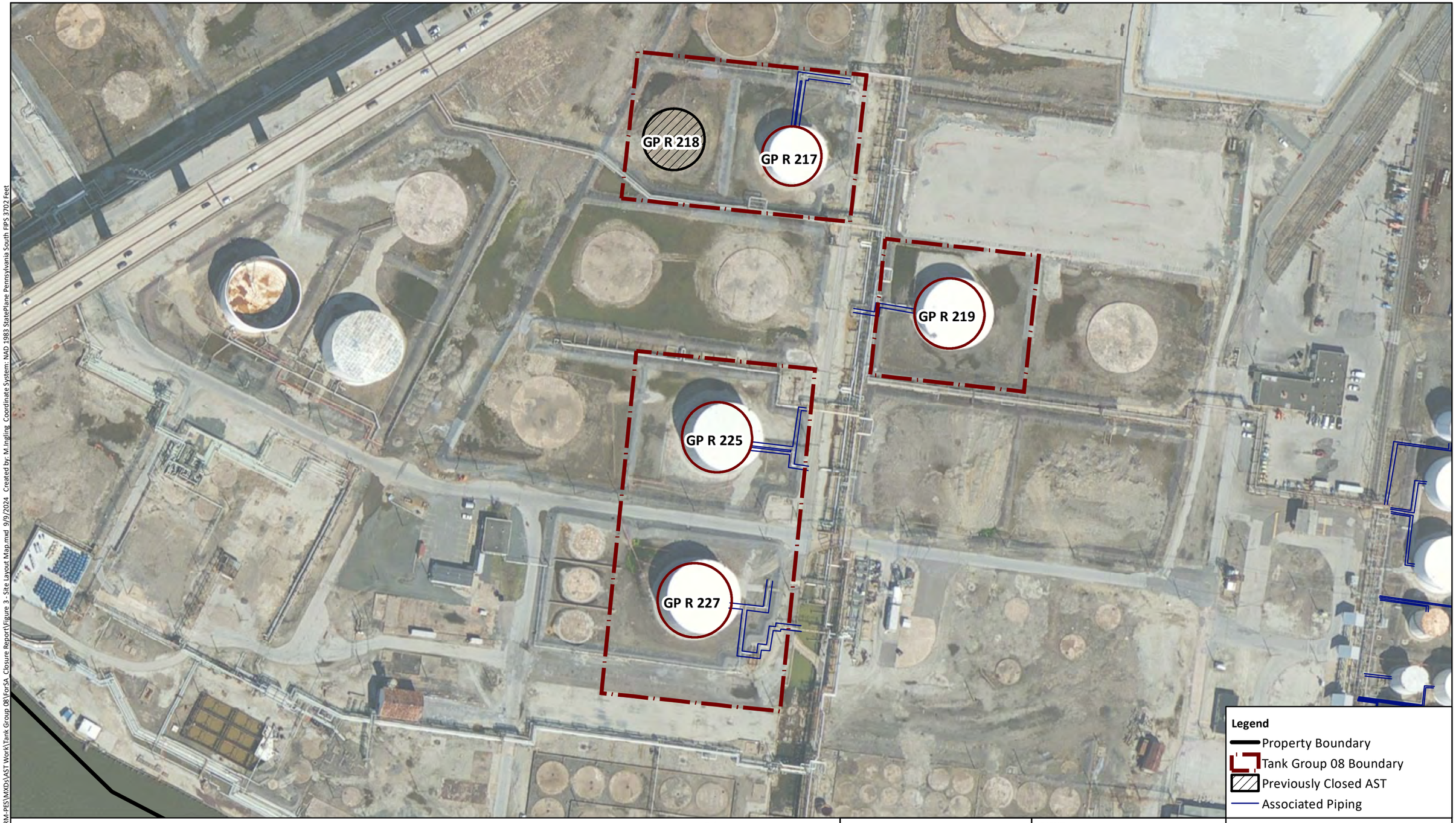
PROJECT NUMBER: P044.001.002

Facility Location

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 1 - Facility Location.mxd 6/17/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet


Point Breeze North Yard
Point Breeze West Yard
Point Breeze South Yard
Girard Point
Schuylkill River Tank Farm
Site
Legend
Subject to AST Closure Plan
Not Subject to AST Closure Plan
Tank Group 01 Boundary
Tank Group 02 Boundary
Tank Group 03 Boundary
Tank Group 04 Boundary
Tank Group 05 Boundary
Tank Group 06 Boundary
Tank Group 07/07A Boundary
Tank Group 08 Boundary
Tank Group 09 Boundary
N
0 500 1,000 1,500
Feet
1 inch = 1,000 feet
Notes: Aerial imagery source Maxar 10/19/2019
SAFETY FIRST
terraphase engineering
CLIENT: Bellwether District Holdings, LLC
PROJECT: Aboveground Storage Tank Closure
PROJECT NUMBER: P044.001.002
Site Location
Figure 2
File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 2 - Site Location.mxd 9/9/2024 Created by: M.Ingling Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Legend
- Property Boundary
- Tank Group 08 Boundary
- Previously Closed AST
- Associated Piping

Note:
Aerial imagery source Maxar 10/19/2019

0 150 300 Feet

1 inch = 150 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

PROJECT: Aboveground Storage Tank Closure

PROJECT NUMBER: P044.001.002

Site Layout Map

Figure 3

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 3 - Site Layout Map.mxd 9/9/2024 Created by: M.Ingling Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

AOI 6

AOI 5

GP R 218

GP R 217

GP R 219

GP R 225

GP R 227

Legend

- Property Boundary
- Tank Group 07 Boundary
- Tank Group 08 Boundary
- Tank Group 09 Boundary
- Previously Closed AST
- Evergreen AOI Boundary
- Associated Piping

Evergreen Soil Sample Location

- No Exceedances
- Exceeds SGW MSC
- Exceeds DC MSC

Abbreviations:
DC -- Direct Contact
MSC -- Medium Specific Concentrations
SGW -- Soil-to-Groundwater

Notes:
Only lead results are shown for locations within AOI 5 and range from April 4, 2004 through April 7, 2021.
Aerial imagery source NearMap (June 16, 2024)

0 320 640 Feet

1 inch = 320 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

PROJECT: Aboveground Storage Tank Closure

PROJECT NUMBER: P044.001.002

Historical Lead Surface Soil Analytical Results

Figure 4a

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 4a - Historical Surface Soil Analytical Results.mxd 9/11/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

AOI 6

AOI 5

GP R 218

GP R 217

GP R 219

GP R 225

GP R 227

Legend

- Property Boundary
- Tank Group 07 Boundary
- Tank Group 08 Boundary
- Tank Group 09 Boundary
- Previously Closed AST
- Evergreen AOI Boundary
- Associated Piping

Evergreen Soil Sample Location

- No Exceedances
- Exceeds SGW MSC
- Exceeds DC MSC

Abbreviations:
DC -- Direct Contact
MSC -- Medium Specific Concentrations
SGW -- Soil-to-Groundwater

Notes:
Only lead results are shown for locations within AOI 5 and range from January 23, 2012 through June 27, 2014.
Aerial imagery source NearMap (June 16, 2024)

0 320 640 Feet

1 inch = 320 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

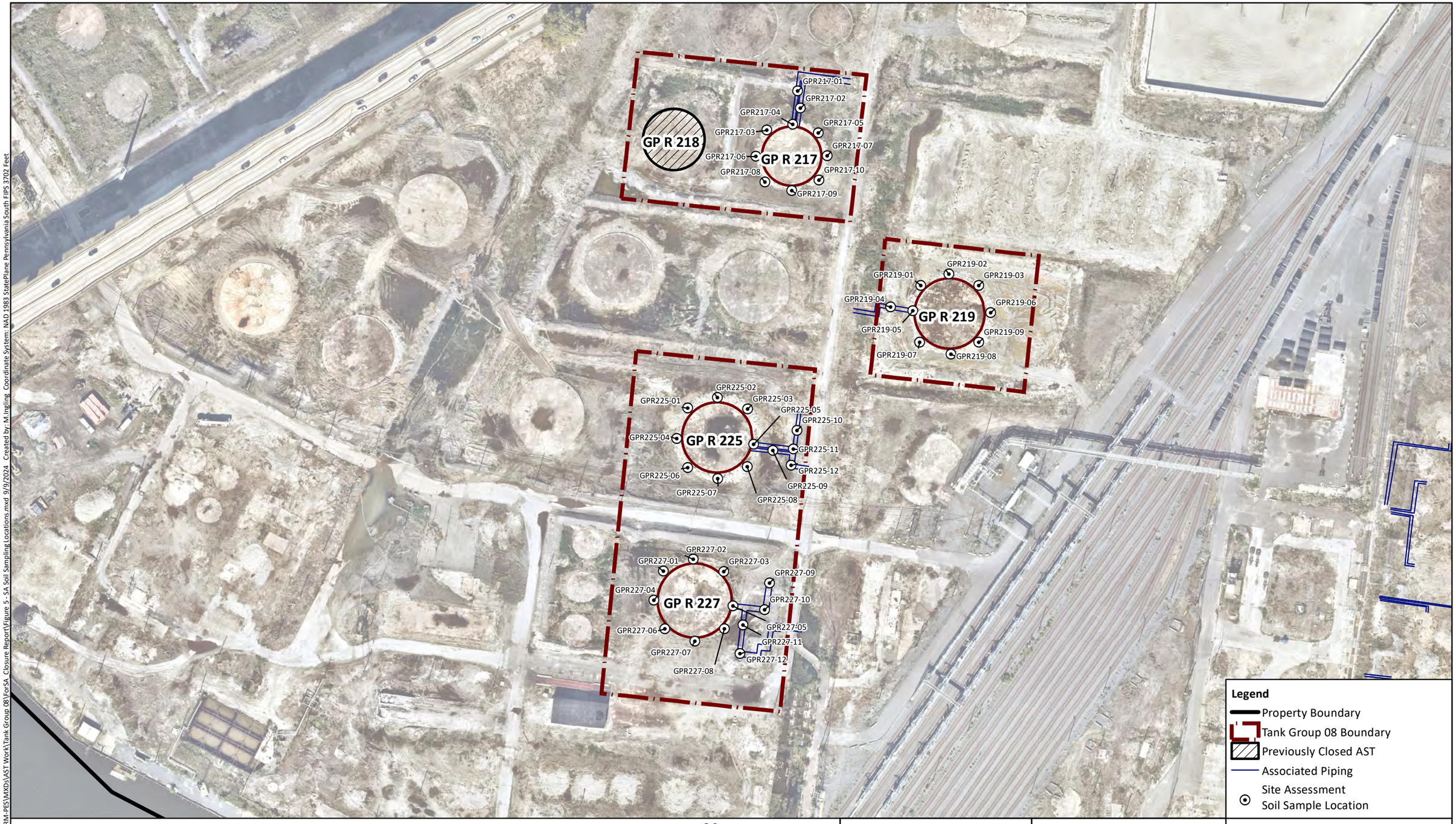
PROJECT: Aboveground Storage Tank Closure

PROJECT NUMBER: P044.001.002

Historical Lead Subsurface Soil Analytical Results

Figure 4b

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 4b - Historical Subsurface Soil Analytical Results.mxd 9/11/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Note:
Aerial imagery source NearMap (September 19, 2023)

0 150 300 Feet

1 inch = 150 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

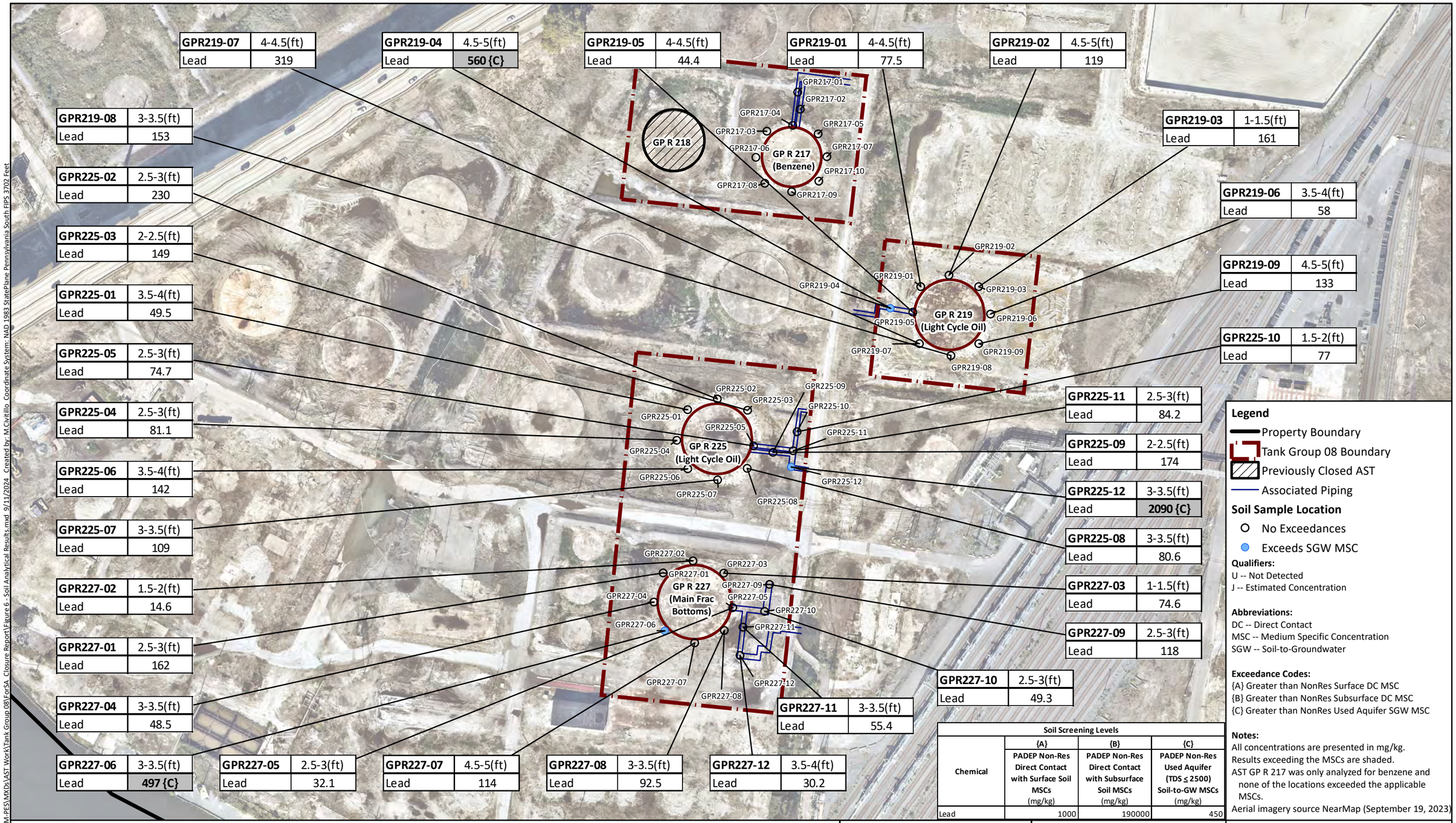
PROJECT: Aboveground Storage Tank Closure

PROJECT NUMBER: P044.001.002

Site Assessment Soil Sampling Locations

Figure 5

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 5 - SA Soil Sampling Locations.mxd 9/9/2024 Created by: M.Ingling Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet


GPR219-07 4-4.5(ft) Lead 319
GPR219-04 4.5-5(ft) Lead 560 {C}
GPR219-05 4-4.5(ft) Lead 44.4
GPR219-01 4-4.5(ft) Lead 77.5
GPR219-02 4.5-5(ft) Lead 119
GPR219-08 3-3.5(ft) Lead 153
GPR225-02 2.5-3(ft) Lead 230
GPR225-03 2-2.5(ft) Lead 149
GPR225-01 3.5-4(ft) Lead 49.5
GPR225-05 2.5-3(ft) Lead 74.7
GPR225-04 2.5-3(ft) Lead 81.1
GPR225-06 3.5-4(ft) Lead 142
GPR225-07 3-3.5(ft) Lead 109
GPR227-02 1.5-2(ft) Lead 14.6
GPR227-01 2.5-3(ft) Lead 162
GPR227-04 3-3.5(ft) Lead 48.5
GPR227-06 3-3.5(ft) Lead 497 {C}
GPR227-05 2.5-3(ft) Lead 32.1
GPR227-07 4.5-5(ft) Lead 114
GPR227-08 3-3.5(ft) Lead 92.5
GPR227-12 3.5-4(ft) Lead 30.2
GPR227-11 3-3.5(ft) Lead 55.4
GPR227-10 2.5-3(ft) Lead 49.3
GPR219-03 1-1.5(ft) Lead 161
GPR219-06 3.5-4(ft) Lead 58
GPR219-09 4.5-5(ft) Lead 133
GPR225-10 1.5-2(ft) Lead 77
GPR225-11 2.5-3(ft) Lead 84.2
GPR225-09 2-2.5(ft) Lead 174
GPR225-12 3-3.5(ft) Lead 2090 {C}
GPR225-08 3-3.5(ft) Lead 80.6
GPR227-03 1-1.5(ft) Lead 74.6
GPR227-09 2.5-3(ft) Lead 118
GP R 218
GP R 217 (Benzene)
GP R 219 (Light Cycle Oil)
GP R 225 (Light Cycle Oil)
GP R 227 (Main Frac Bottoms)
GPR217-01
GPR217-02
GPR217-03
GPR217-04
GPR217-05
GPR217-06
GPR217-07
GPR217-08
GPR217-09
GPR217-10
GPR219-01
GPR219-02
GPR219-03
GPR219-04
GPR219-05
GPR219-06
GPR219-07
GPR219-08
GPR219-09
GPR225-01
GPR225-02
GPR225-03
GPR225-04
GPR225-05
GPR225-06
GPR225-07
GPR225-08
GPR225-09
GPR225-10
GPR225-11
GPR225-12
GPR227-01
GPR227-02
GPR227-03
GPR227-04
GPR227-05
GPR227-06
GPR227-07
GPR227-08
GPR227-09
GPR227-10
GPR227-11
GPR227-12
Legend
Property Boundary
Tank Group 08 Boundary
Previously Closed AST
Associated Piping
Soil Sample Location
No Exceedances
Exceeds SGW MSC
Qualifiers:
U -- Not Detected
J -- Estimated Concentration
Abbreviations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
SGW -- Soil-to-Groundwater
Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer SGW MSC
Notes:
All concentrations are presented in mg/kg.
Results exceeding the MSCs are shaded.
AST GP R 217 was only analyzed for benzene and none of the locations exceeded the applicable MSCs.
Aerial imagery source NearMap (September 19, 2023)
Soil Screening Levels
Chemical
{A} PADEP Non-Res Direct Contact with Surface Soil MSCs (mg/kg)
{B} PADEP Non-Res Direct Contact with Subsurface Soil MSCs (mg/kg)
{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)
Lead 1000 190000 450
Sample Name
Sample Depth
Result/MSC Exceedance
0 150 300 Feet
1 inch = 150 feet
N
SAFETY FIRST
terraphase engineering
CLIENT: Bellwether District Holdings, LLC
PROJECT: Aboveground Storage Tank Closure
PROJECT NUMBER: P044.001.002
Soil Analytical Results
Figure 6
File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForSA_Closure Report\Figure 6 - Soil Analytical Results.mxd 9/11/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Appendix A

Release Notification

terraphase engineering

May 13, 2024

Ms. Chelsea Fazzino
Pennsylvania Department of Environmental Protection
Southeast Regional Office
2 East Main Street
Norristown, PA 19401

sent via electronic mail: cfazzino@pa.gov

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC**
PADEP Notification of Release Form – Tank Group 08
PADEP Facility ID #51-33624 – Girard Point Refinery
Incident No. 60059
Initial Notification
3144 W. Passyunk Avenue, Philadelphia, PA 19141

Dear Chelsea:

Enclosed please find a copy of the Pennsylvania Department of Environmental Protection's (PADEP) Notification of Release Form for the Philadelphia Energy Solutions Refining and Marketing, LLC (PESRM) Girard Point Refinery. The PADEP was notified via telephone on May 2, 2024, that Aboveground Storage Tank (AST) Site Assessment sampling, performed in Tank Group 08, identified constituents in soil at concentrations greater than the applicable PADEP Medium Specific Concentrations (MSCs). Specifically, concentrations greater than applicable MSCs were identified at tank GP R 219 (001A), GP R 225 (015A), and GP R 227 (016A). This notification is the initial incident reported in Tank Group 08 (Incident # 60059).

Please contact me at kevin.long@terraphase.com / 609-236-8171 x93 or Nick Scala at nick.scala@terraphase.com / 609-236-8171 x92 with any questions.

Sincerely,

for Terraphase Engineering Inc.

Kevin Long
Principal Consultant

Nicholas Scala, PG, LSRP
Principal Geologist

KL/NS:cs

Enclosure: PADEP Notification of Release Form (Tank Group 08)

cc: Amy Piccone (apiccone@hilcoglobal.com)

Stephanie Eggert (seggert@hilcoglobal.com)
Charles Barksdale (cbarksdale@hilcoglobal.com)
Bob Armstrong (rarmstrong@NorthStar.com)
PADEP – (ra-serotanks@pa.gov)
Ralph DiPietro (Philadelphia L & I – ralph.dipietro@phila.gov)

NOTIFICATION OF RELEASE *(Owners and Operators)*

FACILITY I.D. NUMBER 51 - 33624

☒ Initial
☐ Follow-Up

NOTIFICATION OF CONTAMINATION *(Certified Installers and Inspectors)*

INFORMATION FOR OWNERS AND OPERATORS (O/O)

The Storage Tank Program's Corrective Action Process (CAP) regulations establish requirements for owners and operators of storage tank systems and storage tank facilities to report confirmed releases and, in certain cases, suspected releases.

Suspected Release Reporting: Upon the completion of a suspected release investigation from which it could not be determined whether a release has occurred, the owner or operator must, within 15 days of the indication of the suspected release, complete and submit this form to the appropriate regional office of the Department (Subsection 245.304(c)(2)).

Confirmed Release Reporting: The owner or operator must notify the appropriate regional office of the Department by telephone as soon as practicable, but no later than 24 hours, after the confirmation of a release (Subsections 245.305(a) and (b)). Within 15 days of that telephone notification, the owner or operator must complete and submit this form to the appropriate regional office of the Department, to each municipality in which the release occurred, and to each municipality where that release has impacted environmental media or water supplies, buildings, or sewer or other utility lines (Subsections 245.305(c) and (e)). And if new impacts to environmental media or water supplies, buildings, or sewer or other utility lines are discovered after that initial written notification, the owner or operator must, within 15 days of the discovery of the new impact, complete and submit this form to the Department and to each impacted municipality (Subsections 245.305(d) and (e)).

INFORMATION FOR CERTIFIED INSTALLERS AND INSPECTORS (I/I)

In accordance with the Storage Tank Program's certification regulations, certified installers and inspectors must complete and submit this form to the Department within 48 hours of observing any of the following while performing services as a certified installer or inspector: a release of a regulated substance; suspected or confirmed contamination of soil, surface or groundwater from regulated substances; or a regulated substance in a containment structure or facility (Subsections 245.132(a)(4) and 245.132(a)(6)).

INSTRUCTIONS

Record the storage tank facility I.D. number at the top right-hand corner of each page of this form.

Owners and Operators (O/O): Indicate if this is an initial or follow-up notification by marking the appropriate box found in the top right-hand corner of this page.

- To report a Suspected Release, complete all information in Sections I, II, IIIA, IIIC, VI, VIII and IX.
- To report a Confirmed Release, complete all information in Sections I, II, IIIA, IIIB, IIIC, IV, V, VIII and IX.

Certified Installers and Inspectors (I/I): Complete all information in Sections I, II, IIIA, IIIC, VI or VII, VIII, and IX. Attach a copy of the failed, valid tightness test results, if applicable.

PLEASE SEND COMPLETED ORIGINAL FORM TO:
PA Department of Environmental Protection
Environmental Cleanup and Brownfields Program
Storage Tank Section
(and the appropriate address below, depending on where the FACILITY is located)

Northwest Region	North-central Region	Northeast Region
230 Chestnut Street Meadville, PA 16335-3481 PHONE: 814-332-6945 / 800-373-3398 FAX: 814-332-6121	208 W. Third Street, Suite 101 Williamsport, PA 17701 PHONE: 570-327-3636 FAX: 570-327-3420	2 Public Square Wilkes-Barre, PA 18701-1915 PHONE: 570-826-2511 FAX: 570-820-4907
Counties: Armstrong, Butler, Clarion, Crawford, Elk, Erie, Forest, Indiana, Jefferson, Lawrence, McKean, Mercer, Venango, Warren	**Counties:** Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union	**Counties:** Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming
Southwest Region	**South-central Region**	**Southeast Region**
400 Waterfront Drive Pittsburgh, PA 15222 PHONE: 412-442-4000 FAX: 412-442-4194	909 Elmerton Avenue Harrisburg, PA 17110 PHONE: 717-705-4705 / 800-541-2050 FAX: 717-705-4830	2 East Main Street Norristown, PA 19401 PHONE: 484-250-5900 FAX: 484-250-5961
Counties: Allegheny, Beaver, Cambria, Fayette, Greene, Somerset, Washington, Westmoreland	**Counties:** Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York	**Counties:** Bucks, Chester, Delaware, Montgomery, Philadelphia

I. FACILITY INFORMATION (Both O/O and I/I)

Facility Name: Philadelphia Refinery Girard Point
Facility I.D. Number: 51-33624
Street Address (P.O. Box not acceptable): 3144 W. Passyunk Avenue
City: Philadelphia
State: PA
Zip Code: 19141 - 5299
County: Philadelphia
Municipality: Philadelphia
Contact Person: Anne R. Garr
Telephone Number: (312) 796 - 6564

II. OWNER/OPERATOR INFORMATION (Both O/O and I/I)

Owner Name: Philadelphia Energy Solutions Refining and Marketing LLC
Address: 111 S. Wacker Dr, Suite 3000
City: Chicago
State: IL
Zip Code: 60606 -
Telephone Number: (312) 796 - 6564
Operator Name: Philadelphia Energy Solutions Refining and Marketing LLC
Telephone Number: (312) 796 - 6564

III. REGULATED SUBSTANCE INFORMATION

A. Type of Product(s) Involved (Mark All That Apply ☒): Both O/O and I/I		B. Quantity (Gallons) of Product(s) Released: O/O Only	C. Contamination Suspected [S] or Confirmed [C] (Mark All That Apply ☒): Both O/O and I/I	
Leaded Gasoline	☐		☐ [S]	☐ [C]
Unleaded Gasoline	☐		☐ [S]	☐ [C]
Aviation Gasoline	☐		☐ [S]	☐ [C]
Kerosene	☐		☐ [S]	☐ [C]
Jet Fuel	☐		☐ [S]	☐ [C]
Diesel Fuel	☐		☐ [S]	☐ [C]
New Motor Oil	☐		☐ [S]	☐ [C]
Used Motor Oil	☐		☐ [S]	☐ [C]
Fuel Oil No. 1	☐		☐ [S]	☐ [C]
Fuel Oil No. 2	☐		☐ [S]	☐ [C]
Fuel Oil No. 4	☐		☐ [S]	☐ [C]
Fuel Oil No. 5	☐		☐ [S]	☐ [C]
Fuel Oil No. 6	☐		☐ [S]	☐ [C]
Other (Specify) Light Cycle Oil, Main Frac Bottoms	☒	UNKNOWN	☐ [S]	☒ [C]
Unknown	☐		☐ [S]	☐ [C]

IV. CONFIRMED RELEASE INFORMATION (O/O Only)

Date Release was Confirmed: 5 (m) / 2 (d) / 2024 (y)

Date Owner/Operator Verbally Notified Appropriate Regional Office of Confirmed Release and Office Notified:
Date: 5 (m) / 2 (d) / 2024 (y) Office: Southeast Region

Date Owner/Operator Sent Copy of this Written Notification to Local Municipality(ies) and Name of Municipality(ies) Notified:
Date: 5 (m) / 13 (d) / 2024 (y) Municipality: Philadelphia
Date: ___ (m) / ___ (d) / ___ (y) Municipality: ___

Source (Mark All That Apply ☒):		How Discovered (Mark All That Apply ☒):		Environmental Media Affected and Impacts (Mark All That Apply ☒):	
Tank (DEP Assigned Nos. 001A, 015A, 016A)	☒	During Closure	☒	Soil	☒
Piping System (Aboveground Regulated)	☒	Lining Installation	☐	Sediment	☐
Piping System (Underground Regulated)	☐	Routine Leak Detection	☐	Surface Water	☐
Piping System (Non-Regulated)	☐	Third Party Inspection	☐	Ground Water	☐
Dispenser/Dispensing Equipment	☐	Tightness Testing Activities	☐	Bedrock	☐
Spill Prevention Equipment	☐	Visible Product or Odor Reports	☐	Water Supplies	☐
Submersible Turbine Pump Head/Fittings	☐	Water in Tank	☐	Vapors/Product in Buildings	☐
Containment/Sump Failure	☐	Construction	☐	Vapors/Product in Sewer/Utility Lines	☐
Other (Specify)	☐	Upgrade/Repair	☐	Ecological Receptors	☐
Unknown	☐				

Cause (Mark All That Apply ☒):			
Faulty Installation	☐	Supply Well Sample Results	☐
Corrosion	☐	Monitoring Well Sample Results	☐
Physical/Mechanical Failure	☐	Property Transfer	☐
Spill During Delivery	☐	Other (Specify) Site Assessment Sampling	☒
Overfill at Delivery	☐	Unknown	☐
Vehicle Gas Tank Overfill	☐		
Product Delivery Hose Rupture	☐		
Accident/Natural Disaster	☐		
Other (Specify) _____	☐		
Unknown	☒		

V. INTERIM REMEDIAL ACTIONS (O/O Only)

Indicate the Interim Remedial Actions Planned, Initiated or Completed (Mark All That Apply ☒):

	Planned	Initiated	Completed	Not Applicable
Regulated Substance Removed from Storage Tanks	☐	☐	☒	☐
Fire, Explosion and Safety Hazards Mitigated	☐	☐	☒	☐
Contaminated Soil Excavated	☐	☐	☐	☒
Free Product Recovered	☐	☐	☐	☒
Water Supplies Identified and Sampled	☐	☐	☐	☒
Temporary Water Supplies Provided	☐	☐	☐	☒
Other (Specify) _____	☐	☐	☐	☐

VI. SUSPECTED RELEASE / CONTAMINATION INFORMATION (Both O/O and I/I)

Date the Indication of a Suspected Release / Contamination was Observed: 5 (m) / 2 (d) / 2024 (y)

Indication of Suspected Release / Contamination (Mark All That Apply ☒):

- ☐ Unusual Level of Vapors
- ☐ Erratic Behavior of Product Dispensing Equipment
- ☐ Release Detection Results Indicate a Release
- ☐ Discovery of Holes in the Storage Tank
- ☐ Containment Sump Test Failure
- ☐ Spill Prevention Equipment Test Failure
- ☒ Other (Specify) Site Assessment Sampling Results

VII. CONFIRMED CONTAMINATION INFORMATION (I/I Only)

Date the Confirmed Contamination was Observed: 5 (m) / 2 (d) / 2024 (y)

Extent of Confirmed Contamination (Mark All That Apply ☒):

- ☐ Product Stained or Product Saturated Soil or Backfill
- ☐ Ponded Product
- ☐ Free Product or Sheen on Ponded Water
- ☐ Free Product or Sheen on the Ground Water Surface
- ☐ Free Product or Sheen on Surface Water
- ☒ Other (Specify) Site Assessment Sampling Results

VIII. ADDITIONAL INFORMATION (Both O/O and I/I)

Provide any additional, relevant, available information concerning the release or contamination. If reporting a confirmed release, include specific details about the source and cause of the release, the affected environmental media, and any impacts to water supplies, buildings, or sewer or other utility lines. Owners or Operators reporting a suspected release should describe what procedures were followed to investigate the indication(s) of the suspected release noted in Section VI. Provide both DEP-assigned and owner/operator-assigned tank number(s), where applicable. Use additional 8½" x 11" sheets of paper, if necessary.

Work is being performed at the Site in accordance with the Aboveground Storage Tank Closure Work Plan (AST Work Plan) (Terraphase 2021). The PADEP approved the AST Work Plan on April 23, 2021. Pursuant to the AST Work Plan, Site Assessment sampling is being performed in Tank Groups. This notification is provided to PADEP to report that the Site Assessment sampling performed in Tank Group 08 has identified chemical concentrations in soil at levels above applicable Statewide Health Medium Specific Concentrations (MSCs). Lead was detected in soil samples at concentrations greater than the applicable MSCs. As discussed with the PADEP, although lead does not appear to be associated with a release from a regulated tank within Tank Group 08, because lead was identifed at concentrations greater than the MSC, PADEP requested that the exceedances be reported via telephone to the Department. PESRM will prepare a Site Assessment/Closure Report to document the Site Assessment and closure activities associated with Tank Group 08 and provide evidence that the lead exceedances are not related to a regulated AST.

IX. CERTIFICATION (Both O/O and I/I)

OWNER OR OPERATOR CERTIFICATION

I, Philadelphia Energy Solutions Refining and Marketing LLC, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the owner or operator of the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

Anne R. Garr, Assistant Secretary
Signature of Owner or Operator

5 / 10 / 2024
Date

CERTIFIED INSTALLER CERTIFICATION

I, _____, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified installer who performed tank handling activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

_____
Signature of Certified Installer

/ /
Date

_____
Installer Certification Number

_____
Company Certification Number

CERTIFIED INSPECTOR CERTIFICATION

I, _____, hereby certify, under penalty of law as provided in 18 Pa.
(Print Name)

C.S.A. §4904 (relating to unsworn falsification to authorities) that I am the certified inspector who performed inspection activities at the above referenced storage tank facility and that the information provided by me in this notification is true, accurate and complete to the best of my knowledge and belief.

_____
Signature of Certified Inspector

/ /
Date

_____
Inspector Certification Number

_____
Company Certification Number

Appendix B

Select Figures from the AOI 5 SCR/RACR, AOI 5 RIR, and Sitewide Fate and Transport RIR

AOI-6

AOI-5

Tank Group 08

A

A'

B

B'

N

W E

S

Legend

- Monitoring Wells in A-A' Cross Section
- Monitoring Wells in B-B' Cross Section
- Lower Aquifer Monitoring Well
- Unconfined Aquifer Monitoring Well
- Unconfined Aquifer Piezometer
- Unconfined Aquifer Recovery Well
- Monitoring Well Abandoned/Damaged/ Unable to Locate
- A — A' AOI-5 Cross Section Location
- B — B' AOI-5 Cross Section Location
- Sheet Pile Wall
- AOI Boundary

Note:
- Tank Group 08 boundaries/notation were added by Terraphase and were not on the original figures.

Notes:
1. Aerial basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source of aerial imagery is Microsoft, 3/19/2011 (Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community)
2. Area of Interest boundaries referenced from 2011 ALTA/ACSM Land Title Survey, prepared for Sunoco Inc. (R&S).

Figure 3: Cross Section Location Plan
AOI-5 Site Characterization Report/
Remedial Action Completion 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

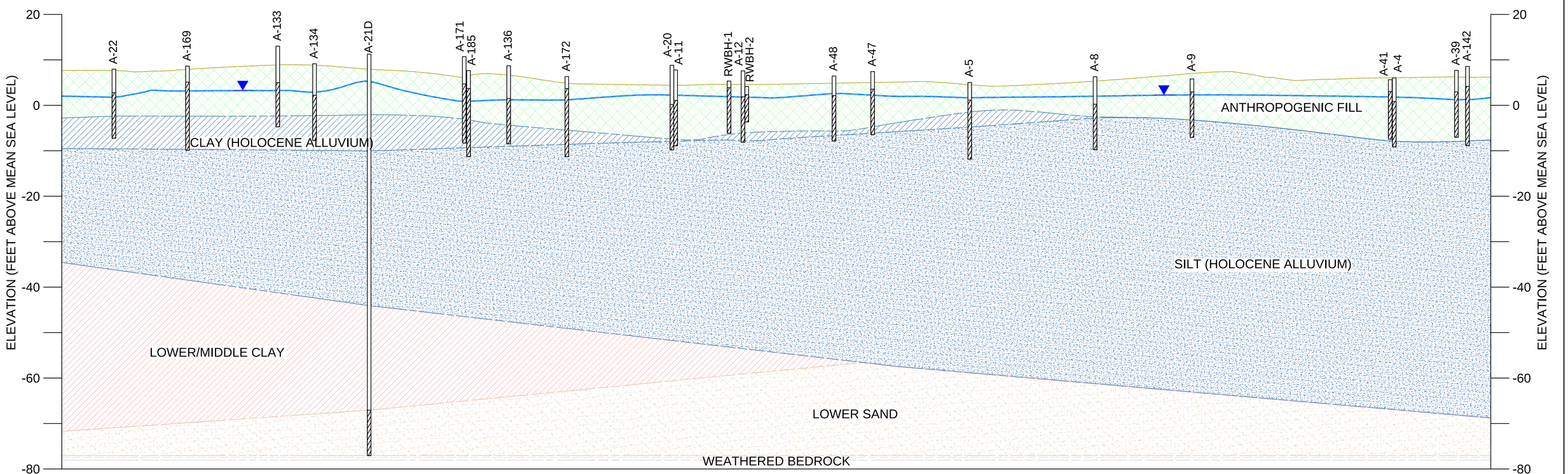
0 150 300 Feet

SCALE: 1" = 150'
DATE: 12/6/2016
DRN. BY: AJC
CKD. BY: RM
JOB# 2574602

Path: \\langan.com\data\DYL\data6\2574601\ArcGIS\MapDocuments\AOI 5 Tank SCR 2016\Figure 3 - Cross Section Location Plan_010417.mxd

LEGEND:

- ANTHROPOGENIC FILL
- LOWER/MIDDLE CLAY
- CLAY (HOLOCENE ALLUVIUM)
- SILT (HOLOCENE ALLUVIUM)
- LOWER SAND
- WEATHERED BEDROCK
- WATER TABLE
- B-129 LOCATION ID
- WELL CASING
- WELL SCREEN



NOTES:

1. GEOLOGIC CROSS SECTION WAS CREATED FROM THE 3D GEOLOGIC MODEL OF AOI 5, WHICH WAS GENERATED IN EARTH VOLUMETRIC STUDIO (EVS) SOFTWARE.
2. THE WATER TABLE SURFACE WAS INTERPOLATED IN EVS USING THE GROUNDWATER ELEVATION DATA COLLECTED DURING THE OCTOBER 2014 GAUGING EVENT BY AQUATERRA TECHNOLOGIES, INC.

5 0 1 2 5
VERTICAL SCALE IN FEET

100 0 50 100
HORIZONTAL SCALE IN FEET

EVERGREEN

Philadelphia Refinery Operations
A Series of Evergreen Resources Group, LLC.
2 Righter Parkway, Suite 200
Wilmington, DE 19803

Project
AOI-5 SITE CHARACTERIZATION REPORT/REMEDIAL ACTION COMPLETION REPORT
PES PHILADELPHIA REFINING COMPLEX
PHILADELPHIA COUNTY **PENNSYLVANIA**

Drawing Title
GEOLOGIC CROSS SECTION A-A'

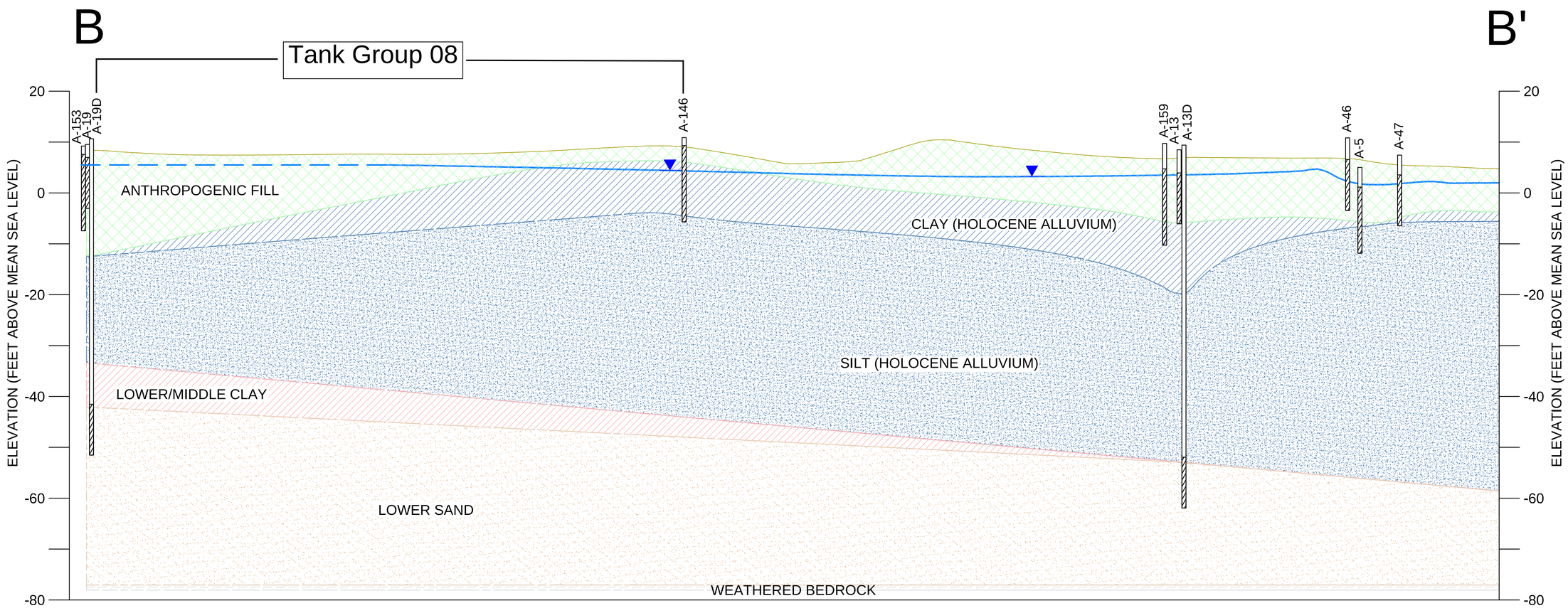
Project No. 2574602	Drawing No. 4A
Date 1 DECEMBER 2016	
Scale 1"=100' HOR. 1"=5' VER.	
Drn. By MMK	
Last Revised 2 DECEMBER 2016	

Filename: \\langan.com\data\DYL\data6\2574601\Cadd Data – 2574601\Dwg\AOI 5 RIR 2016\SCR Geologic Cross-Sections_010417.dwg Date: 2/17/2017 Time: 15:01 User: MMking Style Table: Langan.stb Layout: A-A'

Note:
- Tank Group 08 boundaries/notation were added by Terraphase and were not on the original figures.

LEGEND:

- ANTHROPOGENIC FILL
- LOWER/MIDDLE CLAY
- CLAY (HOLOCENE ALLUVIUM)
- WATER TABLE
- B-129 LOCATION ID
- WELL CASING
- WELL SCREEN
- SILT (HOLOCENE ALLUVIUM)
- LOWER SAND
- WEATHERED BEDROCK
- INFERRED WATER TABLE



NOTES:
1. GEOLOGIC CROSS SECTION WAS CREATED FROM THE 3D GEOLOGIC MODEL OF AOI 5, WHICH WAS GENERATED IN EARTH VOLUMETRIC STUDIO (EVS) SOFTWARE.
2. THE WATER TABLE SURFACE WAS INTERPOLATED IN EVS USING THE GROUNDWATER ELEVATION DATA COLLECTED DURING THE OCTOBER 2014 GAUGING EVENT BY AQUATERRA TECHNOLOGIES, INC.
3. MONITORING WELL A-19 HAS BEEN DESTROYED, AND MONITORING WELL A-153 WAS UNABLE TO BE LOCATED DURING THE OCTOBER 2014 GAUGING EVENT. THEREFORE, THE WATER TABLE SURFACE IS INFERRED AT THESE WELLS.

5 0 1 2 5
VERTICAL SCALE IN FEET

100 0 50 100
HORIZONTAL SCALE IN FEET

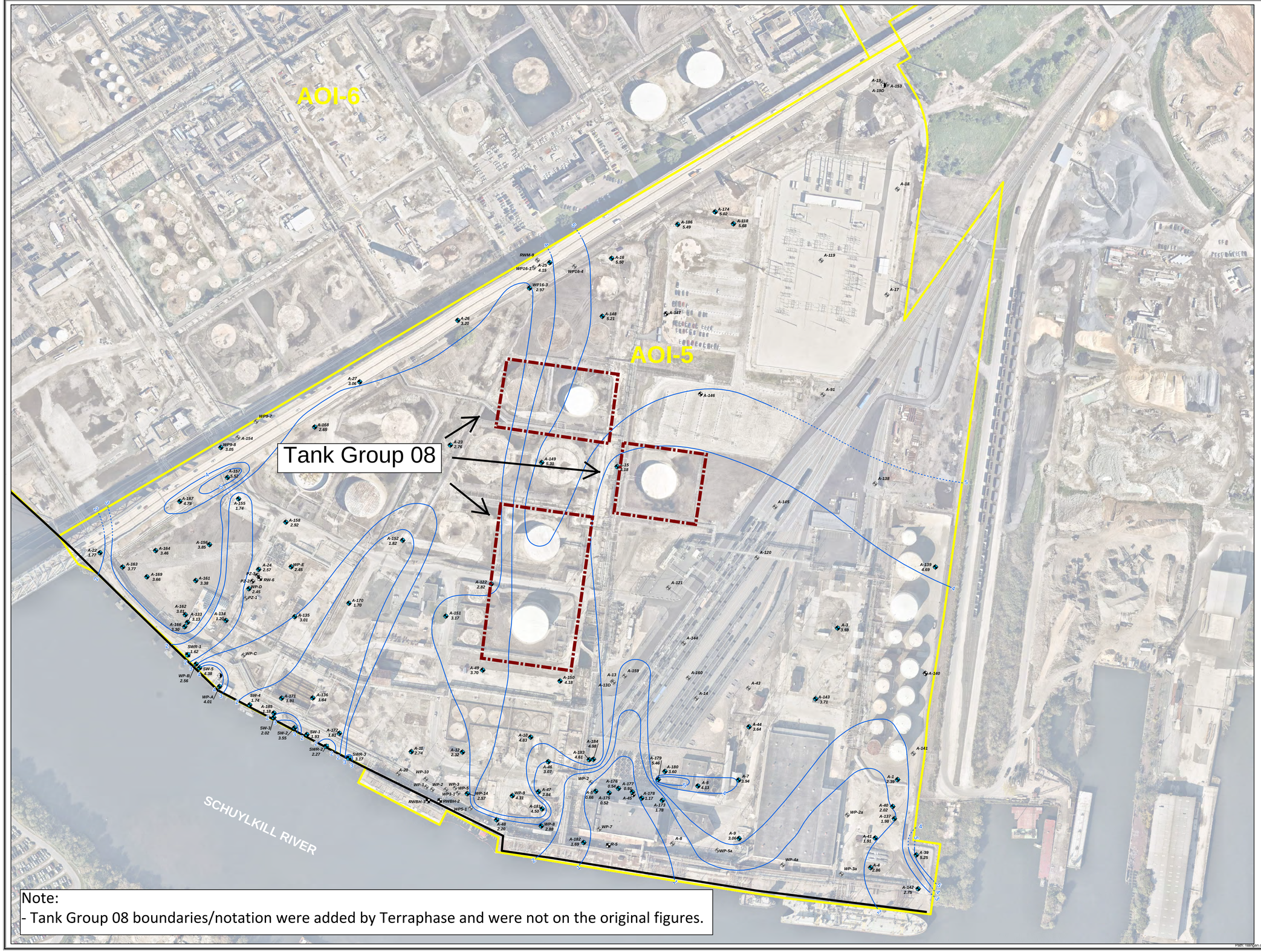
Philadelphia Refinery Operations
A Series of Evergreen Resources Group, LLC.
2 Righter Parkway, Suite 200
Wilmington, DE 19803

Project
AOI-5 SITE CHARACTERIZATION REPORT/REMEDIAL ACTION COMPLETION REPORT
PES PHILADELPHIA REFINING COMPLEX
PHILADELPHIA COUNTY PENNSYLVANIA

Drawing Title
GEOLOGIC CROSS SECTION B-B'

Project No. 2574602	Drawing No. 4B
Date 1 DECEMBER 2016	
Scale 1"=100' HOR. 1"=5' VER.	
Drn. By MMK	
Last Revised 2 DECEMBER 2016	

Filename: \\langan.com\data\DYL\data6\2574601\Cadd Data – 2574601\Dwg\AOI 5 RIR 2016\SCR Geologic Cross-Sections_010417.dwg Date: 2/17/2017 Time: 15:02 User: MMking Style Table: Langan.stb Layout: B-B'



Note:
- Tank Group 08 boundaries/notation were added by Terraphase and were not on the original figures.

N
W E
S

Legend

- A-151 — Unconfined Aquifer Monitoring Well and Groundwater Elevation (ft.)
- SWR-1 — Unconfined Aquifer Recovery Well and Groundwater Elevation (ft.)
- Lower Aquifer Monitoring Well
- Unconfined Aquifer Monitoring Well
- Unconfined Aquifer Piezometer
- Unconfined Aquifer Recovery Well
- Monitoring Well Abandoned/Damaged/ Unable to Locate
- 1 — Groundwater Contour (ft - amsl)
- Inferred Groundwater Contour (ft - amsl)
- Sheet Pile Wall
- AOI Boundary
- ft - amsl — Feet above mean sea level

Notes:
1. Aerial imagery provided by Nearmap.com as is dated 07/29/15.
2. Area of Interest boundaries referenced from 2011 ALTA/ACSM Land Title Survey, prepared for Sunoco Inc. (R&S).
3. Groundwater gauging completed in July 2014 by Aquaterra.

Figure 5: Unconfined Groundwater Elevation Contour Plan (July 2014)
AOI-5 Site Characterization Report/
Remedial Action Completion 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

0 150 300 Feet

SCALE: 1" = 150'
DATE: 11/23/2016
DRN. BY: AJC
CKD. BY: KM
JOB#: 2574602

Path: \\aquaterra.com\data\DYL\data\62574601\ArcGIS\MapDocuments\AOI 5 Tank SCR 2016\Figure 5 - Shallow GW Elevation Contour Plan (July 2014)_010417.mxd

AOI-6

AOI-5

Tank Group 08

SCHUYLKILL RIVER

Note:
- Tank Group 08 boundaries/notation were added by Terraphase and were not on the original figures.

N
W E
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Legend

- A-151 2.39 — Unconfined Aquifer Monitoring Well and Groundwater Elevation (ft.)
- SWR-1 2.83 — Unconfined Aquifer Recovery Well and Groundwater Elevation (ft.)
- Lower Aquifer Monitoring Well
- Unconfined Aquifer Monitoring Well
- Unconfined Aquifer Piezometer
- Unconfined Aquifer Recovery Well
- Monitoring Well Abandoned/Damaged/Unable to Locate
- 1 — Groundwater Contour (ft - amsl)
- Inferred Groundwater Contour (ft - amsl)
- Sheet Pile Wall
- AOI Boundary
- ft - amsl — Feet above mean sea level

Notes:
1. Aerial imagery provided by Nearmap.com as is dated 07/29/15.
2. Area of Interest boundaries referenced from 2011 ALTA/ACSM Land Title Survey, prepared for Sunoco Inc. (R&S).
3. Groundwater gauging completed in October 2014 by Aquaterra.

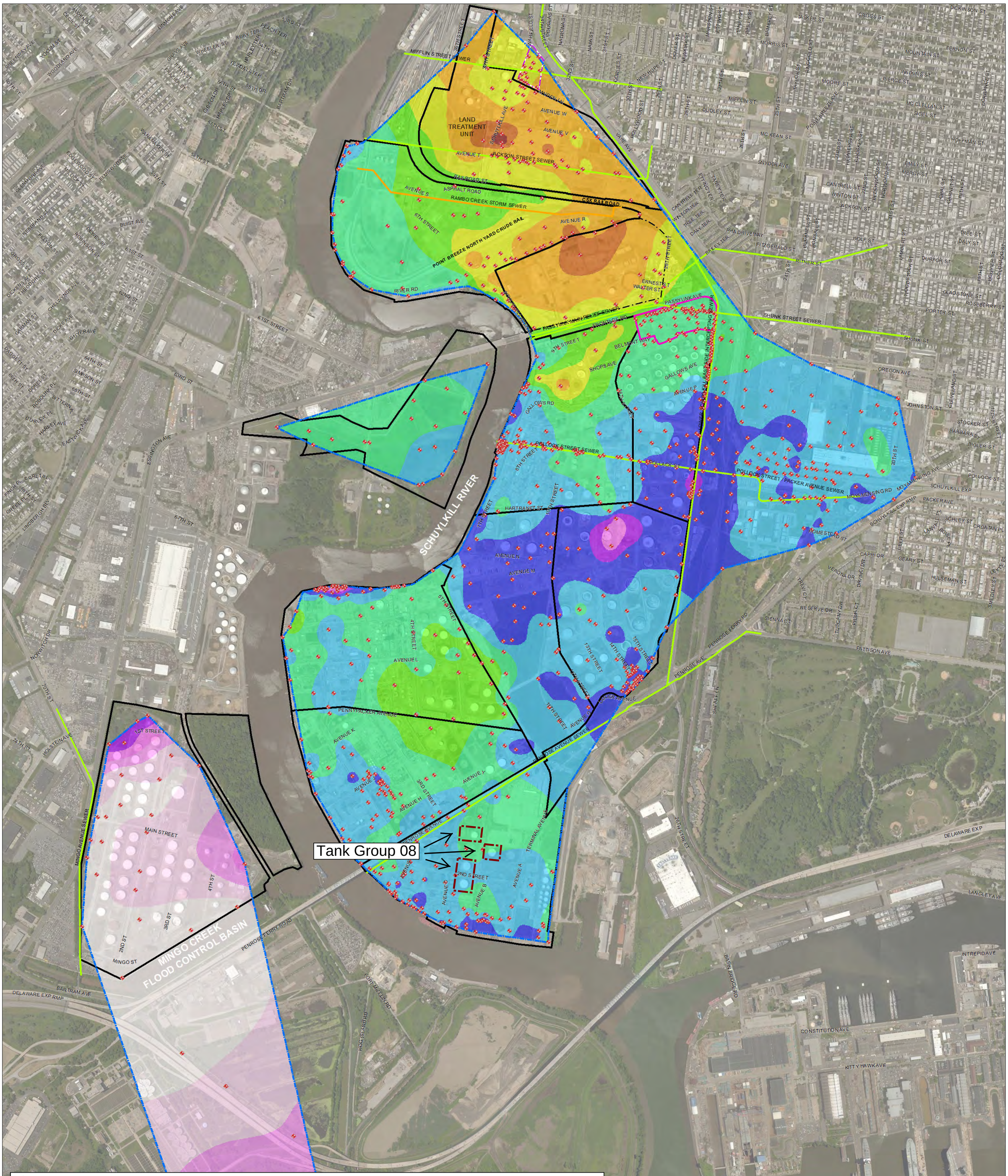
Figure 6: Unconfined Groundwater Elevation Contour Plan (October 2014)
AOI-5 Site Characterization Report/
Remedial Action Completion Report
PES Philadelphia Refining Complex
Philadelphia, Pennsylvania

Philadelphia Refinery Operations
A Series of Evergreen Resources Group, LLC.
2 Righter Parkway, Suite 200
Wilmington, DE 19803

0 150 300 Feet

SCALE: 1" = 150'
DATE: 11/23/2016
DRN. BY: AJC
CKD. BY: KM
JOB#: 2574602

Path: \\langan.com\data\DYL\data\62574601\ArcGIS\MapDocuments\AOI 5 Tank SCR 2016\Figure 6 - Shallow GW Elevation Contour Plan (October 2014)_010417.mxd



Note:
- Tank Group 08 boundaries/notation were added by Terraphase and were not on the original figures.

Notes
1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet North American Vertical Datum of 1988 (NAVD 88)
2. Sources: Stantec, Philadelphia Gas Works (PGW), and Defense Logistics Agency (DLA)
3. Depth to groundwater and LNAPL, where present, were measured in each well to the nearest one-hundredth of a foot using an interface probe.
4. FT NAVD88 = feet referenced to the North American Vertical Datum of 1988
5. Groundwater elevation data was interpolated using point kriging with a linear variogram model in Surfer to produce a surface model. The model is interpreted to be a reasonable approximation of the water-table elevation within the limits of the available well data.
6. Aerial & Topo Copyright:© 2013 National Geographic Society, i-cubed © 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation

LEGEND

- WELL UTILIZED FOR THE JUNE 2018 WATER-TABLE ELEVATION SURFACE
- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
- APPROXIMATE LOCATION OF RAMBO CREEK STORM SEWER
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY
- VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
- AREA OF INTEREST (AOI) BOUNDARY
- BELMONT TERMINAL
- APPROXIMATE LIMITS OF WATER-TABLE WELL CONTROL

JUNE 2018 WATER-TABLE ELEVATION
FT NAVD88

- 14 - 16
- 12 - 14
- 10 - 12
- 8 - 10
- 6 - 8
- 4 - 6
- 2 - 4
- 0 - 2
- -2 - 0
- -4 - -2
- -6 - -4
- -8 - -6
- -10 - -8

0 500 1,000 1,500 Feet
1:8,100 (At original document size of 24x36)

N

Figure No.
3-29

Title
JUNE 2018 WATER-TABLE ELEVATION

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

Project Location
City of Philadelphia,
Philadelphia County,
Pennsylvania

213402454
Prepared by ADK on 8/14/2018
Technical Review by ANP on 9/20/2018
Independent Review by JLM on 10/19/2018

Stantec

EVERGREEN

Appendix C

Boring Logs

Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-01

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.0-4.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-01-SS01		2.4	Tan fine-grained clay	
				6.6		
2				3.8	Black fine to medium-grained silty sand	
				4		
3				3.1		
				3.1		
4				2.8	Black medium to coarse-grained sand	
				3.2		
5				7.1		
				5.8		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-02

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				2.1	Tan fine-grained clay	
1				2.3	Black/brown medium to coarse-grained sand	
				2.1		
2				2.8		
				2.3		
3				2.4		
				3.3		
4				3.2		
				3		
5		GPR219-02-SS01		6.3		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-03

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 1.0-1.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-03-SS01		1.8	Tan/gray fine clay	
				1.8		
2				48.1	Brown/black medium to coarse-grained sand	
				5.6		
3				3.1	Black fine to medium-grained silty sand.	
				2.8		
4				8.1		
				21.3		
5				39		
				22.6	Medium-grained black sand	
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-04

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				1.3	Light to dark brown medium to coarse-grained sand with gravel	
1				2.5		
				2.2		
2				2.3		
				2.5		
3				2.6		
				2.3		
4				2.4		
				3.3		
5		GPR219-04-SS01		10.7	Black fine-grained silty sand	
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-05

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.0-4.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-05-SS01		4.1	Light brown fine to medium-grained clay and sand	
				2.7		
2				2.6	Gray concrete	
				3.1	Black medium-grained sand	
3				16.1		
				8.7		
4				25.3		
				22.8		
5				51		
				26.2		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-06

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-06-SS01		1.9	Tan/gray fine clay	
				1.9		
2				2.2	Brown/black medium to coarse-grained sand	
				2		
3				4.9	Black fine to medium-grained silty sand.	
				2.5		
4				2.8		
				37.4		
5				7.6		
				5.1	Medium-grained black sand	
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-07

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.0-4.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-07-SS01		2.2	Tan clay	
				2.2		
2				2.4	Medium-grained, brown sand with gravel	
				2.5		
3				2.4	Fine-grained black silty sand	
				6.1	tan, coarse-grained sand	
4				3.7	brown/black medium to coarse-grained sand with gravel	
				4.2		
5				64.4		
				58.7		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-08

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR219-08-SS01		2.4	Tan clay	Petroleum sheen
				2.4		
2				2.7		
				2.7	Black/brown medium-grained sand with gravel and some silt	
3				3.5		
				3		
4				2.5		
				2.6		
5				2.7		
				2.8		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR219-09

Page 1 of 1

Client: Hilco		Date Start: 4/22/2024
Project Name: PES Refinery		Date Finish: 4/22/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	56	Remarks
				2.4	Tan fine-grained clay	
1				2.5		
				2.7		
2				2.7		
				5.2		
3				2.6	Black/brown medium to coarse-grained sand with gravel and some silt	
				2.6		
4				2.6		
				3.4		
5		GPR219-09-SS01		18.7		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR225-01

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				1.6		
1				5.3	Brown/gray medium to coarse-grained sandy fill with gravel	
				4.4		
2				6.3		
				5.4		
3				9.6		
				15.8	Gray fine to medium-grained silty sand	
4		GPR225-01-SS01		18.4		
				13.1		
5				8.7		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR225-02

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				3.3		
1				5.1	Brown/gray medium to coarse-grained sand and sandy fill with gravel	
				3.8		
2				4.4		
				3.4		
3		GPR225-02-SS01		7.3		
				6.9	Gray fine to medium-grained silty sand	
4				4.2		
				5.7		
5				6.9		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR225-03

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.0-2.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR225-03-SS01		1.3	Light brown coarse-grained sand with gravel	
				1.7		
2				4.6	Black med-grained sand w/gravel	
				6.7	Gray fine-grained sand with some silt	
3				12.4		
				3.9		
4				2.3		
				2.4		
5				2.1		
				3.2		
6					**END OF BORING (5 ft.)**	
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Soil Boring Log

Boring No.: GPR225-04

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR225-04-SS01		4.2	Brown medium-grained sandy fill with gravel	
				3.2		
2				1.8		
				2.4	Gray fine to medium-grained sand with little silt	
3				2.7		
				4.9		
4				3.6		
				3.7		
5				2.7		
				3.5		
6					**END OF BORING (5 ft.)**	
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Soil Boring Log

Boring No.: GPR225-05

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Brown/gray medium to coarse-grained sand with gravel	
1				0.1		
				0.1		
2				0.0		
				0.0		
3		GPR225-05-SS01		8.3		
				5.7		
4				2.6	Gray fine-grained silty sand	
				1.5	Gray medium to coarse-grained sand	
5				0.7		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-06

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				1.4	Brown medium to coarse-grained sandy fill with some brick and gravel	
1				3.6		
				4.7		
2				2.9		
				5.4	Gray fine-grained silty sand	
3				4.8		
				4.4		
4		GPR225-06-SS01		8.6		
				4.3		
5				3.2		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-07

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0		
1				0.1	Brown medium to coarse-grained sand with some asphalt	
				0.1		
2				0.6		
				0.2		
3				0.9	Gray fine-grained sand	
		GPR225-07-SS01		1.2	Gray fine-grained silty sand	Slight petroleum sheen
4				0.4		
				2	Gray medium-grained sand	
5				0.6		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-08

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0	Gray/brown medium to coarse-grained sand with gravel	
1				0.6		
				0.4		
2				1.3	Gray/black medium to coarse-grained sand	
				1.2		
3				4.5		
		GPR225-08-SS01		8.9		
4				2.6		
				1.8		
5				1.1	Gray fine-grained silty sand	
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-09

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.0-2.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
		GPR225-09-SS01		2.3	Brown/gray medium to coarse-grained cand and sandy fill with gravel	
1				2.6		
				2.4		
2				2.9	Gray fine to medium=grained sand with silt and gravel	
				2.9		
3				2.2		
				2.6		
4				2.5	Gray coarse-grained sand	
				2.3		
5				2.3	Gray fine-grained silty sand	
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-10

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 1.5-2.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR225-10-SS01		1.4	Brown/black medium to coarse-grained sandy fill with asphalt	
				5.1		
2				50.4	Gray/black medium-grained sand	
				331.6		
3				93.4		
				131.9		
4				280.8		
				53.3		
5				21.4		
				9.6		
6					**END OF BORING (5 ft.)**	
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Soil Boring Log

Boring No.: GPR225-11

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				3.9	Brown/black medium to coarse-grained sandy fill with gravel and asphalt	
1				3.2		
				4.6		
2				27.8		
				192.8	Gray medium-grained sand with some silt	
3		GPR225-11-SS01		240.2		
				33.7		
4				165.6		
				43.4		
5				25.1		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR225-12

Page 1 of 1

Client: Hilco		Date Start: 4/23/2024
Project Name: PES Refinery		Date Finish: 4/23/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				5.8		
1				6.1		
				3.1		
2				2.4		
				5.4	Brown/black medium to coarse-grained sand with gravel	
3				2.2		
		GPR225-12-SS01		33.8		
4				28.7		
				24.4		
5				20.3		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-01

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				1.7	Brown/black sandy fill with gravel and trace asphalt	
1				2.3		
				6.8		
2				2.9		
				6.6		
3		GPR227-01-SS01		18.8		Petroleum Sheen
				5.2	Brown/gray medium-grained sand	
4				7.2		
				11.7	Gray fine-grained silty sand	
5				5.8		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-02

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 1.5-2.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				11.9	Top soil	
1				5.5	Brown/gray med-grained sand	
				20.3		
2		GPR227-02-SS01		52.4		
				35.7		
3				12.6	Gray silty clay	
				5.5		
4				1.7		
				5.6		
5				2.4		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-03

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 1.0-1.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR227-03-SS01		5.9	Brown.gray sandy fill with asphalt and gravel	
				8.3		
2				18.9	Brown/gray medium-grained sand	
				16.3		
3				3.8		
				18.3		
4				5.5		
				2.1		
5				3.7	Gray fine-grained silty sand	
				5.2		
6					**END OF BORING (5 ft.)**	
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Soil Boring Log

Boring No.: GPR227-04

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
		GPR227-04-SS01		0.2	Black/brown sandy fill with gravel and asphalt	
1				1.4		
				1.1		
2				2.7		
				2.3		
3				3.1	Gray medium-grained sand	
				4.3		
4				1.5		
				2.2	Gray fine-grained silty sand	
5				1.6		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-05

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR227-05-SS01		13.4	Brown/black sandy fill with gravel	Petroleum Sheen
				4.8		
2				7.3		
				22.4		
3				11.5	Gray medium-grained sand	
				32.4		
4				24.3		
				30.2		
5				20.4		
				15.1		
6					**END OF BORING (5 ft.)**	
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Soil Boring Log

Boring No.: GPR227-06

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
		GPR227-06-SS01		4.9	Brown/black medium to coarse-grained sandy fill with gravel	
1				7.6		
				71.1		
2				68.6		
				22.5		
3				46.9		
				436.1		
4				18.7		
				4.3		
5				5.7	Gray silty sand	
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-07

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Black/brown medium to coarse-grained sandy fill with gravel and some asphalt	
1				0.0		
				0.3		
2				0.1		
				0.7		
3				1.8		
				3.1		
4				2.2		
				1.9		
5		GPR227-07-SS01		7.2	Black medium-grained sand	
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-08

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0		
1				0.8	Black and brown sandy fill	
				0.0		
2				0.0		
				0.3	Medium-grained gray sand	
3				0.0		
		GPR227-08-SS01		0.9		
4				0.1	Gray silty sand	
				0.1		
5				0.0	Gray medium-grained sand	
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR227-09

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0		
1				0.0		
				0.0	Brown sandy with with gravel and concrete	
2				0.3		
				0.0		
3		GPR227-09-SS01		3.4		Petroleum sheen
				0.0		Petroleum sheen
4				0.0	Black medium-grained sand	
				0.0		
5				0.0		
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR227-10

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.5-3.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.2	Black/brown med-coarse sand fill	
1				42.9		
				96.7		
2				103.6		
				56.1		
3		GPR227-10-SS01		129.3	Black medium-grained sand	Petroleum Sheen
				103.1		
4				105.3		
				1.7		
5				1.5		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR227-11

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 2.0-2.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0		
1				0.0		
				0.0	Brown/black sandy fill with gravel	
2				0.0		
		GPR227-11-SS01		1.8		
3				0.1		
				0.0		
4				0.0	Black medium-grained sand	
				0.0		
5				0.0		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR227-12

Page 1 of 1

Client: Hilco		Date Start: 4/24/2024
Project Name: PES Refinery		Date Finish: 4/24/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Nick Daigle	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR227-12-SS01		0.0	Brown/black medium to coarse-grained sand with gravel	Petroleum sheen
				0.0		
2				0.0		
				0.6		
3				0.6		
				0.0		
4				4.2		
				34.7	Black medium to coarse-grained sand	
5				41.3	Gray medium-grained sand	
				8.1		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-01R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 2.0-2.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR217-01-SS01-2	4.5	0.0	Brown fine to coarse sand, some fine gravel	
2				0.0		
3				0.0	Brown silt, little fine fine sand	
4				0.0		
5				0.0		Moist
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-02R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 1.5-2.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR217-02-SS01-2		0.0	Brown silt, some organics, little fine gravel	
				0.0		
				0.0		
2				50.4	Dark brown silt, trace gravel, trace organics, moist	
				6.8		
3				22.8		
				7.3		
4				5.7		
				5.5		
5				3.4		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-03R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Brown silt, trace fine gravel	
1				0.0		
				0.0		
2				0.0	Brown silt, trace coarse sand, some fine gravel	
				0.0		
3				0.0	Dark brown silt, some red brick fill, trace glass shards	
				0.8		
4				0.0		
				0.1	Dark brown silt, some fine gravel	Strong petrol odor
5		GPR217-03-SS01-2		1.3		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-04R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0		
1				0.0		
				0.0		
2				0.0		
				0.0		
3				0.7	Brown fine to coarse sand	
				0.0		
4		GPR217-04-SS01-2		8.5		wet
				1.5		
5				1.7		moist
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-05R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Dark brown silty sand, some fine gravel	
1				0.0		
				0.0		
2				0.0	Brown fine to coarse sand, some fine gravel	
				0.0		
3				0.0		
				0.3		
4				0.8		
				4.5	Dark brown silt, moist	
5		GPR217-05-SS01-2		4.7		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-06R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Brown fine to coarse sand, some fine gravel	
1				0.0		
				0.0		
2				0.0	Brown silty sand, trace fine gravel	
				1.5		
3				0.0		
				2.1	Dark brown silt, moist	Strong petrol odor
4				0.0		
				1.2		
5		GPR217-06-SS01-2		3.9		
					END OF BORING (5 ft.)	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-07R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 4.5-5.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1				0.0	brown fine gravel and brown silt	
				0.0		
2				0.0	Brown silt, little fine to coarse sand	
				0.0		
3				0.0	Brown fine to coarse sand	
				0.0		
4				0.0		
				2.5		
5				8.0		
		GPR217-07-SS01-2		8.0		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-08R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 3.5-4.0	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
				0.0	Brown fine to coarse sand, some fine gravel	One large piece white angular gravel
1				0.0		
				0.0		
2				0.0	Brown silt, some coarse sand	
				0.0		
3				0.0		
				0.0	Dark brown silt, some fine to coarse sand	
4		GPR217-08-SS01-2		2.5		
				0.0		
5				0.2	Brown silt, some fine red gravel	
					END OF BORING (5 ft.)	
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Soil Boring Log

Boring No.: GPR217-09R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 2.0-2.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR217-09-SS01-2		0.0	Brown fine to coarse sand, some fine gravel	
				0.0		
				0.0		
2				0.0		
				0.0	Dark brown silt, some fine to coarse sand	
3				2.0		
				0.0		
4				0.0		
				0.0	Brown/gray silt, some fine gray sand	
5				0.1		
				0.0		
6					**END OF BORING (5 ft.)**	
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Ransom Consulting, LLC

Soil Boring Log

Boring No.: GPR217-10R

Page 1 of 1

Client: Hilco		Date Start: 6/3/2024
Project Name: PES Refinery		Date Finish: 6/3/2024
Project No.: 200.00135	Location: Philadephia, PA	Permit No.:
Drilling Contractor: MB Drilling		Ground Elevation: N/A
Driller: Joe Flannery	Drilling Method: Geoprobe	Datum: N/A
Hole Diameter: 2"	Sampling Method: Acetate Liner	Total Depth: 5.0'
Logged By: Dan Povio	Sample Interval: 3.0-3.5	Hammer wt./fall: N/A

Depth (ft)	Blow Counts	Sample No.	Recovery (Feet)	PID/FID (ppm)	Lithologic Description	Remarks
1		GPR217-10-SS01-2		0.0	Brown fine to coarse sand, some fine gravel, trace organics	
				0.0		
2				0.0	Brown silt, some fine gravel	
				0.0		
3				0.0	Brown fine to coarse sand and gray fine to medium gravel	
				0.0		
4				0.0		
				0.0	Brown silt, some fine to coarse sand, little fine gravel	
5				0.0		
6					**END OF BORING (5 ft.)**	
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Appendix D

Historical Soil Analytical Results

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	AOI5 BH-25-12	AOI5 BH-28-12	AOI5 BH-31-12	AOI5 BH-32-12	AOI5 BH-33-12	AOI5_B010	AOI5_B012
Field Sample ID			BH-25-12_.5-1	BH-28-12_0-.5	BH-31-12_3-3.5	BH-32-12_.5-1	BH-33-12_.5-1	AOI5_B010_PFAS_0-1_20220630	AOI5_B012_PFAS_0-1_20220630
Collection Depth (ft bgs)			0.5 - 1.0	0.0 - 0.5	3.0 - 3.5	0.5 - 1.0	0.5 - 1.0	0.0 - 1.0	0.0 - 1.0
Sample Date			8/8/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012	6/30/2022	6/30/2022
Comments									
Volatile Organic Compounds									
Benzene	280	0.5	ND (0.005)	0.006 J (0.008)	0.001 J (0.007)	ND (0.48)	ND (0.009)	NA	NA
Cumene	10000	2500	ND (0.005)	ND (0.008)	0.002 J (0.007)	0.22 J (0.48)	ND (0.009)	NA	NA
1,2-Dibromoethane	3.7	0.005	ND (0.005)	ND (0.008)	ND (0.007)	ND (0.48)	ND (0.009)	NA	NA
1,2-Dichloroethane	85	0.5	ND (0.005)	ND (0.008)	ND (0.007)	ND (0.48)	ND (0.009)	NA	NA
Ethyl Benzene	880	70	ND (0.005)	ND (0.008)	ND (0.007)	ND (0.48)	ND (0.009)	NA	NA
Methyl tert-butyl ether	8500	2	ND (0.005)	ND (0.008)	ND (0.007)	ND (0.48)	ND (0.009)	NA	NA
Toluene	10000	100	ND (0.005)	0.016 (0.008)	0.002 J (0.007)	ND (0.48)	0.002 J (0.009)	NA	NA
1,2,4-Trimethylbenzene	4700	300	ND (0.005)	ND (0.008)	0.001 J (0.007)	0.4 J (0.48)	ND (0.009)	NA	NA
1,3,5-Trimethylbenzene	4700	93	ND (0.005)	ND (0.008)	ND (0.007)	0.27 J (0.48)	ND (0.009)	NA	NA
Xylenes (total)	7900	1000	ND (0.005)	0.002 J (0.008)	0.001 J (0.007)	ND (0.48)	ND (0.009)	NA	NA
Semivolatile Organic Compounds									
Anthracene	190000	350	ND (0.38)	0.14 J (0.41)	1.3 (0.13)	2.1 (0.23)	2.5 (0.15)	NA	NA
Benzo(a)anthracene	130	340	ND (0.38)	0.32 J (0.41)	0.98 (0.13)	1.6 (0.23)	1.7 (0.15)	NA	NA
Benzo(a)pyrene	91	46	ND (0.38)	0.43 (0.41)	0.95 (0.13)	1.4 (0.23)	3.5 (0.15)	NA	NA
Benzo(b)fluoranthene	76	170	ND (0.38)	0.61 (0.41)	1 (0.13)	1.3 (0.23)	3.8 (0.15)	NA	NA
Benzo(g,h,i)perylene	190000	180	0.4 (0.38)	0.51 (0.41)	0.78 (0.13)	1 (0.23)	4.9 (0.15)	NA	NA
Chrysene	760	230	ND (0.38)	0.4 J (0.41)	1.3 (0.13)	3.1 (0.23)	2.4 (0.15)	NA	NA
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	ND (0.38)	ND (0.41)	1.4 (0.13)	3.5 (0.23)	1.1 (0.15)	NA	NA
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	0.57 (0.38)	0.47 (0.41)	5.9 (0.13)	3 (0.23)	19 (0.15)	NA	NA
Phenanthrene	190000	10000	ND (0.38)	0.48 (0.41)	4.5 (0.13)	9.3 (0.23)	3.8 (0.15)	NA	NA
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	ND (0.38)	0.49 (0.41)	1.6 (0.13)	3.5 (0.23)	1.9 (0.15)	NA	NA
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	ND (0.00057)	ND (0.00061)
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	186 (0.728)	1760 (7.93)	152 (0.755)	232 (0.665)	545 (1.7)	NA	NA

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	AOI5_B019	AOI5_BH-13-123	AOI5_BH-13-124	AOI5_BH-14-01	AOI5_BH-14-02	AOI5_BH-14-06	AOI5_BH-14-06
Field Sample ID			AOI5_B019_PFAS_0-1_20220630	AOI-5_BH-13-123_0-.5_102913	AOI-5_BH-13-124_0-.5_102913	AOI5_BH-14-01	AOI5_BH-14-02	A015_BH-14-06	A015_BH-14-DUP1
Collection Depth (ft bgs)			0.0 - 1.0	0.0 - 0.5	0.0 - 0.5	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0
Sample Date			6/30/2022	10/29/2013	10/29/2013	3/17/2014	3/17/2014	3/14/2014	3/14/2014
Comments									Field Duplicate
Volatile Organic Compounds									
Benzene	280	0.5	NA	ND (0.0023)	ND (0.0027)	ND (0.0014)	ND (0.0019)	ND (0.0017)	ND (0.0017)
Cumene	10000	2500	NA	ND (0.011)	ND (0.013)	ND (0.007)	ND (0.0095)	NA	NA
1,2-Dibromoethane	3.7	0.005	NA	ND (0.0043)	ND (0.0043)	ND (0.0036)	ND (0.0035)	NA	NA
1,2-Dichloroethane	85	0.5	NA	ND (0.0023)	ND (0.0027)	ND (0.0014)	ND (0.0019)	NA	NA
Ethyl Benzene	880	70	NA	ND (0.0023)	ND (0.0027)	ND (0.0014)	ND (0.0019)	ND (0.0017)	ND (0.0017)
Methyl tert-butyl ether	8500	2	NA	ND (0.0023)	ND (0.0027)	ND (0.0014)	ND (0.0019)	NA	NA
Toluene	10000	100	NA	ND (0.0023)	ND (0.0027)	0.00066 J (0.0014)	ND (0.0019)	ND (0.0017)	ND (0.0017)
1,2,4-Trimethylbenzene	4700	300	NA	ND (0.011)	ND (0.013)	ND (0.007)	0.0013 J (0.0095)	NA	NA
1,3,5-Trimethylbenzene	4700	93	NA	ND (0.011)	ND (0.013)	ND (0.007)	ND (0.0095)	NA	NA
Xylenes (total)	7900	1000	NA	ND (0.0023)	ND (0.0027)	ND (0.0014)	ND (0.0019)	ND (0.0017)	ND (0.0017)
Semivolatile Organic Compounds									
Anthracene	190000	350	NA	0.685 (0.053)	0.126 (0.053)	0.0623 (0.047)	0.0482 (0.045)	NA	NA
Benzo(a)anthracene	130	340	NA	2.57 (0.053)	0.198 (0.053)	0.0408 J (0.047)	0.198 (0.045)	NA	NA
Benzo(a)pyrene	91	46	NA	2.27 (0.053)	0.303 (0.053)	0.0621 (0.047)	0.24 (0.045)	0.2 (0.045)	ND (0.23)
Benzo(b)fluoranthene	76	170	NA	2.66 (0.053)	0.312 (0.053)	0.0608 (0.047)	0.287 (0.045)	NA	NA
Benzo(g,h,i)perylene	190000	180	NA	1.49 (0.053)	0.522 (0.053)	0.132 (0.047)	0.183 (0.045)	NA	NA
Chrysene	760	230	NA	2.67 (0.053)	0.354 (0.053)	0.0394 J (0.047)	0.212 (0.045)	NA	NA
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	ND (0.22)	ND (1.2)
Fluorene	130000	3800	NA	0.0877 (0.053)	ND (0.053)	ND (0.047)	ND (0.045)	NA	NA
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	ND (0.09)	ND (0.47)
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	ND (0.09)	ND (0.47)
Naphthalene	66	25	NA	0.0404 J (0.053)	0.0675 (0.053)	0.025 J (0.047)	ND (0.045)	0.0259 J (0.045)	ND (0.23)
Phenanthrene	190000	10000	NA	1.83 (0.053)	0.165 (0.053)	0.0304 J (0.047)	0.164 (0.045)	0.119 (0.045)	ND (0.23)
Phenol	16000	200	NA	NA	NA	NA	NA	ND (0.09)	ND (0.47)
Pyrene	96000	2200	NA	4.31 (0.053)	0.324 (0.053)	ND (0.047)	ND (0.045)	NA	NA
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	ND (0.00063)	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	ND (0.00063)	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	ND (0.00063)	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	0.00033 (0.00063)	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	ND (0.00063)	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	ND (0.00063)	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	ND (0.31)	ND (0.32)
Lead	1000	450	NA	1780 (5.7)	1350 (1.2)	175 (2)	2130 (5.8)	1570 (6.1)	1390 (2)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location Field Sample ID Collection Depth (ft bgs) Sample Date Comments	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	AOI5_BH-14-07 A015_BH-14-07 0.0 - 2.0 3/14/2014	AOI5_BH-14-08 A015_BH-14-08 0.0 - 2.0 3/14/2014	AOI5_BH-14-19 AOI-5_BH_14-19_0-2' 0.0 - 2.0 6/18/2014	AOI5_BH-14-19 AOI-5_BH_14-19_6-8' 6.0 - 8.0 6/18/2014	AOI5_BH-14-20 AOI-5_BH_14-20 0.0 - 2.0 6/20/2014	AOI5_BH-14-20 A0I-5_BH_14_20_6-8' 6.0 - 8.0 6/24/2014	AOI5_BH-14-36 AOI-5_BH_14-36_0-2' 0.0 - 2.0 6/18/2014
Volatile Organic Compounds									
Benzene	280	0.5	ND (0.0019)	ND (0.0019)	0.0044 (0.00047)	0.0031 (0.0008)	ND (0.00054)	ND (0.00081)	0.0032 (0.00044)
Cumene	10000	2500	NA	NA	ND (0.0047)	ND (0.008)	ND (0.0054)	ND (0.0081)	ND (0.0044)
1,2-Dibromoethane	3.7	0.005	NA	NA	ND (0.0051)	ND (0.0061)	ND (0.003)	ND (0.0081)	ND (0.0054)
1,2-Dichloroethane	85	0.5	NA	NA	ND (0.00093)	ND (0.0016)	ND (0.0011)	ND (0.0016)	ND (0.00088)
Ethyl Benzene	880	70	ND (0.0019)	ND (0.0019)	0.00054 J (0.00093)	ND (0.0016)	ND (0.0011)	ND (0.0016)	ND (0.00088)
Methyl tert-butyl ether	8500	2	NA	NA	ND (0.00093)	ND (0.0016)	ND (0.0011)	0.00041 J (0.0016)	ND (0.00088)
Toluene	10000	100	ND (0.0019)	ND (0.0019)	0.00053 J (0.00093)	ND (0.0016)	ND (0.0011)	ND (0.0016)	ND (0.00088)
1,2,4-Trimethylbenzene	4700	300	NA	NA	0.0011 J (0.0019)	ND (0.0032)	ND (0.0021)	ND (0.0033)	ND (0.0018)
1,3,5-Trimethylbenzene	4700	93	NA	NA	0.00075 J (0.0019)	ND (0.0032)	ND (0.0021)	ND (0.0033)	ND (0.0018)
Xylenes (total)	7900	1000	0.0039 (0.0019)	ND (0.0019)	0.0082 (0.00093)	ND (0.0016)	ND (0.0011)	ND (0.0016)	ND (0.00088)
Semivolatile Organic Compounds									
Anthracene	190000	350	NA	NA	0.0334 (0.033)	0.0545 (0.049)	0.142 (0.039)	ND (0.054)	0.227 (0.032)
Benzo(a)anthracene	130	340	NA	NA	0.0933 (0.033)	0.147 (0.049)	0.422 (0.039)	ND (0.054)	1.24 (0.032)
Benzo(a)pyrene	91	46	ND (0.049)	0.337 (0.047)	0.102 (0.033)	0.147 (0.049)	0.578 (0.039)	ND (0.054)	1.13 (0.032)
Benzo(b)fluoranthene	76	170	NA	NA	0.0952 (0.033)	0.146 (0.049)	0.644 (0.039)	ND (0.054)	1.25 (0.032)
Benzo(g,h,i)perylene	190000	180	NA	NA	0.096 (0.033)	0.0825 (0.049)	0.449 (0.039)	ND (0.054)	0.591 (0.032)
Chrysene	760	230	NA	NA	0.118 (0.033)	0.148 (0.049)	0.438 (0.039)	ND (0.054)	1.02 (0.032)
2,4-Dimethylphenol	10000	190	ND (0.24)	ND (0.24)	NA	NA	NA	NA	NA
Fluorene	130000	3800	NA	NA	ND (0.033)	ND (0.049)	0.023 J (0.039)	ND (0.054)	0.0171 J (0.032)
2-Methylphenol	160000	490	ND (0.097)	ND (0.095)	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	ND (0.097)	ND (0.095)	NA	NA	NA	NA	NA
Naphthalene	66	25	0.0363 J (0.049)	0.0628 (0.047)	0.0208 J (0.033)	0.0401 J (0.049)	0.161 (0.039)	ND (0.054)	0.0765 (0.032)
Phenanthrene	190000	10000	ND (0.049)	0.183 (0.047)	0.0492 (0.033)	0.101 (0.049)	0.187 (0.039)	ND (0.054)	0.19 (0.032)
Phenol	16000	200	ND (0.097)	ND (0.095)	NA	NA	NA	NA	NA
Pyrene	96000	2200	NA	NA	0.11 (0.033)	0.291 (0.049)	0.443 (0.039)	0.0302 J (0.054)	1.43 (0.032)
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	ND (0.34)	ND (0.32)	NA	NA	NA	NA	NA
Lead	1000	450	1800 (6.1)	1670 (2)	70 (1.9)	20.7 (2)	168 (2.1)	17.1 (3.1)	37.9 (1.9)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location Field Sample ID Collection Depth (ft bgs) Sample Date Comments	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	AOI5_BH-14-36 AOI-5_BH_14-36_4-6' 4.0 - 6.0 6/18/2014	AOI5_BH-14-37 AOI-5_BH_14-37_0-2' 0.0 - 2.0 6/19/2014	AOI5_BH-14-37 AOI-5_BH_14-37_6-8' 6.0 - 8.0 6/19/2014	AOI5-BH-13-03 A015-BH-13-03_0-.5 0.0 - 0.5 3/1/2013	AOI5-BH-13-05 A015-BH-13-05_0-.5 0.0 - 0.5 3/1/2013	AOI5-BH-13-18 A015-BH-13-18_0-.25 0.0 - 0.3 3/1/2013	AOI5-BH-13-19 A015-BH-13-19_.5-1 0.5 - 1.0 3/1/2013
Volatile Organic Compounds									
Benzene	280	0.5	0.0014 (0.00058)	0.0727 (0.00052)	0.166 (0.00083)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
Cumene	10000	2500	ND (0.0058)	ND (0.0052)	ND (0.0083)	ND (0.0045)	ND (0.0063)	ND (0.0056)	ND (0.0051)
1,2-Dibromoethane	3.7	0.005	ND (0.0034)	ND (0.0029)	ND (0.0047)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
1,2-Dichloroethane	85	0.5	ND (0.0012)	ND (0.001)	ND (0.0017)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
Ethyl Benzene	880	70	ND (0.0012)	ND (0.001)	ND (0.0017)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
Methyl tert-butyl ether	8500	2	ND (0.0012)	ND (0.001)	ND (0.0017)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
Toluene	10000	100	0.00061 J (0.0012)	ND (0.001)	0.00052 J (0.0017)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
1,2,4-Trimethylbenzene	4700	300	ND (0.0023)	ND (0.0021)	ND (0.0033)	ND (0.0045)	ND (0.0063)	ND (0.0056)	ND (0.0051)
1,3,5-Trimethylbenzene	4700	93	ND (0.0023)	ND (0.0021)	ND (0.0033)	ND (0.0045)	ND (0.0063)	ND (0.0056)	ND (0.0051)
Xylenes (total)	7900	1000	ND (0.0012)	ND (0.001)	ND (0.0017)	ND (0.0009)	ND (0.0013)	ND (0.0011)	ND (0.001)
Semivolatile Organic Compounds									
Anthracene	190000	350	0.163 (0.045)	0.503 (0.038)	0.0684 (0.061)	0.0539 (0.04)	0.195 (0.046)	0.0834 (0.044)	0.232 (0.041)
Benzo(a)anthracene	130	340	0.527 (0.045)	1.99 (0.038)	0.176 (0.061)	0.0683 (0.04)	0.247 (0.046)	0.359 (0.044)	0.92 (0.041)
Benzo(a)pyrene	91	46	0.472 (0.045)	2.94 (0.038)	0.2 (0.061)	0.0791 (0.04)	0.303 (0.046)	0.452 (0.044)	1.08 (0.041)
Benzo(b)fluoranthene	76	170	0.444 (0.045)	3.11 (0.038)	0.221 (0.061)	0.168 (0.04)	0.363 (0.046)	0.49 (0.044)	1.22 (0.041)
Benzo(g,h,i)perylene	190000	180	0.228 (0.045)	1.7 (0.038)	0.129 (0.061)	0.112 (0.04)	0.391 (0.046)	0.325 (0.044)	0.678 (0.041)
Chrysene	760	230	0.463 (0.045)	2.21 (0.038)	0.181 (0.061)	0.114 (0.04)	0.308 (0.046)	0.387 (0.044)	0.924 (0.041)
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	0.264 (0.045)	0.129 (0.038)	ND (0.061)	ND (0.04)	ND (0.046)	ND (0.044)	ND (0.041)
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	0.0754 (0.045)	0.461 (0.038)	0.0652 (0.061)	ND (0.04)	0.0607 (0.046)	0.0546 (0.044)	0.0809 (0.041)
Phenanthrene	190000	10000	0.419 (0.045)	0.84 (0.038)	0.135 (0.061)	0.045 (0.04)	0.166 (0.046)	0.16 (0.044)	0.235 (0.041)
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	0.955 (0.045)	2.8 (0.038)	0.228 (0.061)	0.124 (0.04)	0.309 (0.046)	0.389 (0.044)	ND (0.041)
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	45 (2.1)	181 (2.3)	103 (2)	168 (2.4)	1020 (2.9)	420 (2.7)	333 (2.4)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location			BH-01-09	BH-03-09	BH-04-09	BH-20-07	BH-25-09	BH-33-07	BH-33-09
Field Sample ID	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	BH-01-09	BH-03-09	BH-04-09	BH-20-07_0.75-2.0	BH-25-09	BH-33-07_1-2	BH-33-09
Collection Depth (ft bgs)			0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.8 - 2.0	0.0 - 2.0	1.0 - 2.0	0.0 - 2.0
Sample Date			4/7/2009	4/7/2009	4/7/2009	7/11/2007	4/7/2009	4/4/2007	7/9/2009
Comments									
Volatile Organic Compounds									
Benzene	280	0.5	NA	NA	NA	NA	ND (0.36)	NA	NA
Cumene	10000	2500	NA	NA	NA	NA	ND (0.36)	NA	NA
1,2-Dibromoethane	3.7	0.005	NA	NA	NA	NA	ND (0.36)	NA	NA
1,2-Dichloroethane	85	0.5	NA	NA	NA	NA	ND (0.36)	NA	NA
Ethyl Benzene	880	70	NA	NA	NA	NA	ND (0.36)	NA	NA
Methyl tert-butyl ether	8500	2	NA	NA	NA	NA	ND (0.36)	NA	NA
Toluene	10000	100	NA	NA	NA	NA	ND (0.36)	NA	NA
1,2,4-Trimethylbenzene	4700	300	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	4700	93	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	7900	1000	NA	NA	NA	NA	ND (0.36)	NA	NA
Semivolatile Organic Compounds									
Anthracene	190000	350	NA	NA	NA	NA	0.42 (0.23)	NA	NA
Benzo(a)anthracene	130	340	NA	NA	NA	NA	0.79 (0.23)	NA	NA
Benzo(a)pyrene	91	46	NA	NA	NA	NA	0.81 (0.23)	NA	NA
Benzo(b)fluoranthene	76	170	NA	NA	NA	NA	1 (0.23)	NA	NA
Benzo(g,h,i)perylene	190000	180	NA	NA	NA	NA	0.53 (0.23)	NA	NA
Chrysene	760	230	NA	NA	NA	NA	0.85 (0.23)	NA	NA
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	NA	NA	NA	NA	0.34 (0.23)	NA	NA
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	NA	NA	NA	NA	0.25 (0.23)	NA	NA
Phenanthrene	190000	10000	NA	NA	NA	NA	1.1 (0.23)	NA	NA
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	NA	NA	NA	NA	1.3 (0.23)	NA	NA
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	494 (1.58)	316 (1.79)	1810 (8.17)	21.7 (0.58)	1100 (2.76)	3190 (0.99)	790 (2.75)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	BH-34-09	BH-35-09	BH-36-09	BH-43-09	BH-44-09	GP219_04042017_1_12	GP219_04042017_1_2
Field Sample ID			BH-34-09	BH-35-09	BH-36-09	BH-43-09	BH-44-09	PES-GP219-006G-040417 (1-12)	PES-GP219-004G-040417 (1-2)
Collection Depth (ft bgs)			0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	2	2
Sample Date			7/9/2009	7/9/2009	7/9/2009	7/9/2009	7/9/2009	4/4/2017	4/4/2017
Comments									
Volatile Organic Compounds									
Benzene	280	0.5	NA	NA	NA	ND (0.006)	ND (0.29)	0.007 J (0.01)	0.006 J (0.006)
Cumene	10000	2500	NA	NA	NA	NA	NA	ND (0.01)	ND (0.006)
1,2-Dibromoethane	3.7	0.005	NA	NA	NA	NA	NA	ND (0.0067)	ND (0.00064)
1,2-Dichloroethane	85	0.5	NA	NA	NA	NA	NA	ND (0.01)	ND (0.006)
Ethyl Benzene	880	70	NA	NA	NA	NA	NA	ND (0.01)	0.003 J (0.006)
Methyl tert-butyl ether	8500	2	NA	NA	NA	NA	NA	ND (0.01)	ND (0.006)
Toluene	10000	100	NA	NA	NA	NA	NA	0.005 J (0.01)	0.013 (0.006)
1,2,4-Trimethylbenzene	4700	300	NA	NA	NA	NA	NA	ND (0.01)	0.004 J (0.006)
1,3,5-Trimethylbenzene	4700	93	NA	NA	NA	NA	NA	ND (0.01)	0.001 J (0.006)
Xylenes (total)	7900	1000	NA	NA	NA	NA	NA	ND (0.01)	0.012 (0.006)
Semivolatile Organic Compounds									
Anthracene	190000	350	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	130	340	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	91	46	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	76	170	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	190000	180	NA	NA	NA	NA	NA	NA	NA
Chrysene	760	230	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	190000	10000	NA	NA	NA	NA	NA	NA	NA
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	NA	NA	NA	NA	NA	NA	NA
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	485 (1.4)	772 (2.62)	374 (1.46)	NA	NA	NA	NA

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	GP219_04042017_1_7	PE-1A-14-1	PE-1A-14-2	PE-1A-14-3	PE-1A-14-4	PE-1A-14-5	PE-1A-14-6
Field Sample ID			PES-GP219-005G-040417 (1-7)	PE-1A-14-1	PE-1A-14-2	PE-1A-14-3	PE-1A-14-4	PE-1A-14-5	PE-1A-14-6
Collection Depth (ft bgs)			2	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date			4/4/2017	3/26/2014	3/26/2014	3/26/2014	3/26/2014	3/26/2014	3/26/2014
Comments									
Volatile Organic Compounds									
Benzene	280	0.5	ND (0.32)	ND (0.0018)	ND (0.0024)	ND (0.0021)	ND (0.0021)	ND (0.0019)	ND (0.0018)
Cumene	10000	2500	ND (0.32)	0.0033 J (0.009)	0.0606 (0.012)	0.0782 (0.011)	0.0595 (0.011)	0.0528 (0.0093)	0.0053 J (0.009)
1,2-Dibromoethane	3.7	0.005	ND (0.006)	ND (0.0043)	ND (0.0046)	ND (0.0044)	ND (0.0046)	ND (0.0042)	ND (0.0037)
1,2-Dichloroethane	85	0.5	ND (0.32)	ND (0.0018)	ND (0.0024)	ND (0.0021)	ND (0.0021)	ND (0.0019)	ND (0.0018)
Ethyl Benzene	880	70	ND (0.32)	ND (0.0018)	0.00085 J (0.0024)	0.00082 J (0.0021)	ND (0.0021)	0.0026 (0.0019)	ND (0.0018)
Methyl tert-butyl ether	8500	2	ND (0.32)	ND (0.0018)	ND (0.0024)	ND (0.0021)	ND (0.0021)	ND (0.0019)	ND (0.0018)
Toluene	10000	100	0.069 J (0.32)	ND (0.0018)	ND (0.0024)	ND (0.0021)	ND (0.0021)	ND (0.0019)	ND (0.0018)
1,2,4-Trimethylbenzene	4700	300	0.24 J (0.32)	ND (0.009)	0.0093 J (0.012)	0.0173 (0.011)	0.0181 (0.011)	0.0076 J (0.0093)	0.0012 J (0.009)
1,3,5-Trimethylbenzene	4700	93	ND (0.32)	ND (0.009)	0.0232 (0.012)	0.0218 (0.011)	0.0202 (0.011)	0.0018 J (0.0093)	ND (0.009)
Xylenes (total)	7900	1000	ND (0.32)	0.00097 J (0.0018)	0.0071 (0.0024)	0.0164 (0.0021)	0.0135 (0.0021)	0.0095 (0.0019)	0.0042 (0.0018)
Semivolatile Organic Compounds									
Anthracene	190000	350	NA	4.93 (0.52)	1.38 (0.063)	17.1 (0.57)	45.5 (1.2)	0.546 (0.056)	1.5 (0.047)
Benzo(a)anthracene	130	340	NA	4.88 (0.52)	2.31 (0.063)	16.1 (0.57)	37.2 (1.2)	0.447 (0.056)	1.4 (0.047)
Benzo(a)pyrene	91	46	NA	4.44 (0.052)	2.28 (0.063)	14 (0.57)	31.5 (1.2)	0.803 (0.056)	1.69 (0.047)
Benzo(b)fluoranthene	76	170	NA	4.26 (0.052)	2.28 (0.063)	13.1 (0.57)	30.7 (1.2)	0.819 (0.056)	1.61 (0.047)
Benzo(g,h,i)perylene	190000	180	NA	1.91 (0.052)	0.88 (0.063)	4.64 (0.057)	10.7 (1.2)	0.825 (0.056)	1.9 (0.047)
Chrysene	760	230	NA	4.58 (0.52)	2.53 (0.063)	17.2 (0.57)	35.9 (1.2)	0.527 (0.056)	2.1 (0.047)
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	NA	5.98 (0.52)	1.8 (0.063)	14.2 (0.57)	42.8 (1.2)	0.977 (0.056)	2.27 (0.047)
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	NA	0.942 (0.052)	1.04 (0.063)	4.68 (0.057)	5.47 (0.061)	0.434 (0.056)	0.487 (0.047)
Phenanthrene	190000	10000	NA	19.8 (0.52)	5.79 (0.063)	56.8 (0.57)	216 (4.9)	1.49 (0.056)	6.41 (0.19)
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	NA	11.1 (0.52)	5.49 (0.063)	41.6 (0.57)	93.2 (1.2)	0.619 (0.056)	2.31 (0.047)
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	NA	47.5 (3.5)	105 (3.6)	287 (3.3)	332 (3.5)	723 (3.4)	404 (3.1)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	PE-1A-14-7	PE-1A-14-8	PE-1B-14-1	PE-1B-14-2	PE-1B-14-3	PE-1B-14-4	PE-1B-14-5
Field Sample ID			PE-1A-14-7	PE-1A-14-8	PE-1B-14-1	PE-1B-14-2	PE-1B-14-3	PE-1B-14-4	PE-1B-14-5
Collection Depth (ft bgs)			2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
Sample Date			3/26/2014	3/26/2014	3/25/2014	3/25/2014	3/25/2014	3/25/2014	3/25/2014
Comments									
Volatile Organic Compounds									
Benzene	280	0.5	ND (0.0017)	ND (0.0017)	ND (0.13)	ND (0.15)	ND (0.0016)	ND (0.0017)	ND (0.0022)
Cumene	10000	2500	0.0547 (0.0084)	0.0043 J (0.0087)	0.0268 J (0.66)	ND (0.77)	ND (0.008)	0.00079 J (0.0086)	0.0106 J (0.011)
1,2-Dibromoethane	3.7	0.005	ND (0.0043)	ND (0.0044)	ND (0.0042)	ND (0.0043)	ND (0.004)	ND (0.0039)	ND (0.0046)
1,2-Dichloroethane	85	0.5	ND (0.0017)	ND (0.0017)	ND (0.13)	ND (0.15)	ND (0.0016)	ND (0.0017)	ND (0.0022)
Ethyl Benzene	880	70	ND (0.0017)	ND (0.0017)	0.0497 J (0.13)	0.0549 J (0.15)	ND (0.0016)	ND (0.0017)	ND (0.0022)
Methyl tert-butyl ether	8500	2	ND (0.0017)	ND (0.0017)	ND (0.13)	ND (0.15)	ND (0.0016)	ND (0.0017)	ND (0.0022)
Toluene	10000	100	ND (0.0017)	ND (0.0017)	0.187 (0.13)	0.204 (0.15)	ND (0.0016)	ND (0.0017)	ND (0.0022)
1,2,4-Trimethylbenzene	4700	300	0.0117 (0.0084)	0.00067 J (0.0087)	0.0618 J (0.66)	0.047 J (0.77)	0.00036 J (0.008)	0.0014 J (0.0086)	0.0031 J (0.011)
1,3,5-Trimethylbenzene	4700	93	0.0159 (0.0084)	ND (0.0087)	ND (0.66)	ND (0.77)	ND (0.008)	ND (0.0086)	0.0011 J (0.011)
Xylenes (total)	7900	1000	0.0083 (0.0017)	0.0018 (0.0017)	0.141 (0.13)	0.134 J (0.15)	0.00039 J (0.0016)	0.0024 (0.0017)	0.005 (0.0022)
Semivolatile Organic Compounds									
Anthracene	190000	350	19 (0.5)	0.863 (0.056)	0.585 (0.054)	1.05 (0.05)	0.236 (0.05)	0.81 (0.22)	0.98 (0.062)
Benzo(a)anthracene	130	340	21.1 (0.5)	1.07 (0.056)	0.925 (0.054)	1.88 (0.05)	0.248 (0.05)	0.428 (0.22)	1.11 (0.062)
Benzo(a)pyrene	91	46	19.2 (0.5)	1.66 (0.056)	2.17 (0.054)	4.08 (0.05)	0.474 (0.05)	0.584 (0.22)	1.54 (0.062)
Benzo(b)fluoranthene	76	170	19.5 (0.5)	1.7 (0.056)	1.86 (0.054)	3.57 (0.05)	0.454 (0.05)	0.644 (0.22)	1.41 (0.062)
Benzo(g,h,i)perylene	190000	180	3.93 (0.05)	1.57 (0.056)	1.37 (0.054)	2.49 (0.05)	0.553 (0.05)	0.809 (0.22)	1.12 (0.062)
Chrysene	760	230	20.3 (0.5)	1.58 (0.056)	1.25 (0.054)	2.57 (0.05)	0.337 (0.05)	1.02 (0.22)	1.36 (0.062)
2,4-Dimethylphenol	10000	190	NA	NA	NA	NA	NA	NA	NA
Fluorene	130000	3800	12 (0.5)	1.34 (0.056)	0.308 (0.054)	0.613 (0.05)	0.189 (0.05)	0.926 (0.22)	1.38 (0.062)
2-Methylphenol	160000	490	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA	NA	NA	NA	NA
Naphthalene	66	25	3.24 (0.05)	0.382 (0.056)	0.721 (0.054)	1.36 (0.05)	0.138 (0.05)	0.486 (0.22)	0.477 (0.062)
Phenanthrene	190000	10000	66.6 (1)	2.81 (0.056)	0.849 (0.054)	1.56 (0.05)	0.138 (0.05)	1.93 (0.22)	3 (0.062)
Phenol	16000	200	NA	NA	NA	NA	NA	NA	NA
Pyrene	96000	2200	53.6 (1)	1.88 (0.056)	1.45 (0.054)	2.33 (0.05)	0.393 (0.05)	1.23 (0.22)	2.27 (0.062)
PFAS									
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA	NA	NA	NA	NA
Metals									
Cyanide (total)	1900	200	NA	NA	NA	NA	NA	NA	NA
Lead	1000	450	111 (3.5)	326 (3.5)	364 (3.5)	381 (3.5)	305 (3.4)	216 (3.2)	260 (3.7)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table D1
Historical Soil Analytical Results
Tank Group 08
Bellwether District Holdings, LLC, Philadelphia, PA

Location Field Sample ID Collection Depth (ft bgs) Sample Date Comments	Non-Res Direct Contact with Soil MSC	Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC	PE-1B-14-6 PE-1B-14-6 2.0 - 2.5 3/25/2014	PE-1B-14-7 PE-1B-14-7 2.0 - 2.5 3/25/2014	PE-1B-14-8 PE-1B-14-8 2.0 - 2.5 3/25/2014
Volatile Organic Compounds					
Benzene	280	0.5	ND (0.0021)	ND (0.0021)	ND (0.0019)
Cumene	10000	2500	0.0034 J (0.011)	0.00052 J (0.01)	0.0011 J (0.0094)
1,2-Dibromoethane	3.7	0.005	ND (0.0039)	ND (0.0044)	ND (0.0041)
1,2-Dichloroethane	85	0.5	ND (0.0021)	ND (0.0021)	ND (0.0019)
Ethyl Benzene	880	70	ND (0.0021)	ND (0.0021)	ND (0.0019)
Methyl tert-butyl ether	8500	2	ND (0.0021)	ND (0.0021)	ND (0.0019)
Toluene	10000	100	ND (0.0021)	ND (0.0021)	ND (0.0019)
1,2,4-Trimethylbenzene	4700	300	0.0013 J (0.011)	ND (0.01)	ND (0.0094)
1,3,5-Trimethylbenzene	4700	93	ND (0.011)	ND (0.01)	ND (0.0094)
Xylenes (total)	7900	1000	0.0041 (0.0021)	ND (0.0021)	0.00052 J (0.0019)
Semivolatile Organic Compounds					
Anthracene	190000	350	0.515 (0.26)	0.374 (0.058)	0.354 (0.052)
Benzo(a)anthracene	130	340	0.586 (0.26)	0.566 (0.058)	0.397 (0.052)
Benzo(a)pyrene	91	46	0.687 (0.26)	0.968 (0.058)	0.628 (0.052)
Benzo(b)fluoranthene	76	170	0.675 (0.26)	1.1 (0.058)	0.632 (0.052)
Benzo(g,h,i)perylene	190000	180	0.691 (0.26)	0.911 (0.058)	0.624 (0.052)
Chrysene	760	230	0.832 (0.26)	0.703 (0.058)	0.479 (0.052)
2,4-Dimethylphenol	10000	190	NA	NA	NA
Fluorene	130000	3800	0.569 (0.26)	0.425 (0.058)	0.37 (0.052)
2-Methylphenol	160000	490	NA	NA	NA
3&4-Methylphenol	16000	49	NA	NA	NA
Naphthalene	66	25	0.396 (0.26)	0.38 (0.058)	0.43 (0.052)
Phenanthrene	190000	10000	1.14 (0.26)	0.849 (0.058)	0.743 (0.052)
Phenol	16000	200	NA	NA	NA
Pyrene	96000	2200	1.04 (0.26)	0.792 (0.058)	0.552 (0.052)
PFAS					
Perfluorobutanesulfonic Acid (PFBS)	10000	--	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	--	--	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	--	--	NA	NA	NA
Perfluorononanoic Acid (PFNA)	--	--	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	64	--	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	64	--	NA	NA	NA
Metals					
Cyanide (total)	1900	200	NA	NA	NA
Lead	1000	450	306 (3.1)	333 (3.7)	184 (3.4)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 Grey shaded concentrations exceed the Non-Res Direct Contact with Soil MSC.
3 Underlined concentrations exceed the Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Appendix E

Tank Registration Amendment Forms

NorthStar
Contracting Group, Inc.

2250 E Adams Ave • Philadelphia, PA 19124
Office: 215.533.8890 • Fax: 215.533.8897
Website • www.NorthStar.com

December 21, 2021

Pennsylvania Department of Environmental Protection
Southeast Regional Office
Division of Storage Tanks
2 East Main Street
Norristown, Pennsylvania 19401
Via email: RA-serotanks@pa.gov, ra-tanks@pa.gov

Re: Philadelphia Energy Solutions Refining and Marketing, LLC (PESRM)
Above Ground Storage Tanks Change in Status

To whom it may concern:

Please find attached the Storage Tank Registration/Permitting Application Forms that support the information listed in the following table. Four (4) AST's have been removed from the Point Breeze Process Area and One (1) AST was removed from the Girard Point Process Area. In addition to these five removals the status of one (1) AST at the Girard Point Process Area has been changed from Currently In Use "C" to Temporarily Out of Service "T".

Removed					
Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Point Breeze Refinery	51-33620	058A	PB 884	P-602	11/01/2021
Point Breeze Refinery	51-33620	040A	PB 191	P-546	11/23/2021
Point Breeze Refinery	51-33620	057A	PB 883	P-601	11/24/2021
Point Breeze Refinery	51-33620	047A	PB 823	P-576	12/03/2021
Girard Point Refinery	51-33624	015A	GP 225	P-146	11/15/2021
Amended					
Girard Point Refinery	51-33624	066A	GP 973	N/A	11/15/2021

If you have any questions, please do not hesitate to contact me at 440.228.1524

Respectfully Submitted,

Robert Armstrong
Sr. Project Manager
NorthStar Contracting Group, Inc.
cc:

Gary Bowman (NorthStar)
Dr. Kassahun Sellassie (AMS)
Thomas Barsley (AMS)
Edward Wiener (AMS)
Charles Barksdale (Hilco)
Mike Leonardo (Hilco

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

December 14, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC (PES)**
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33620 - Point Breeze Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is attaching the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tanks Registration/Permitting Application Form for the removal of the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Point Breeze Refinery	51-33620	058A	PB 884	P-602	11/01/2021

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,

JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-PM-BECB0514 Rev. 6/2019
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
51-33620 **Facility ID #**	**Client ID#**
	Site ID#
	Account #
	Auth ID#
Phila Ref Point Breeze **Facility Name**	**APS ID#**
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
298341		☐ Volunteer Fire Co/EMS Org	☐ State Govt	☐ Fed Govt

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
3144 West Passyunk Avenue				
Address Last Line – City	**State**	**ZIP+4**	**Country**	
Philadelphia	PA	19145	USA	
Client Contact Last Name	**First Name**	**MI**	**Suffix**	
Bowman	Gary	P.	Sr,	
Client Contact Title		**Phone**	**Ext**	
President		610-636-4574		
E-mail Address			**FAX**	
Gbowman@northstar.com				

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

Horizontal Accuracy Measure Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City **State** **ZIP+4**

Previous Facility ID#

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature **Title** **Date**

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.
Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place
Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
058A	T	R	F	01/01/1974	11/01/2021	13,158,600		Crude Oil		
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # 058A	Tank #	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☐	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Gary Bowman

Owner Signature	Title	Date
	President	12/16/2021

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
- ☒ Site Contact
- ☒ Facility Operator
- ☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Avenue				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
Gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
058A	Kristian Satterthwaite		5081	AFR	1557	Kristian Satterthwaite	11/23/2021

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications, that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

December 14, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC (PES)**
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33620 - Point Breeze Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is attaching the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tanks Registration/Permitting Application Form for the removal of the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Point Breeze Refinery	51-33620	040A	PB 191	P-546	11/23/2021

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,
JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-PM-BECB0514 Rev. 6/2019
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
51-33620 Facility ID #	Client ID#
	Site ID#
	Account #
	Auth ID#
Phila Ref Point Breeze Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
298341		☐ Volunteer Fire Co/EMS Org	☐ State Govt	☐ Fed Govt

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
3144 West Passyunk Avenue				
Address Last Line – City	**State**	**ZIP+4**	**Country**	
Philadelphia	PA	19145	USA	
Client Contact Last Name	**First Name**	**MI**	**Suffix**	
Bowman	Gary	P.	Sr.	
Client Contact Title		**Phone**	**Ext**	
President		610-636-4574		
E-mail Address			**FAX**	
Gbowman@northstar.com				

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	**Latitude**			**Longitude**		
	Degrees	**Minutes**	**Seconds**	**Degrees**	**Minutes**	**Seconds**

Horizontal Accuracy Measure Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City **State** **ZIP+4**

Previous Facility ID#

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature **Title** **Date**

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place

Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
040A	T	R	F	01/01/1958	11/23/2021	634,200	Recovered Oil			
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # 040A	Tank #	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☐	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Gary Bowman

Owner Signature	Title	Date
	President	12/16/2021

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
- ☒ Site Contact
- ☒ Facility Operator
- ☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Avenue				
Address Last Line – City	**State**	**ZIP+4**		**Country**
Philadelphia	PA	19124		USA
Contact Title		**Phone**		**Ext.**
President		610-636-4574		
E-mail Address				
Gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
040 A	Kristian Satterthwaite		5081	AFR	1557		

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

December 14, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: Philadelphia Energy Solutions Refining and Marketing, LLC (PES)
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33620 - Point Breeze Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is attaching the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tanks Registration/Permitting Application Form for the removal of the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Point Breeze Refinery	51-33620	057A	PB 883	P-601	11/24/2021

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,
JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-PM-BECB0514 Rev. 6/2019
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
	Client ID#
51-33620 Facility ID #	Site ID#
	Account #
	Auth ID#
Phila Ref Point Breeze Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)
298341		☐ Volunteer Fire Co/EMS Org ☐ State Govt ☐ Fed Govt

Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC		

Individual Last Name	First Name	MI	Suffix	SSN
Bowman	Gary	P.	Sr.	

Additional Individual Last Name	First Name	MI	Suffix	SSN

Mailing Address Line 1	Mailing Address Line 2
3144 West Passyunk Avenue	

Address Last Line – City	State	ZIP+4	Country
Philadelphia	PA	19145	USA

Client Contact Last Name	First Name	MI	Suffix
Bowman	Gary	P.	Sr.

Client Contact Title	Phone	Ext
President	610-636-4574	

E-mail Address	FAX
Gbowman@northstar.com	

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	**Minutes**	**Seconds**	**Degrees**	**Minutes**	**Seconds**

Horizontal Accuracy Measure Feet *--or--* Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet *--or--* Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name			
Employer ID# (EIN) or SSN			
Mailing Address Line 1			
Mailing Address Line 2			
Address Last Line - City		**State**	**ZIP+4**
Previous Facility ID#			

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature	**Title**	**Date**

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.
Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place
Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
057A	C	R	F	01/01/1961	11/24/2021	8,568,600		Crude Oil		
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	057A					
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☐	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Gary Bowman

Owner Signature	Title	Date
	President	12/16/2021

Information & Invoices should be sent to:

- ☒ **Tank Owner Contact**
- ☒ **Site Contact**
- ☒ **Facility Operator**
- ☐ **Other Responsible Party Identified Below**

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**

Mailing Address Line 1	Mailing Address Line 2			
2250 East Adams Avenue				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
Gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
057A	Kristian Satterthwaite		5081	AFR	1557	Kristian Satterthwaite	12/7/2021

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

December 14, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC (PES)**
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33620 - Point Breeze Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is attaching the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tanks Registration/Permitting Application Form for the removal of the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Point Breeze Refinery	51-33620	047A	PB 823	P-576	12/3/2021

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,
JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-PM-BECB0514 Rev. 6/2019
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
51-33620 Facility ID #	Client ID#
	Site ID#
	Account #
	Auth ID#
Phila Ref Point Breeze Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
298341		☐ Volunteer Fire Co/EMS Org	☐ State Govt	☐ Fed Govt

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**

Mailing Address Line 1	Mailing Address Line 2		
3144 West Passyunk Avenue			
Address Last Line – City	**State**	**ZIP+4**	**Country**
Philadelphia	PA	19145	USA
Client Contact Last Name	**First Name**	**MI**	**Suffix**
Bowman	Gary	P.	Sr.
Client Contact Title		**Phone**	**Ext**
President		610-636-4574	
E-mail Address			**FAX**
Gbowman@northstar.com			

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

Horizontal Accuracy Measure Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City **State** **ZIP+4**

Previous Facility ID#

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature **Title** **Date**

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place

Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
047A	T	R	F	01/01/1941	12/03/2021	5,846,400		Low Sulfer Diesel		
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33620 Facility Name Phila Ref Point Breeze

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # 047A	Tank #	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☐	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Gary Bowman

Owner Signature	Title	Date
	President	12/16/2021

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
- ☒ Site Contact
- ☒ Facility Operator
- ☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Avenue				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
Gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
047A	Kristian Satterthwaite	API 650	5081	AFR	1557	Kristian Satterthwaite	12/7/2021

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

December 14, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC (PES)**
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33624 - Girard Point Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is attaching the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tanks Registration/Permitting Application Form for the removal of the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Girard Point Refinery	51-33624	015A	GP 225	P-146	11/15/2021

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,

JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-PM-BECB0514 Rev. 6/2019
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
51-33624 Facility ID #	Client ID#
	Site ID#
	Account #
	Auth ID#
Phila Ref Girard Point Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
298341		☐ Volunteer Fire Co/EMS Org	☐ State Govt	☐ Fed Govt

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**

Mailing Address Line 1	Mailing Address Line 2		
3144 West Passyunk Avenue			
Address Last Line – City	**State**	**ZIP+4**	**Country**
Philadelphia	PA	19145	USA
Client Contact Last Name	**First Name**	**MI**	**Suffix**
Bowman	Gary	P.	Sr.
Client Contact Title		**Phone**	**Ext**
President		610-636-4574	
E-mail Address			**FAX**
Gbowman@northstar.com			

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

Horizontal Accuracy Measure Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City **State** **ZIP+4**

Previous Facility ID#

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature **Title** **Date**

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place

Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
015A	T	R	F	01/01/1973	11/15/2021	3,360,000		Light Cycle Oil		
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Phila Ref Girard Point

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # 015A	Tank #	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☐	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☐	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Gary Bowman

Owner Signature	Title	Date
	President	12/16/2021

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
- ☒ Site Contact
- ☒ Facility Operator
- ☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P.	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Avenue				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
Gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
015A	Kristian Satterthwaite		5081	AFR	1557	Kristian Satterthwaite	11/15/22

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

JD2 Environmental Inc.
800 East Washington Street • West Chester, PA 19380 • 610.430.8151 • 610.430.8016 Fax • www.jd2env.com

November 23, 2021

VIA EMAIL (ELECTRONIC SUBMISSION)

Pennsylvania Department of Environmental Protection
Central Office - Division of Storage Tanks
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17101

Subject: **Philadelphia Energy Solutions Refining and Marketing, LLC (PES)**
PADEP Storage Tank Registration Amendment Form - Change to "T" Status
PADEP Facility ID #51-33624 - Girard Point Refinery

Dear PADEP:

On behalf of our client, JD2 Environmental, Inc. (JD2) is enclosing the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tank Registration Amendment Form to change the status to 'Temporarily Out-of-Use' for the following aboveground storage tank (AST):

Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	TOOU Date
Girard Point Refinery	51-33624	066A	GP 973	N/A	11/15/2021

The tank was taken out of service in accordance with the applicable parts of 25 PA Code Sections 245.562 and 245.617, which included completely emptying the contents from the tank, visual examination of the area surrounding the tank, securing the tank against unauthorized entry and all piping entering or exiting the tank were capped or blinded. As allowed under 25 PA Code Section 245.562(e), In-Service and Out-of-Service inspection intervals will be delayed for the above tank. The delayed inspections shall be conducted prior to placing regulated substance in the tank and return the tank to operating status.

If you have any questions regarding this submittal, please do not hesitate to contact me at (610) 430-8151.

Sincerely yours,
JD2 ENVIRONMENTAL, INC.

Kristian Satterthwaite
Environmental Scientist
PADEP Inspector #5081

KS:wc
Attachment

cc: REPSG

2630-FM-BECB0607 Rev. 8/2012
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANK REGISTRATION AMENDMENT FORM

Before completing this form, read the instructions provided for this form.

I. FACILITY AND CLIENT INFORMATION

Facility ID# 51-33624 **Facility Name** Phila Ref Girard Point

County Philadelphia **Municipality** Philadelphia

Client's Name or Registered Fictitious Name: Philadelphia Energy Solutions Refining and Marketing, LLC

Client ID#: 298341

II. PURPOSE OF SUBMITTAL

☐ Change to **C status**, Currently In Use Tank(s) *
** For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.*

☒ Change to **T status**, Temporarily Out of Use Tank(s)

☐ Change to **E status**, Tank(s) registered in error **only**

☐ Change Capacity

☐ Change Substance

☐ Change Contact Information

III. TANK INFORMATION

Tank #	Change Date (Mo/Day/Yr)	Status	Capacity (Gallons)	Substance Name	CAS# Component %
066A	11/15/2021	T	50,000	Fresh Caustic	

IV. CONTACT INFORMATION

FOR: ☐ Facility Owner ☐ Responsible Official ☒ Facility Operator ☐ Property Owner

Is person below to receive the invoice and registration certificate? ☐ **YES** ☐ **NO**

Last Name: Bowman First Name: Gary MI: P Suffix: Sr.

Phone #: (610) 636-4574 E-mail: Gbowman@northstar.com

Company Name: NorthStar Contracting Group, Inc.

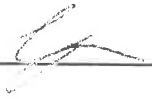
Mailing Address: 2250 East Adams Avenue

City: Philadelphia State: PA ZIP: 19124

V. OWNER SIGNATURE

My signature represents to the Department that I own or represent the owner of the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this form are made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name: Gary Bowman



Owner Signature

(610) 636-4574
Phone

12/16/2021
Date

☐ Facility Owner ☐ Owner's Representative ☒ Facility Operator ☐ Property Owner

2630-FM-BECB0607 Rev. 8/2012
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

STORAGE TANK REGISTRATION AMENDMENT FORM

Before completing this form, read the instructions provided for this form.

I. FACILITY AND CLIENT INFORMATION

Facility ID# 51-33624 **Facility Name** Phila Ref Girard Point

County Philadelphia **Municipality** Philadelphia

Client's Name or Registered Fictitious Name **Client ID#**

Philadelphia Energy Solutions Refining and Marketing, LLC 298341

II. PURPOSE OF SUBMITTAL

☐ Change to **C status**, Currently In Use Tank(s) *

** For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.*

☒ Change to **T status**, Temporarily Out of Use Tank(s)

☐ Change to **E status**, Tank(s) registered in error **only**

☐ Change Capacity

☐ Change Substance

☐ Change Contact Information

III. TANK INFORMATION

Tank #	Change Date (Mo/Day/Yr)	Status	Capacity (Gallons)	Substance Name	CAS# Component %
066A	11/15/2021	T	50,000	Fresh Caustic	

IV. CONTACT INFORMATION

FOR: ☐ Facility Owner ☐ Responsible Official ☒ Facility Operator ☐ Property Owner

Is person below to receive the invoice and registration certificate? ☐ **YES** ☐ **NO**

Last Name: Bowman First Name: Gary MI: P Suffix: Sr.

Phone #: (610) 636-4574 E-mail: Gbowman@northstar.com

Company Name: NorthStar Contracting Group, Inc.

Mailing Address: 2250 East Adams Avenue

City: Philadelphia State: PA ZIP: 19124

V. OWNER SIGNATURE

My signature represents to the Department that I own or represent the owner of the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this form are made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name: Gary Bowman

Owner Signature	Phone	Date
	(610) 636-4574	12/16/2021

☐ Facility Owner ☐ Owner's Representative ☒ Facility Operator ☐ Property Owner

NorthStar
Contracting Group, Inc.

2250 E Adams Ave • Philadelphia, PA 19124
Office: 215.533.8890 • Fax: 215.533.8897
Website • www.NorthStar.com

September 9, 2022

Pennsylvania Department of Environmental Protection
Southeast Regional Office
Division of Storage Tanks
2 East Main Street
Norristown, Pennsylvania 19401

Via email: RA-serotanks@pa.gov, ra-tanks@pa.gov

Re: Philadelphia Energy Solutions Refining and Marketing, LLC (PES)
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33624 – Girard Point Refinery

To whom it may concern:

Please find NorthStar Contracting Group, Inc.'s submittal of the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tank Registration/Permitting Application Forms for the removal of the following two (2) Aboveground storage tanks located at the Philadelphia Energy Solutions Refining and Marketing, LLC Girard Point Processing Area.

Removed					
Facility Name	PADEP Facility ID #	PADEP Tank ID #	Owner Tank ID #	AMS Tank ID #	Removal Date
Girard Point Refinery	51-33624	O16A	GP-227	P-147 (GP)	8/26/2022
Girard Point Refinery	51-33624	022A	GP-272	P- 012 (GP)	9/9/2022

If you have any questions, please do not hesitate to contact me at 440-228-1524.
Respectfully Submitted,

Robert Armstrong
Sr. Project Manager
NorthStar Contracting Group, Inc.

Enclosures: Storage Tank Registration/Permitting Application Form

cc:

Gary Bowman (NorthStar)
Dr. Kassahun Sellassie (AMS)
Thomas Barsley (AMS)
Charles Barksdale (Hilco)
Edward Wiener (AMS)
Mike Leopnardo (Hilco)

2630-PM-BECB0514 Rev. 6/2019
Form

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
51-33624 Facility ID #	Client ID#
	Site ID#
	Account #
	Auth ID#
Phila Ref Girard Point Process Area Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

* **For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
298341		☐ Volunteer Fire Co/EMS Org	☐ State Govt	☐ Fed Govt

Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC		

Individual Last Name	First Name	MI	Suffix	SSN
Bowman	Gary	P	Sr.	

Additional Individual Last Name	First Name	MI	Suffix	SSN

Mailing Address Line 1	Mailing Address Line 2		
3144 West Passyunk Avenue			
Address Last Line – City	**State**	**ZIP+4**	**Country**
Philadelphia	PA	19145	USA

Client Contact Last Name	First Name	MI	Suffix
Bowman	Gary	P	Sr.

Client Contact Title	Phone	Ext
President	610-636-4574	

E-mail Address	FAX
gbowman@northstar.com	

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	**Latitude**			**Longitude**		
	Degrees	**Minutes**	**Seconds**	**Degrees**	**Minutes**	**Seconds**

Horizontal Accuracy Measure Feet --or-- Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet --or-- Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name

Employer ID# (EIN) or SSN

Mailing Address Line 1

Mailing Address Line 2

Address Last Line - City **State** **ZIP+4**

Previous Facility ID#

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature **Title** **Date**

Facility ID# 51-33624 Facility Name Girard Point Process Area

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.
Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place
Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
016A	C	R	F	1954	08-26-2022	3,385,200	Main Frac Bottoms			
022A	C	R	F	1941	09-09-2022	3,045,000	Recovered Oil			

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# Facility Name

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Aboveground Piping Construction & Corrosion Protection (3)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Overfill Prevention (7)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# 51-33624 Facility Name Girard Point Process Area

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	Tank # 016A	Tank # 022A	Tank #	Tank #	Tank #	Tank #
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☒	☐	☐	☐	☐
3. Closure document kept on file by owner.	☒	☒	☐	☐	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name : Gary Bowman

Owner Signature	Title	Date
	President	09-09-2022

Information & Invoices should be sent to:

- ☒ Tank Owner Contact
- ☒ Site Contact
- ☒ Facility Operator
- ☐ Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Ave.				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
016A	Brian Gerner	API 12C	5341	AFMX	1631		9/9/2022
022A	Brian Gerner	API 12C	5341	AFMX	1631		9/9/2022

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

NorthStar
Contracting Group, Inc.

2250 E Adams Ave • Philadelphia, PA 19124
Office: 215.533.8890 • Fax: 215.533.8897
Website • www.NorthStar.com

April 27, 2022

Pennsylvania Department of Environmental Protection
Southeast Regional Office
Division of Storage Tanks
2 East Main Street
Norristown, Pennsylvania 19401
Via email: RA-serotanks@pa.gov, ra-tanks@pa.gov

Re: Philadelphia Energy Solutions Refining and Marketing, LLC (PES)
PADEP Storage Tanks Registration/Permitting Application Form
PADEP Facility ID #51-33624 – Girard Point Refinery

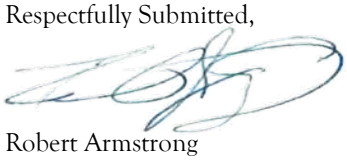
To whom it may concern:

Please find NorthStar Contracting Group, Inc.'s submittal of the Pennsylvania Department of Environmental Protection's (PADEP's) Storage Tank Registration/Permitting Application Form for the removal of the following four (4) aboveground storage tanks located at the Philadelphia Energy Solutions Refining and Marketing, LLC Girard Point site.

Removed					
Facility Name	**PADEP Facility ID #**	**PADEP Tank ID #**	**Owner Tank ID #**	**AMS Tank ID #**	**Removal Date**
Girard Point Refinery	51-33624	59A	GP-217	P-005	04/05/2022
Girard Point Refinery	51-33624	001A	GP-219	P-144	04/08/2022
Girard Point Refinery	51-33624	023A	GP-276	P-034	04/06/2022
Girard Point Refinery	51-33624	025A	GP-281	P-150	04/19/2022

If you have any questions, please do not hesitate to contact me at 440-228-1524.

Respectfully Submitted,



Robert Armstrong
Sr. Project Manager
NorthStar Contracting Group, Inc.
Enclosures: Storage Tank Registration/Permitting Application Form

cc:

Gary Bowman (NorthStar)
Dr. Kassahun Sellassie (AMS)
Thomas Barsley (AMS)
Charles Barksdale (Hilco)
Edward Wiener (AMS)
Mike Leonardo (Hilco)

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

STORAGE TANKS REGISTRATION / PERMITTING APPLICATION FORM

Before completing this form, read the step-by-step instructions provided in this application package.

	DEP USE ONLY
	Client ID#
51-33624 Facility ID #	Site ID#
	Account #
	Auth ID#
Phila Ref Girard Point Facility Name	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- ☐ Register Tanks(s) to be Used*
- ☐ Register Tank(s) to be Removed
- ☐ Register Tank(s) to be Temporarily Out of Use
- ☐ Register Tank(s) to be Closed in Place

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- ☐ Changed Owner Information
- ☐ Changed Facility Information
- ☐ Changed to Currently In Use Tank(s)*
- ☐ Changed to Temporarily Out of Use Tank(s)
- ☐ Changed Product
- ☐ Changed Contact Information
- ☐ Changed Facility Operator Information
- ☐ Added Tank(s) to Existing Facility*
- ☒ Changed to Permanently Closed Tank(s)/Removed
- ☐ Changed to Exempt Tank(s)

CHANGE OF OWNERSHIP

- ☐ Tanks Changed Ownership and Remain at Same Facility*

*** For Underground Storage Tanks (UST), attach the UST Operator Training Documentation Form (2630-PM-BECB0514a) and copies of the Class A and Class B operator training certificates.**

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)
298341		☐ Volunteer Fire Co/EMS Org ☐ State Govt ☐ Fed Govt

Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#
Philadelphia Energy Solutions Refining and Marketing, LLC		

Individual Last Name	First Name	MI	Suffix	SSN
Bowman	Gary	P	Sr.	

Additional Individual Last Name	First Name	MI	Suffix	SSN

Mailing Address Line 1	Mailing Address Line 2
3144 West Passyunk Avenue	

Address Last Line – City	State	ZIP+4	Country
Philadelphia	PA	19145	USA

Client Contact Last Name	First Name	MI	Suffix
Bowman	Gary	P	Sr.

Client Contact Title	Phone	Ext
President	610-636-4574	

E-mail Address	FAX
gbowman@northstar.com	

III. SITE INFORMATION

DEP Site ID# | Site Name

EPA ID# | Estimated Number of Employees to be Present at Site

Description of Site

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

County Name | Municipality | City ☐ | Boro ☐ | Twp ☐ | State

Site Location Line 1 | Site Location Line 2

Site Location Last Line – City | State | ZIP+4

Detailed Written Directions to Site

Site Contact Last Name | First Name | MI | Suffix

Site Contact Title | Site Contact Firm

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4

Phone | Ext | FAX | E-mail Address

NAICS Codes (Two- & Three-Digit Codes – List All That Apply) | 6-Digit Code (Optional)

Site to Client Relationship

IIIa. PROPERTY OWNER INFORMATION

☐ Same as Tank Owner Identified in Section II. ☐ Different than Tank Owner Identified in Section II; identified below.

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID#

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Line 1 | Mailing Address Line 2

Address Last Line – City | State | ZIP+4 | Country

Property Owner Contact Last Name | First Name | MI | Suffix

Property Owner Contact Title | Phone | Ext

E-mail Address | FAX

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# | **Facility Name** | **Facility Kind**

Facility Location Line 1 (if different than Site Location) | **Facility Location Line 2**

Facility Location Last Line - City | **State** | **ZIP+4**

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	**Minutes**	**Seconds**	**Degrees**	**Minutes**	**Seconds**

Horizontal Accuracy Measure Feet *--or--* Meters

Horizontal Reference Datum Code
- ☐ North American Datum of 1927
- ☐ North American Datum of 1983
- ☐ World Geodetic System of 1984

Horizontal Collection Method Code

Reference Point Code

Altitude Feet *--or--* Meters

Altitude Datum Name
- ☐ The National Geodetic Vertical Datum of 1929
- ☐ The North American Vertical Datum of 1988 (NAVD88)

Altitude (Vertical) Location Datum Collection Method Code

Geometric Type Code

Data Collection Date

Source Map Scale Number Inch(es) = Feet

--or-- Centimeter(s) = Meters

Flammable & Combustible Liquid Permit # (if applicable)

State or Municipality that Issued the Permit

FACILITY OPERATOR INFORMATION

☐ **Same as Owner Identified in Section II.** ☐ **Different than Owner Identified in Section II; identified below.**

DEP Client ID# | **Client Type / Code**

Organization Name or Registered Fictitious Name | **Employer ID# (EIN)** | **Dun & Bradstreet ID#**

Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Additional Individual Last Name | **First Name** | **MI** | **Suffix** | **SSN**

Mailing Address Line 1 | **Mailing Address Line 2**

Address Last Line – City | **State** | **ZIP+4** | **Country**

Client Contact Last Name | **First Name** | **MI** | **Suffix**

Client Contact Title | **Phone** | **Ext**

E-mail Address | **FAX**

V. CHANGE OF OWNERSHIP INFORMATION

☐ **All Tanks Changed Ownership at the Facility**

☐ **Some Tanks Changed Ownership at the Facility** (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II.

OWNERSHIP CHANGE FROM (previous owner information)

Name			
Employer ID# (EIN) or SSN			
Mailing Address Line 1			
Mailing Address Line 2			
Address Last Line - City		**State**	**ZIP+4**
Previous Facility ID#			

DATE OF SALE/TRANSFER	

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. ☐ **Yes** ☐ **No** ☐ **N/A**

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Previous Owner Signature	**Title**	**Date**

Facility ID# Facility Name

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.
Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt R-Removed P-Closed In Place
Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
59A	T	R	F	1955	04/05/2022	1359162		Benzene		
001A	C	R	F	1925	04/08/2022	1665720		Light Cycle Oil		
023A	T	R	F	1945	04/06/2022	3045000		Light Naptha		
025A	T	R	F	1947	04/19/2022	3385200		Vacuum Gas Oil		

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) Substance Name (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code

Facility ID# Facility Name

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an ☒ in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
Tank Manufacturer:						
Model:						
A. Unprotected Steel (Single Wall)	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Steel (Galvanic)	☐	☐	☐	☐	☐	☐
C. Cathodically Protected Steel (Impressed Current)	☐	☐	☐	☐	☐	☐
D. Unprotected Steel (Double Wall)	☐	☐	☐	☐	☐	☐
E. Fiberglass (Single Wall)	☐	☐	☐	☐	☐	☐
F. Fiberglass (Double Wall)	☐	☐	☐	☐	☐	☐
G. Steel w/Plastic or Fiberglass Jacket or Double Wall Act 100	☐	☐	☐	☐	☐	☐
H. Steel With FRP Coating (Act 100 or Equivalent)	☐	☐	☐	☐	☐	☐
I. Steel with Lined Interior	☐	☐	☐	☐	☐	☐
J. Concrete	☐	☐	☐	☐	☐	☐
O. Cathodically Protected Double Wall Steel (Galvanic)	☐	☐	☐	☐	☐	☐
P. Cathodically Protected Steel with Liner	☐	☐	☐	☐	☐	☐
Q. Double Bottom (ASTs Only)	☐	☐	☐	☐	☐	☐
R. Molded Plastic Form (ASTs Only)	☐	☐	☐	☐	☐	☐
S. Stainless Steel	☐	☐	☐	☐	☐	☐
T. Aluminum	☐	☐	☐	☐	☐	☐
U. Fire Protected Double Wall AST	☐	☐	☐	☐	☐	☐
V. Steel with Plastic or Fiberglass Jacket or Double Wall Act 100 with Anodes	☐	☐	☐	☐	☐	☐
W. Steel with FRP Coating (Act 100 or Equivalent) with Anodes	☐	☐	☐	☐	☐	☐
X. Molded Plastic Form (Double Wall) (AST's Only)	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Underground Piping Construction & Corrosion Protection – Single/Inner Wall (28)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
Primary (Inner) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Underground Piping Construction & Corrosion Protection – Outer Wall (29)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
Secondary (Outer) Piping Manufacturer:						
Model:						
A. Bare Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
D. Fiberglass	☐	☐	☐	☐	☐	☐
E. Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
G. No Dispensing Piping	☐	☐	☐	☐	☐	☐
L. Poly-encased Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Aboveground Piping Construction & Corrosion Protection (3)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Carbon Steel	☐	☐	☐	☐	☐	☐
B. Cathodically Protected Metallic	☐	☐	☐	☐	☐	☐
C. Copper	☐	☐	☐	☐	☐	☐
D. Single Wall Fiberglass	☐	☐	☐	☐	☐	☐
E. Single Wall Flexible (Non-Metallic)	☐	☐	☐	☐	☐	☐
F. PVC	☐	☐	☐	☐	☐	☐
G. None	☐	☐	☐	☐	☐	☐
I. Double Wall - Metallic Primary	☐	☐	☐	☐	☐	☐
J. Double Wall - Rigid (FRP) Primary	☐	☐	☐	☐	☐	☐
K. Double Wall - Flexible Primary	☐	☐	☐	☐	☐	☐
L. Stainless Steel	☐	☐	☐	☐	☐	☐
99. Other: _____	☐	☐	☐	☐	☐	☐

Product Delivery System (4)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Suction: Check valve at pump	☐	☐	☐	☐	☐	☐
B. Suction: Check valve at tank	☐	☐	☐	☐	☐	☐
C. Pressure	☐	☐	☐	☐	☐	☐
D. Gravity fed	☐	☐	☐	☐	☐	☐
E. None	☐	☐	☐	☐	☐	☐

Spill Prevention (6)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
S. Permanently installed and liquid tight (single-walled)	☐	☐	☐	☐	☐	☐
D. Permanently installed and liquid tight (double-walled)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Overfill Prevention (7)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Overfill alarm	☐	☐	☐	☐	☐	☐
E. Fill in less than 25 gallons (exempt)	☐	☐	☐	☐	☐	☐
N. None (AST only)	☐	☐	☐	☐	☐	☐
S. Drop tube shutoff device	☐	☐	☐	☐	☐	☐
Y. Yes (AST only) Type: _____	☐	☐	☐	☐	☐	☐

Emergency Containment (16) ASTs only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes (includes double-walled tanks with required appurtenances)	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Secondary Containment (17) Single Wall ASTs only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. No - Explain: _____	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐
V. Underground vault	☐	☐	☐	☐	☐	☐

Stage I Vapor Recovery (19) USTs and ASTs when applicable	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
A. Coaxial	☐	☐	☐	☐	☐	☐
B. 2 Point	☐	☐	☐	☐	☐	☐
N. None or incomplete	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

Tank-top Containment Sumps Present (Product Piping Only) (21) USTs only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some penetrations and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. At all penetrations and liquid tight	☐	☐	☐	☐	☐	☐

Under-dispenser Containment Present (22) USTs only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. None – Explain: _____	☐	☐	☐	☐	☐	☐
S. At some dispensers and liquid tight – Explain: _____	☐	☐	☐	☐	☐	☐
A. Under all dispensers and liquid tight	☐	☐	☐	☐	☐	☐

Line Leak Detector Shuts Off Pump (23) USTs only	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Tank Supplies Emergency Generator (25)	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
N. No	☐	☐	☐	☐	☐	☐
Y. Yes	☐	☐	☐	☐	☐	☐

Facility ID# Facility Name

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an ☒ in the appropriate box for each tank that was removed or closed in place.

Items 2 & 3 below apply to large ASTs and all USTs	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
	59A	**001A**	**023A**	**025A**		
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	☐	☐	☐	☐	☐	☐
2. Closure document submitted to the appropriate DEP regional office.	☒	☒	☒	☒	☐	☐
3. Closure document kept on file by owner.	☒	☒	☒	☒	☐	☐

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name : Gary Bowman

Owner Signature	Title	Date
	President	04/27/2022

Information & Invoices should be sent to:

- ☒ **Tank Owner Contact**
- ☒ **Site Contact**
- ☒ **Facility Operator**
- ☐ **Other Responsible Party Identified Below**

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
NorthStar Contracting Group, Inc.				
Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Bowman	Gary	P	Sr.	
Additional Individual Last Name	**First Name**	**MI**	**Suffix**	**SSN**
Mailing Address Line 1	**Mailing Address Line 2**			
2250 East Adams Ave.				
Address Last Line – City		**State**	**ZIP+4**	**Country**
Philadelphia		PA	19124	USA
Contact Title			**Phone**	**Ext.**
President			610-636-4574	
E-mail Address				
gbowman@northstar.com				
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
59A	Brian Gerner	API 12C	5341	AFMX	1631		4/27/2022
001A	Brian Gerner	API 12C	5341	AFMX	1631		4/27/2022
023A	Brian Gerner	API 12C	5341	AFMX	1631		4/27/2022
025A	Brian Gerner	API 12C	5341	AFMX	1631		4/27/2022

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Inspector Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

Appendix F

Aboveground Storage Tank System Closure Report Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

51-33624
Facility I.D.

Former Philadelphia Refinery Girard Point - Tank Group 8
Facility Name

Philadelphia	Philadelphia
Municipality	County

October 8, 2024
Date Prepared

Kevin L. Long
Name of Person Submitting Report
(Please Print)

Terraphase Engineering Inc.
Company Name
(If Applicable)

Principal Consultant
Title

Closure Method (Check all that apply):

- ☒ AST Removal
- ☐ AST Closure-In-Place
- ☐ AST Change-In-Service

Site Assessment Results (Check all that apply):

- ☒ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☒ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☒ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Extensive Contamination

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

DATE RECEIVED: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing aboveground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4200-001 "Closure Requirements for Aboveground Storage Tank Systems". PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 51-33624
2. Facility Name Former Philadelphia Refinery Girard Point - Tank Group 8
3. Facility County Philadelphia
4. Facility Municipality Philadelphia
5. Facility Address 3144 West Passyunk Avenue
6. Facility Contact Person Anne R. Garr
7. Facility Telephone Number (312) 796-6564
8. Owner Name Bellwether District Holdings, LLC
9. Owner Mailing Address 3144 West Passyunk Avenue, Philadelphia, PA 19153
10. Description of Aboveground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		- -	- -	- -	- -
Description of Aboveground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		See attached Table			
Total Capacity (Gallons)					
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance				
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s): DEP Tank ID Number:					
Partial Storage Tank System Closure		☐	☐	☐	☐
Tank ☐ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☐ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

The tanks and associated piping were evacuated of any sale-able product, which was consolidated / bulked and eventually sold. All materials were either transferred to a slop oil tank through existing piping at the facility or via vacuum truck. When feasible the lines were drained back to the tank, and any product removed using a vacuum truck and stored with the other bulked products for future sale. The associated piping was then cleaned using copious amounts of water, high pressure water and /or purged with air or an inert gas such as nitrogen. Some heavy oil lines were flushed using cutter stock before using water. When required, a thermal Oxidizer was utilized to reduce the LEL inside the tank prior to opening and performing Confined Space Entry for cleaning. When necessary or prudent tanks and/or piping were also purged by pulling the internal atmosphere through activated carbon. Once the piping was cleaned, verification was conducted via a physical walk-down of the system, and painting valves and piping green as each was confirmed to be open and empty. The piping and utilities were then air gapped by the mechanical contractor (Nooter). Air gapping was followed by the simultaneous removal of the piping system and the cleaning the interior of the tank. Interior cleaning was conducted by one of three subcontracted industrial services companies (ACV Enviro, MPW, EISCO) and included when necessary the removal of floating roof seals (EFR/IFR). Pontoons were also inspected prior to demolition and if found to contain free product, they were evacuated and the product consolidated with the other like products stored for future sale. All cleaning water and rinsates were collected via vacuum truck and water was decanted at the wash pad leading to the the on-site WWTPs. The remaining sludges and tank bottoms were stabilized with water absorbing polymers and/or organic products such as kiln dried sawdust to ensure no free liquids in transit. The material was then loaded into intermodal containers (maximum 24 tons per container and 6 containers per rail car), and then placed on rail cars. Bills of lading were generated and sent to the railroad to schedule for pickup. The material was managed under 40 CFR 261.4(a)(24) verified recycling exemption and transported by rail to CWM in Sulphur, LA. Upon completion of the cleaning process the tanks and any remaining piping were dismantled, loaded into scrap recycling trucks and/or containers weighed at the facility scale and transported to a local scrap recycling company.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

    Tank Group 08 was located in the southern portion of the Former Philadelphia Refinery Complex. The tanks in the group held a variety of materials associated with the petroleum refining process.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.

☒ ☐ 13. Original, color photographs of the closure process involving any excavation are attached (i.e., inside of excavation/piping runs, pit water, containment structure and foundation showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.
Date: 12 / 16 / 2021

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 05 / 02 / 2024 Office: Southeast

Yes **N/A**

☒ ☐ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: Usable product was drained from the tanks prior to cleaning and transferred to other on-site storage tanks. The useable product was consolidated and sold. Any residual product was discharged to the on-site process sewer and wastewater treatment system.

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
All tank bottoms to include sediments, sludges containing recoverable oil were managed in accordance with 40 CFR261.4(a)24. When shipped by rail to CWM in Sulphur, LA, the material was solidified using organic agents such as kilndried sawdust to ensure no free liquid during trasnsit, then placed into Inter-modal containers, loaded onto railcars, properly placarded and BOL's were generated and provided to the railroad. When transported to SAREX in West Deptford, NJ, the material was transporterd via vacuum truck and managed under the same exemption 40 CFR 261.4(a)(24). Any wastewater generated from cleaning was treated through the onsite waste water treatment plants (NPDES Permit #s 0012629 (Point Breeze) and 0011533 (Girard Point). Generator ID # PAD 0497910-98

c. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: PAD049791098

(2) Licensed Hazardous Waste Transporter Name and ID Number: Dana Transport, HW ID #40106; Chemical Waste Management - LA 0000777201, BNSF Railway Company - LA 000147272

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning:

b. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
All tanks and associated piping were cleaned, demolished and recycled for scrap value. Pipe and tank scrap was not segregated for transportation to the scrap facility; therefore, a specific quantity of piping or, tank scrap was not detailed in disposal documentation.

☐ ☒ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount _____ (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

Yes **N/A**

☐ ☒ 20. Briefly describe the disposition of and amount _____ (tons) of uncontaminated soil and debris (attach analyses):

☐ ☒ 21. If the tanks were "Closed-in-Place" provide information below:

a. Briefly describe the tank cleaning process: _____

b. If subcontracted, name and address of company that performed the tank cleaning:

c. How were tanks marked/labeled with permanent closure date: _____

I, Bellwether District Holdings, LLC (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Anne R. Garr
Signature of Tank Owner

10 / 2 / 2024
Date

Bellwether District Holdings, LLC

Company Name
(If applicable)

in her capacity as Assistant Secretary to Owner

Title

Section I - Table 1
Description of Aboveground Storage Tank System

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		4/5/2022	4/8/2022	11/15/2021	8/26/2022
Description of Aboveground Storage Tank System		(Complete for each tank system undergoing closure)			
DEP Tank ID Number		059A	001A	015A	016A
Total Capacity (Gallons)		1,359,162	1,665,720	3,360,000	3,385,200
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline				
	Leaded Gasoline				
	Aviation Gasoline				
	Pure Ethanol				
	Blended Ethanol _____%				
	Kerosene				
	Jet Fuel				
	Diesel Fuel				
	Biodiesel _____%				
	Fuel Oil No. 1				
	Fuel Oil No. 2				
	Fuel Oil No. 4				
	Fuel Oil No. 5				
	Fuel Oil No. 6				
	New Motor Oil				
	Used Motor Oil				
	Nonpetroleum Oil, Specify				
	Other, Specify	Benzene	Light Cycle Oil	Light Cycle Oil	Main Frac Bottoms
NOTE: If Hazardous Substance Block is Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**				
	Name of Principal CERCLA Substance				
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown				
CLOSURE METHOD(s):	DEP Tank ID Number:	059A	001A	015A	016A
Partial Storage Tank System Closure					
Tank ☐ N/A	a. Removal	X	X	X	X
	b. Closure-in-Place				
	c. Change-in-Service				
Piping ☐ N/A	a. Removal	X	X	X	X
	b. Closure-in-Place				
	c. Change-in-Service				
Dispenser ☑ N/A	a. Removal				
	b. Closure-in-Place				
	c. Change-in-Service				
Other _____	a. Removal				
	b. Closure-in-Place				
	c. Change-in-Service				

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 33624
DEP Tank ID Number(s) 001A, 016A, 059A

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   Removed tank and piping debris was segregated and loaded into roll-off containers during demolition. Soil excavation was not completed at the time of AST removal.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:

   All the pertinent tank and piping system locations requiring sampling for closure purposes were documented, cleaned, demolished, and recycled for scrap value. In some cases, air gapping and removal of tank system piping prior to the demo of the tank was conducted. No problems or issues concerning the condition of the piping systems were reported.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   None reported.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   Vapors were monitored via an LEL meter. The tanks and associated piping were evacuated of any sale-able product and then cleaned using copious amounts of water, high pressure water and /or purged with air or an inert gas such as nitrogen. Some heavy oil lines were flushed using cutter stock before using water. When required, a thermal oxidizer was utilized to reduce the LEL inside the tank prior to opening and performing Confined Space Entry for cleaning. When necessary or prudent tanks and/or piping were also purged by pulling the internal atmosphere through activated carbon.

☒ ☐ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: The subcontracted companies used to clean tanks were ACV ENVIRO, EISCO, and MPW. Tanks were drained, cut open, rinsed and scrubbed clean of any residuals before demolition. See additional detail on page 3.

   b. If subcontracted, name and address of company that performed the tank cleaning:

      NorthStar Contracting Group, Inc., 2250 East Adams Avenue, Philadelphia, PA 19124
      ACV Enviro, 2527 Market Street, Aston PA 19014
      EISCO, 288 Oak Grove Road, Swedesboro, NJ 08085
      MPW, 9711 Lancaster Road SE, Hebron, OH 43025

☐ ☒ 6. If tanks were “Closed-in-Place”, briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:

I, Brian Gerner (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Remover

9 / 23 / 2024
Date

5341
Remover Certification Number

1631
Company Certification Number

AST Construction
Company Name

5 Canale Drive
Street

Egg harbor Twp, NJ, 08234
City/Town, State, Zip

609 277 71001
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 33624
DEP Tank ID Number(s) 015A

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   Removed tank and piping debris was segregated and loaded into roll-off containers during demolition. Soil excavation was not completed at the time of AST removal.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:

   All the pertinent tank and piping system locations requiring sampling for closure purposes were documented, cleaned, demolished, and recycled for scrap value. In some cases, air gapping and removal of tank system piping prior to the demo of the tank was conducted. No problems or issues concerning the condition of the piping systems were reported.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   None reported.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   Vapors were monitored via an LEL meter. The tanks and associated piping were evacuated of any sale-able product and then cleaned using copious amounts of water, high pressure water and /or purged with air or an inert gas such as nitrogen. Some heavy oil lines were flushed using cutter stock before using water. When required, a thermal oxidizer was utilized to reduce the LEL inside the tank prior to opening and performing Confined Space Entry for cleaning. When necessary or prudent tanks and/or piping were also purged by pulling the internal atmosphere through activated carbon.

☒ ☐ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: The subcontracted companies used to clean tanks were ACV ENVIRO, EISCO, and MPW. Tanks were drained, cut open, rinsed and scrubbed clean of any residuals before demolition. See additional detail on page 3.

   b. If subcontracted, name and address of company that performed the tank cleaning:

      NorthStar Contracting Group, Inc., 2250 East Adams Avenue, Philadelphia, PA 19124
      ACV Enviro, 2527 Market Street, Aston PA 19014
      EISCO, 288 Oak Grove Road, Swedesboro, NJ 08085
      MPW, 9711 Lancaster Road SE, Hebron, OH 43025

☐ ☒ 6. If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:

☒ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, KRISTIAN SATTERTHWAITE, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Kristian Satterthwaite
Signature of Certified Remover

09/26/2024
Date

5081
Remover Certification Number

1557
Company Certification Number

JP2 ENVIRONMENTAL, INC.
Company Name

800 EAST WASHINGTON STREET
Street

WEST CHESTER PA 19380
City/Town, State, Zip

(610) 430-8151
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 059A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 33624

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 1 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO - - - - - → Conduct confirmatory sampling - - - - - → See end of this section for options on submission and maintenance of closure records - - - - - → Do not complete item C.2. below.

☐ YES - - - - - → Report release to DEP within 24 hours - - - - → Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____ - - - - → Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES - - - - → Remove or remediate contaminated soil - - - - → Conduct confirmatory sampling - - - - → See end of this section for options on submission and maintenance of closure records.

☐ NO - - - - → Continue Interim Remedial Actions - - - - → See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO - - - - → Conduct confirmatory sampling - - - - → See end of this section for options on submission and maintenance of closure records.

☐ YES - - - - → Report release to DEP within 24 hours - - - - → Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

Continue with corrective action - - - - → See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Kevin Long , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Kevin L. Long

Signature of Person Performing Site Assessment

09/24/2024 / /
Date

Principal Consultant
Title of Person Performing Site Assessment

Terraphase Engineering Inc.
Name of Company Performing Site Assessment

609-236-8171 x93
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number__51 - 33624______

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
See attached summary table							/ /	/ /
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[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: -

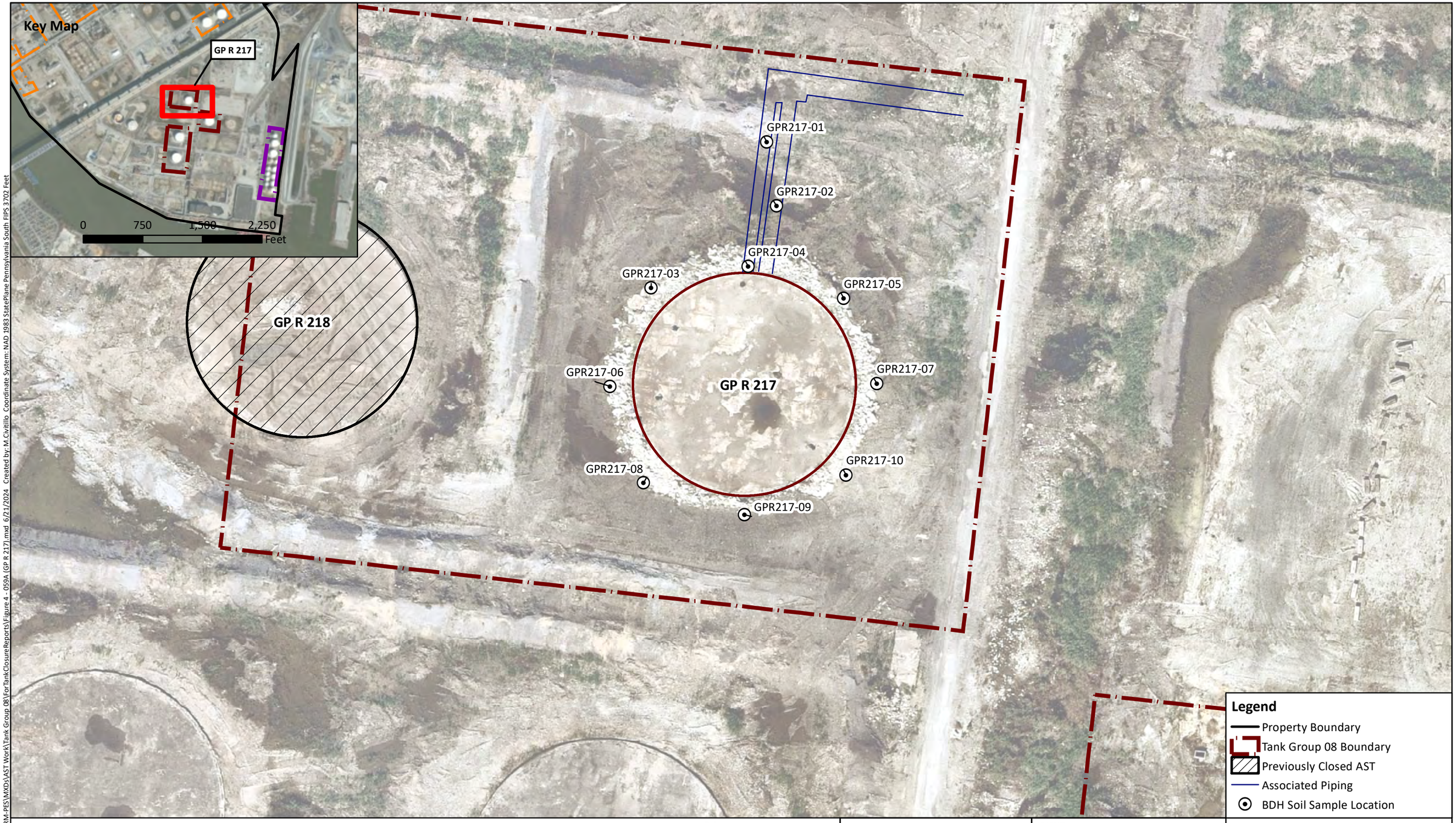
County:

Township/Borough: See attached Figure

Table 4 - 059A (GP R 217)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR217-01	GPR217-01-SS01-2	3.0	3.5	Benzene	SW8260D	Soil	0.00029	0.00083	6/3/2024	6/6/2024
GPR217-02	GPR217-02-SS01-2	1.5	2.0	Benzene	SW8260D	Soil	0.046	0.072	6/3/2024	6/6/2024
GPR217-03	GPR217-03-SS01-2	3.5	4.0	Benzene	SW8260D	Soil	0.00068	0.00078	6/3/2024	6/10/2024
GPR217-04	GPR217-04-SS01-2	3.5	4.0	Benzene	SW8260D	Soil	0.0037	0.00085	6/3/2024	6/10/2024
GPR217-05	GPR217-05-SS01-2	4.5	5.0	Benzene	SW8260D	Soil	0.00032	0.0009	6/3/2024	6/10/2024
GPR217-06	GPR217-06-SS01-2	4.5	5.0	Benzene	SW8260D	Soil	0.00036	0.00056	6/3/2024	6/10/2024
GPR217-07	GPR217-07-SS01-2	4.5	5.0	Benzene	SW8260D	Soil	ND	0.00059	6/3/2024	6/6/2024
GPR217-08	GPR217-08-SS01-2	3.5	4.0	Benzene	SW8260D	Soil	0.00046	0.00084	6/3/2024	6/6/2024
GPR217-09	GPR217-09-SS01-2	2.0	2.5	Benzene	SW8260D	Soil	ND	0.00096	6/3/2024	6/6/2024
GPR217-10	GPR217-10-SS01-2	2.0	2.5	Benzene	SW8260D	Soil	ND	0.00064	6/3/2024	6/6/2024

Note:
SS -- Soil Sample.



File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForTankClosureReports\Figure 4 - 059A (GP R 217).mxd 6/21/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Note: Aerial imagery source: NearMap September 19, 2023

0 40 80 120 Feet

1 inch = 40 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

PROJECT: Aboveground Storage Tank Closure

PROJECT NUMBER: P044.001.002

Site Location and Sampling Map 059A (GP R 217)

Figure 4

Photograph 1:

View of Tank 059A (GP R 217) during loading.

Waste Disposal Documentation (Tank 059A)

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19535

Date: 01-01-21

Scrap

Sold to: Allegheny

Location: Pittsburgh

Carrier: Allegheny Tank 217

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 67886 lbs

Tare Weight: 38960 lbs

Net Weight: 29120 lbs

NorthStar Rep. Signature: CH

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035447
Date: 04/01/2022 8:01 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 141756.926
Loads: 9221

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

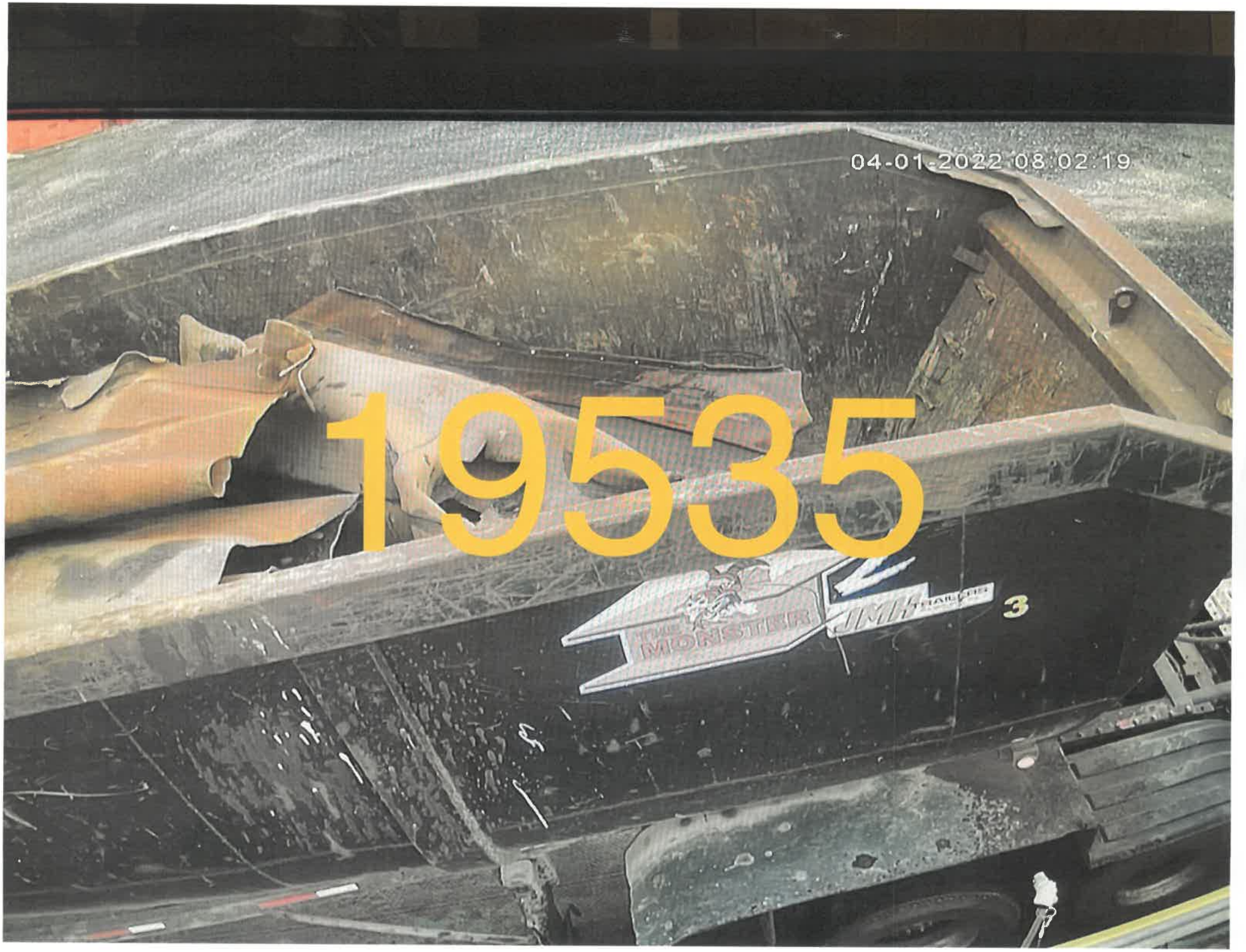
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.56 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67880.00	38760.00	29120.00


04-01-2022 08:02:19
19535
MONSTER
3

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTHSTAR

Address PES

Truck No. 261 Cust. No. 19535

Gross

Tare

Net

Weigh-In:
ID#: 261
08:36 am 04/01/22
67780 lb
Weigh-Out:
ID#: 261
08:56 am 04/01/22
67780 lb Gross
38720 lb Tare
29060 lb Net

UNP BURNING TANK PLATE

Haul - Fuel Charge: <250>

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38291

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19535

Date: 04-01-22

Sold to: Allegheny Scrap

Location: ~~Warren~~

Carrier: Allegheny Tank 217

Activity Location: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: 67880 lbs

Tare Weight: 38760 lbs

Net Weight: 29120 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035447
Date: 04/01/2022 8:01 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141756.926
Loads: 9221

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.56 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67880.00	38760.00	29120.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19542

Date: 04-01-22.

S120103.

Scrap

Sold to: Allegheny

Location: Tank 717.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 67020 lbs 39800 lbs

Tare Weight: _____

Net Weight: 27220 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035452
Date: 04/01/2022 8:35 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141826.526
Loads: 9226

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

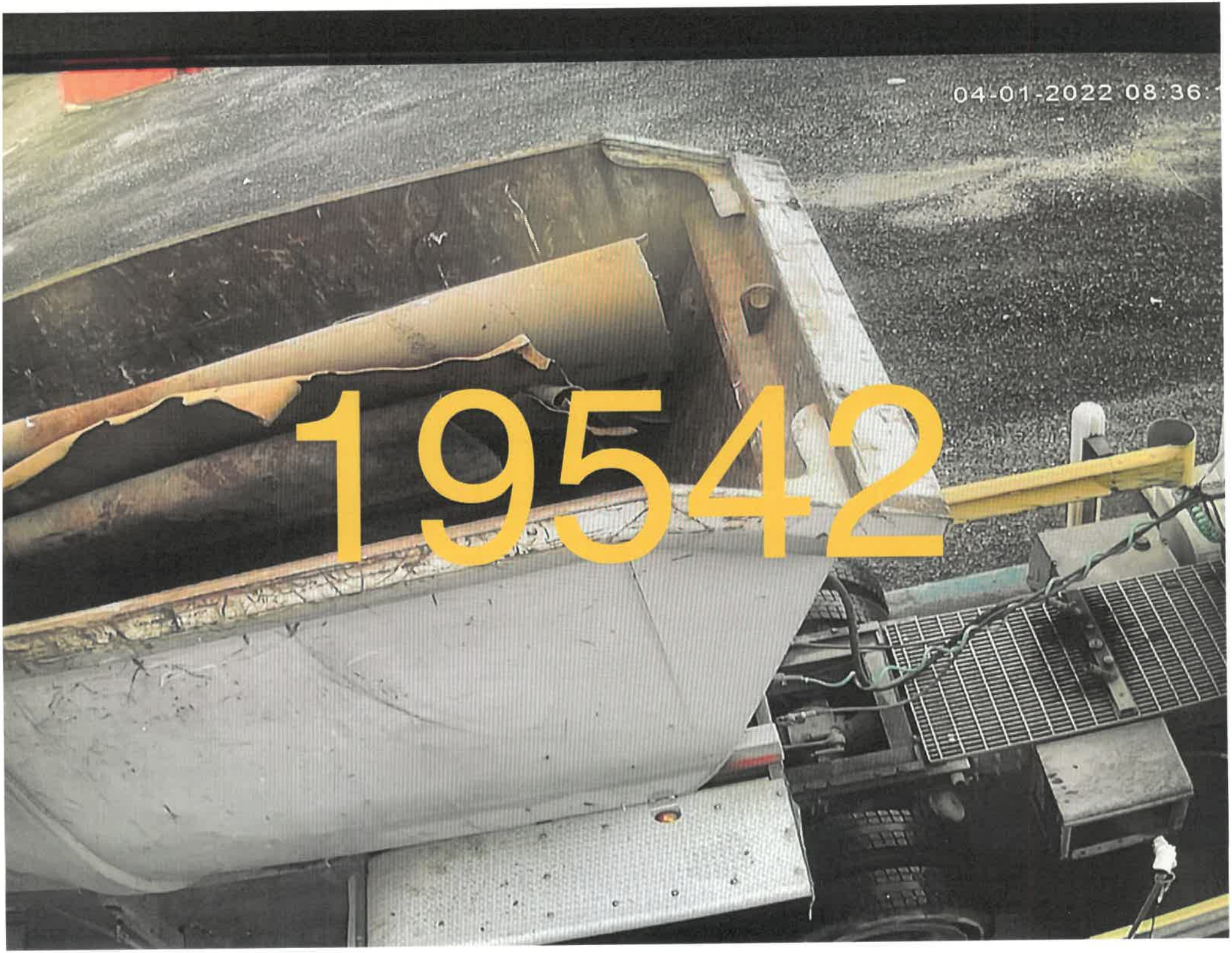
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.61 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67020.00	39800.00	27220.00


04-01-2022 08:36:
19542

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

4

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTH STAR

Address PES

Truck No. 250 Cust. No. 19542

Gross

Tare

Net

Weigh-In:
ID#: 250
09:09 am 04/01/22
66860 lb

Weigh-Out:
ID#: 250
09:22 am 04/01/22
66860 lb Gross
40180 lb Tare
26680 lb Net

VMP BURNS
TANK PLATE

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38297

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19542

Date: 04-01-22

Sold to: Allegheny Scrap
Location: Tank 217.
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____
Gross Weight: 67020 lbs
Tare Weight: 39800 lbs
Net Weight: 27220 lbs
NorthStar Rep. Signature: _____
Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035452
Date: 04/01/2022 8:35 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141826.526
Loads: 9226

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.61 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67020.00	39800.00	27220.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19550

Date: 04-01-22

Scrap

Sold to: Allegheny

Location: TANK 212

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 77780 lbs

Tare Weight: 29680 lbs

Net Weight: 33100 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035459
Date: 04/01/2022 9:46 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 141926.326
Loads: 9233

DT260-58 - ALLEGHENY TRUCK 260 W/TRAILER 58
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	16.55 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	72780.00	39680.00	33100.00


04-01-2022 09:45:25
19550
SCALE VIEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTH STAR

Address PES

Truck No. 260 Cust. No. 19550

Gross

Weigh-In:
ID#: 260
10:17 am 04/01/22
72800 lb

Tare

Net

Weigh-Out:
ID#: 260
10:46 am 04/01/22
72800 lb Gross
40300 lb Tare
32500 lb Net

JMB BURNING
TANK PLATE

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38302

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19550

Date: 04-01-22

Sold to: Scrap Allegheny

Location: TANK 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 72780 lbs

Tare Weight: 39680 lbs

Net Weight: 33100 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035459
Date: 04/01/2022 9:46 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141926.326
Loads: 9233

DT260-58 - ALLEGHENY TRUCK 260 W/TRAILER 58
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	16.55 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	72780.00	39680.00	33100.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103.

Load Ticket: 19551

Date: 04-01-22

Scrap

Sold to: Allegheny

Location: Tarlton 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: 67760 lbs

Tare Weight: 38760 lbs

Net Weight: 29000 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035460
Date: 04/01/2022 10:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 141940.826
Loads: 9234

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.5 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67760.00	38760.00	29000.00

E VIEW
1955

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name MARTIN TAR

Address PES

Truck No. 261 Cust. No. 19551

Gross

Tare

Net

Weigh-In:
ID#: 261
11:10 am 04/01/22
67720 lb

Weigh-Out:
ID#: 261
11:23 am 04/01/22
67720 lb Gross
38660 lb Tare
29060 lb Net

UNP Pts

Haul - Fuel Charge: 2567

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38310

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19551

Date: 05-01-22

Sold to: Allegheny **Scrap**
Location: Tank 217
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____
Gross Weight: 67760 lbs
Tare Weight: 38760 lbs
Net Weight: 29000 lbs
NorthStar Rep. Signature: _____
Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____
Carrier: _____
Truck #: _____
Container #: _____
Manifest #: _____
Profile / Approval #: _____

Scale Info

Scale Ticket #: _____
Gross Weight: _____
Tare weight: _____
Net weight: _____
Net Kilogram Conversion (PCB Only): _____
NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035460
Date: 04/01/2022 10:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 141940.826
Loads: 9234

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.5 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	67760.00	38760.00	29000.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 1955[illegible]

Date: 04-01-22

Scrap

Sold to: Allegheny

Location: ~~Dr~~ Tank 717

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 65780 lbs

Tare Weight: 39800 lbs

Net Weight: 25980 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035461
Date: 04/01/2022 10:15 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141953.816
Loads: 9235

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

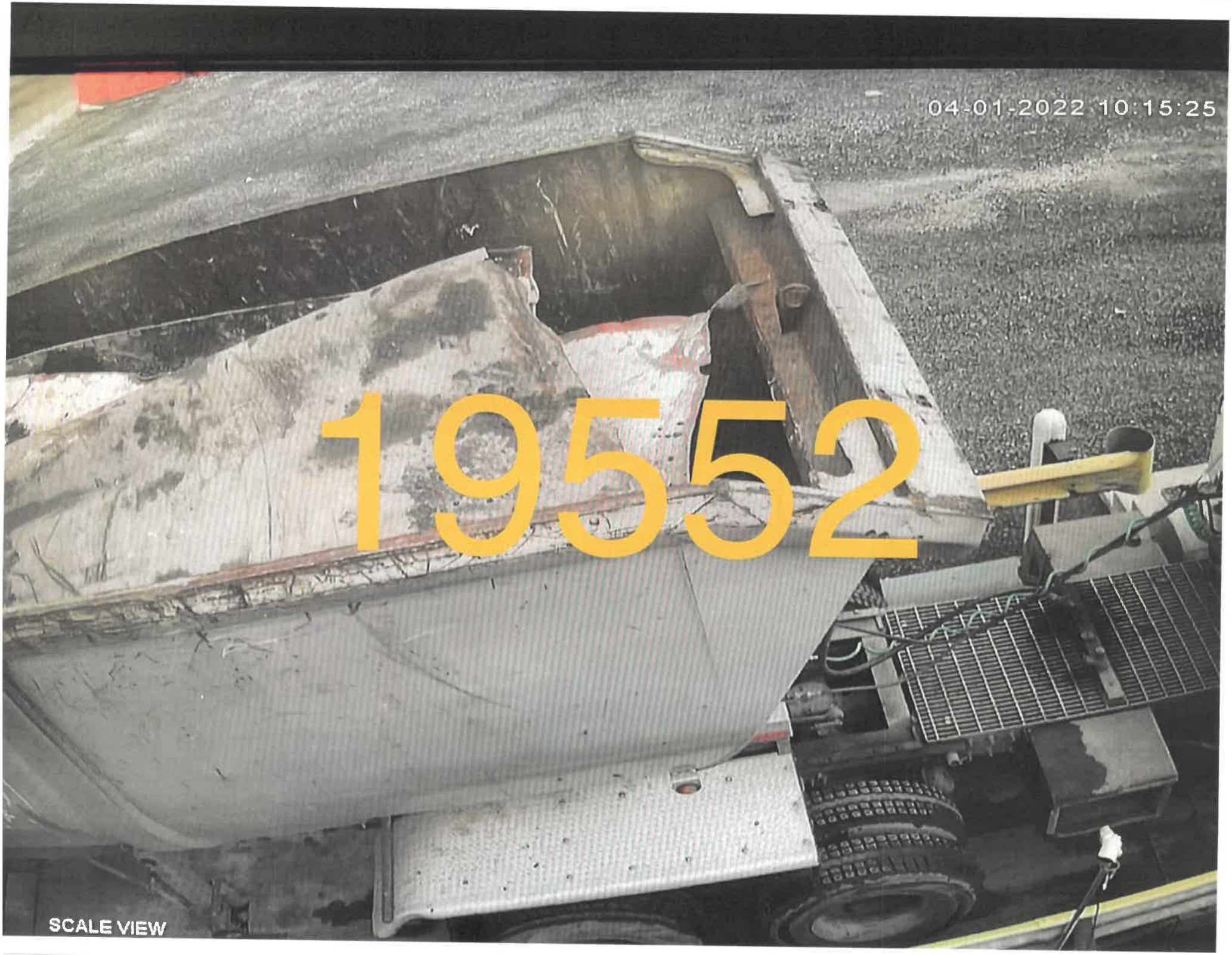
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.99 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65780.00	39800.00	25980.00


04-01-2022 10:15:25
19552
SCALE VIEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTHSTAR

Address PES

Truck No. 250 Cust. No. 19552

Gross

Tare

Net

Weigh-In:
ID#: 250
10:59 am 04/01/22
65400 lb

Weigh-Out:
ID#: 250
11:16 am 04/01/22
65400 lb Gross
40220 lb Tare
25180 lb Net

UMP BURNING
TANK PLATE

Haul - Fuel Charge: <250>

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38307

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19552

Date: 04-01-22

Sold to: Allegheny Scrap

Location: ~~Dn Tank 217~~

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☒ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tankplate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☒ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☒ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 65780 lbs

Tare Weight: 39800 lbs

Net Weight: 25980 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

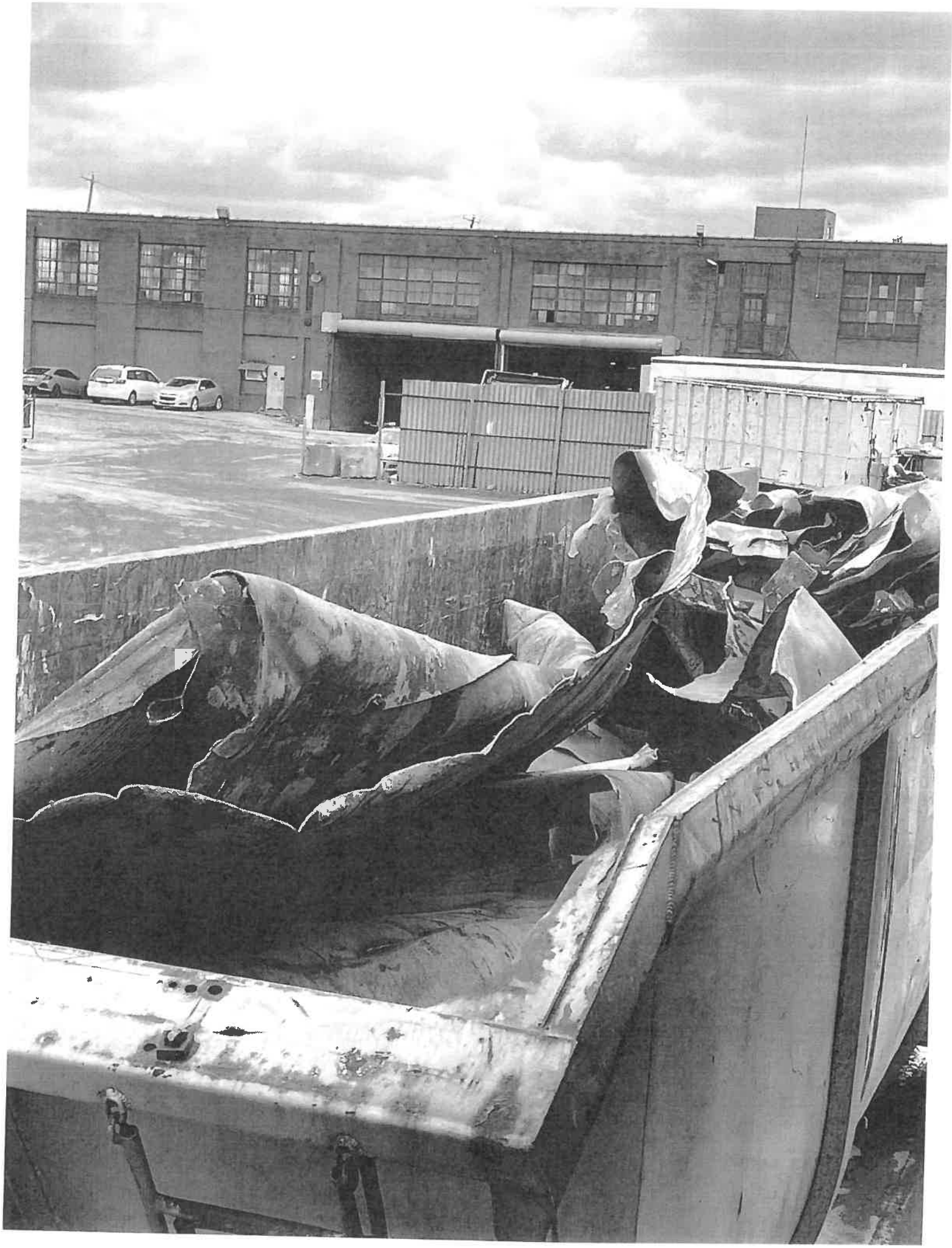
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035461
Date: 04/01/2022 10:15 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 141953.816
Loads: 9235

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.99 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65780.00	39800.00	25980.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103.

Load Ticket: 19563

Date: 04-01-22.

Scrap

Sold to: Allegheny

Location: Tank 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 105060lbs

Tare Weight: 105860lbs

Net Weight: 111180lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035470
Date: 04/01/2022 11:53 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 142070.676
Loads: 9244

DT260-58 - ALLEGHENY TRUCK 260 W/TRAILER 58
CARLAD - CARLA DAVILA

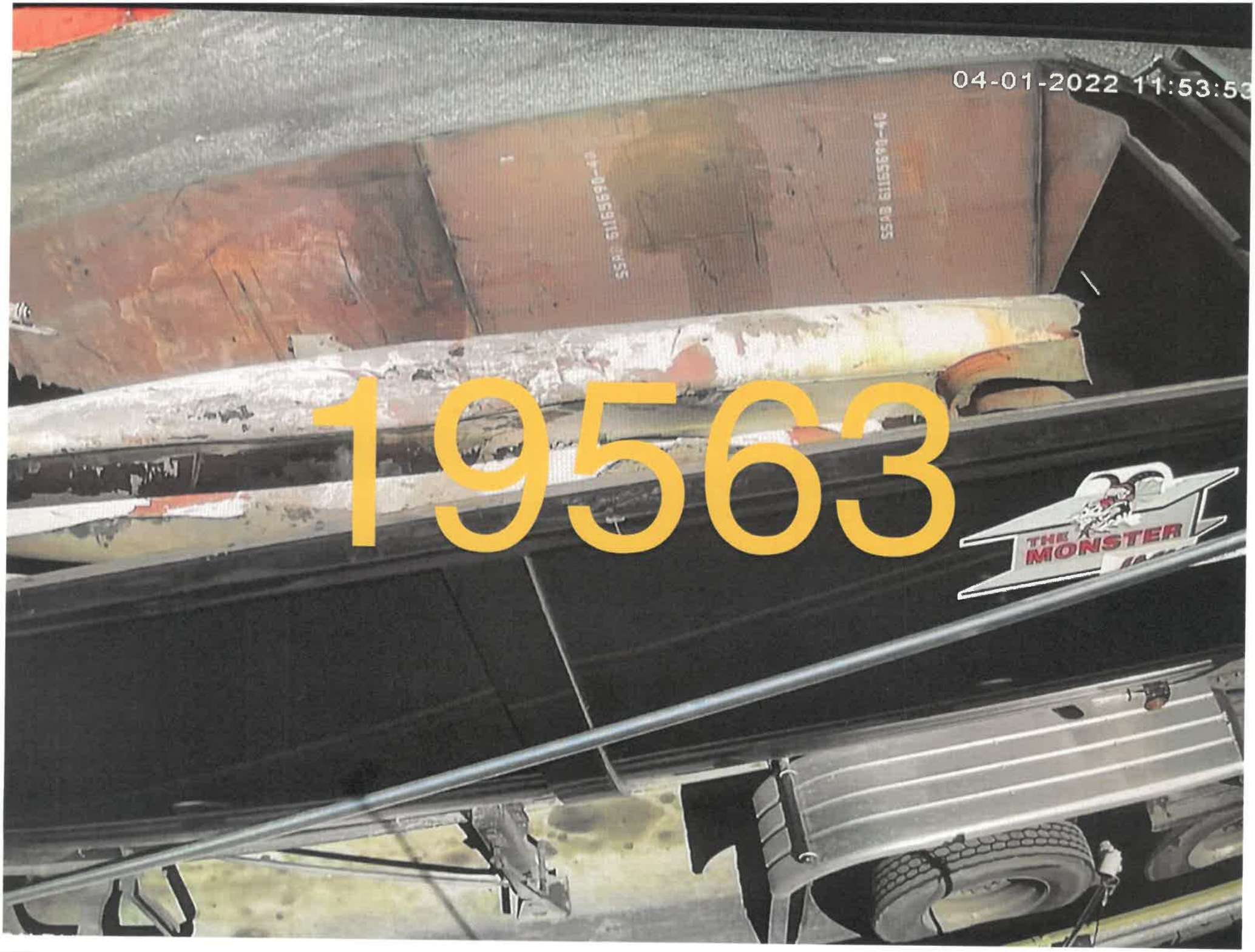
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.24 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65060.00	40580.00	24480.00


04-01-2022 11:53:53
19563
THE MONSTER

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTH STAR

Address PES

Truck No. 261 Cust. No. 19523

Gross

Tare

Net

Weigh-In:
ID#: 261
12:25 pm 04/01/22
65080 lb

Weigh-Out:
ID#: 261
12:34 pm 04/01/22
65080 lb Gross
40760 lb Tare
24320 lb Net

UNP BURNING
TANK PLATE

Haul - Fuel Charge: <0507>

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38323

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19563

Date: 04-01-22.

Scrap

Sold to: Allegheny

Location: Tank 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 105060 lbs

Tare Weight: 41080 lbs

Net Weight: 63980 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035470
Date: 04/01/2022 11:53 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 142070.676
Loads: 9244

DT260-58 - ALLEGHENY TRUCK 260 W/TRAILER 58
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.24 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65060.00	40580.00	24480.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19566

Date: 04-01-22

Scrap

Sold to: Allegheny

Location: Allegheny TANK 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 65040 lbs

Tare Weight: 39800 lbs

Net Weight: 25240 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035471
Date: 04/01/2022 12:10 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 142083.296
Loads: 9245

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

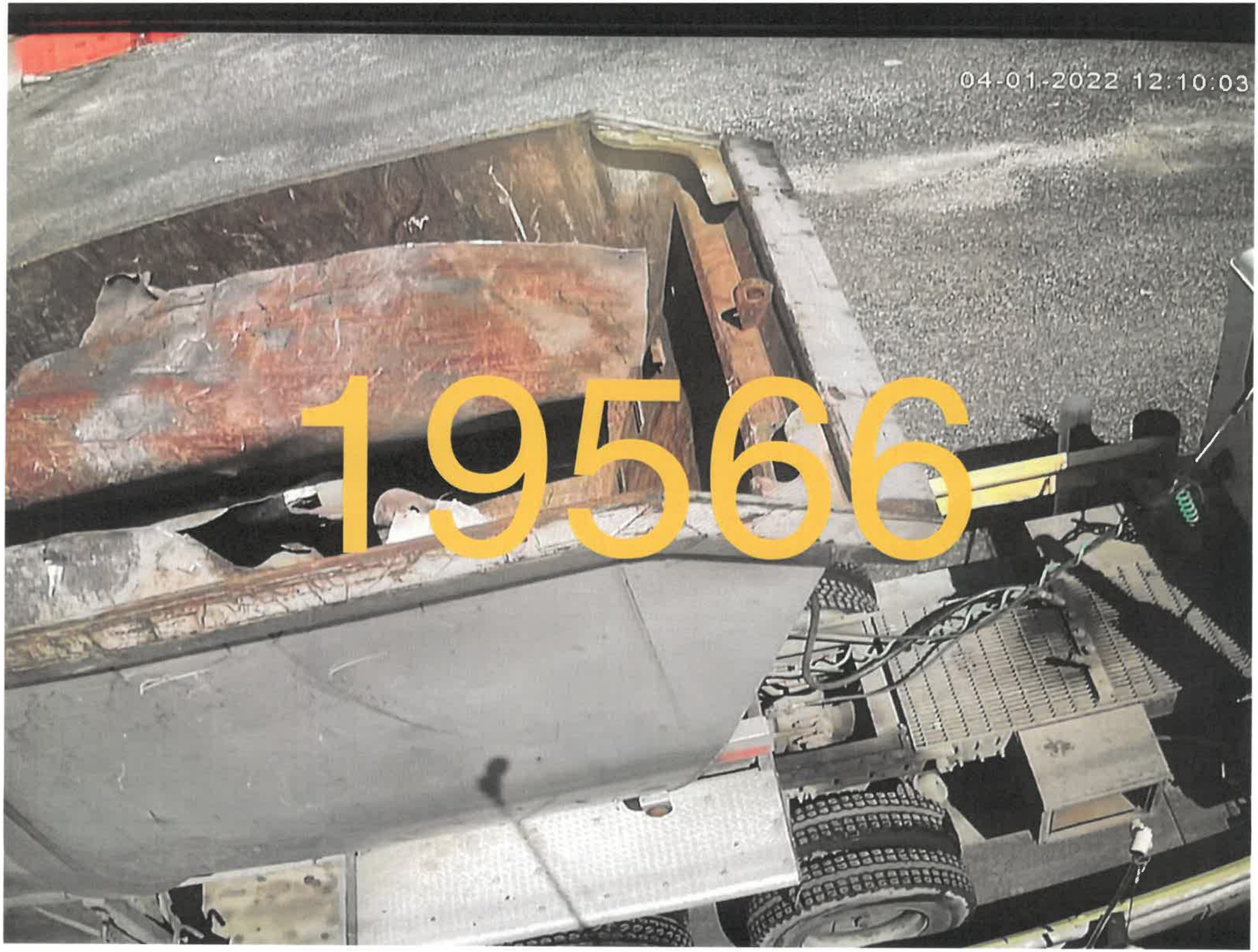
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.62 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65040.00	39800.00	25240.00


04-01-2022 12:10:03
19566

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORSTOK

Address PES

Truck No. 250 Cust. No. 1926

Gross

Tare

Net

Weigh-In:
ID#: 250
12:48 PM 04/01/22
65120 lb

Weigh-Out:
ID#: 250
12:59 PM 04/01/22
65120 lb Gross
40360 lb Tare
24760 lb Net

UNP BURNING
TANK PLATE
400

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

4171.43

Received by

K 38327

NorthStar Contracting Group, Inc.

250

PES Project Load Ticket

Load Ticket: 19566

Date: 04-01-22

Scrap

Sold to: Allegheny

Location: Tank 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 65040 lbs

Tare Weight: 39800 lbs

Net Weight: 25240 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

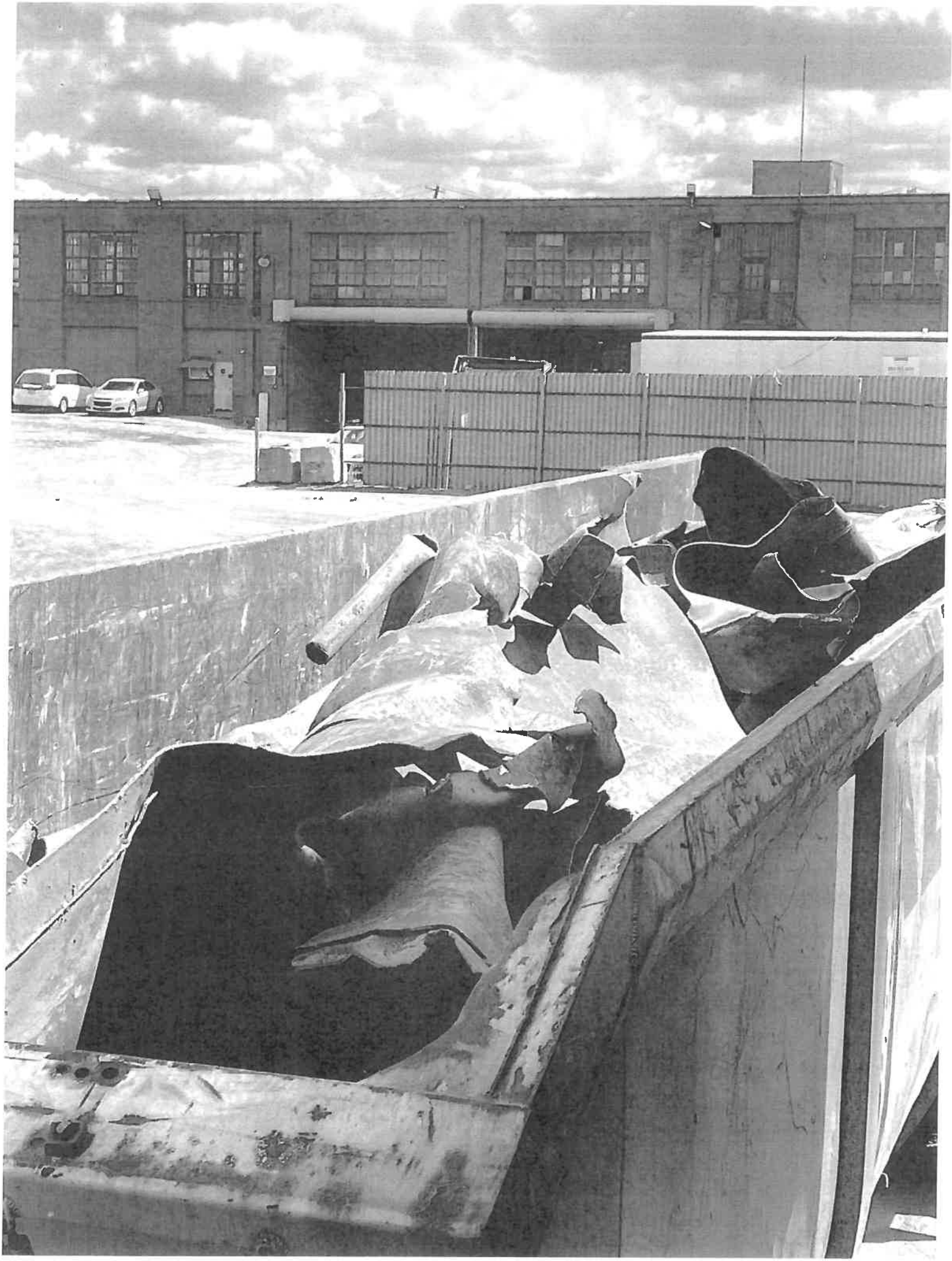
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____



250

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035471
Date: 04/01/2022 12:10 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 142083.296
Loads: 9245

DT250-56 - ALLEGHENY TRUCK 250 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.62 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65040.00	39800.00	25240.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19567

Date: 04.01.22

Scrap

Sold to: Allegheny

Location: Town 217

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 63960 lbs

Tare Weight: 38760 lbs

Net Weight: 25200 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035472
Date: 04/01/2022 12:17 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 142095.896
Loads: 9246

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.6 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	63960.00	38760.00	25200.00

04-01-2022 12:19:16
19567

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/1/22

Name NORTHSTAR

Address PES

Truck No. 261 Cust. No. 19527

Gross

Tare

Net

Weigh-In:
ID#: 261
01:28 PM 04/01/22
63740 lb

Weigh-Out:
ID#: 261
01:40 PM 04/01/22
63740 lb Gross
38580 lb Tare
25160 lb Net

VNP BURNING TANK PLATE

Haul - Fuel Charge: <050>

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38331

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19567

Date: 04.01.22

Sold to: Allegheny Scrap
Location: Tank 217.
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____
Gross Weight: 63960 lbs
Tare Weight: 38760 lbs
Net Weight: 25200 lbs
NorthStar Rep. Signature: _____
Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____


SLOW

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035472
Date: 04/01/2022 12:17 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 142095.896
Loads: 9246

DT261-2 - ALLEGHENY TRUCK 261 W/TRAILER 2
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.6 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	63960.00	38760.00	25200.00

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 001A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 33624

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 1 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO - - - - - → Conduct confirmatory sampling - - - - - → See end of this section for options on submission and maintenance of closure records - - - - - → Do not complete item C.2. below.

☐ YES - - - - - → Report release to DEP within 24 hours - - - - → Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____ - - - - → Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES - - - - → Remove or remediate contaminated soil - - - - → Conduct confirmatory sampling - - - - → See end of this section for options on submission and maintenance of closure records.

☐ NO - - - - → Continue Interim Remedial Actions - - - - → See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO - - - - → Conduct confirmatory sampling - - - - → See end of this section for options on submission and maintenance of closure records.

☐ YES - - - - → Report release to DEP within 24 hours - - - - → Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

Continue with corrective action - - - - → See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Kevin Long , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Kevin L. Long
Signature of Person Performing Site Assessment

09/24/2024 / /
Date

Principal Consultant
Title of Person Performing Site Assessment

Terraphase Engineering Inc.
Name of Company Performing Site Assessment

609-236-8171 x93
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number__51 - 33624______

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
See attached summary table							/ /	/ /
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[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: -

County:

Township/Borough: See attached Figure

Table 1 - 001A (GP R 219)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR219-01	GPR219-01-SS01	4.0	4.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.002	0.002	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00051	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.001	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0027	0.002	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Anthracene	SW8270E	Soil	4.6	0.13	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Benzene	SW8260D	Soil	ND	0.00051	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Benzo(a)anthracene	SW8270E	Soil	5.4	0.13	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Benzo(a)pyrene	SW8270E	Soil	4.2	0.17	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Benzo(b)fluoranthene	SW8270E	Soil	4.5	0.13	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Benzo(g,h,i)perylene	SW8270E	Soil	1.8	0.17	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Chrysene	SW8270E	Soil	3.7	0.13	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Cumene	SW8260D	Soil	0.018	0.001	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Ethyl Benzene	SW8260D	Soil	0.00019	0.001	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Fluorene	SW8270E	Soil	4.2	0.21	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Lead	SW6010D	Soil	77.5	5	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.002	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Naphthalene	SW8270E	Soil	2.4	0.042	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Phenanthrene	SW8270E	Soil	14	0.63	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Pyrene	SW8270E	Soil	6.8	0.13	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Toluene	SW8260D	Soil	ND	0.001	4/22/2024	4/26/2024
GPR219-01	GPR219-01-SS01	4.0	4.5	Xylenes (total)	SW8260D	Soil	0.00223	0.002	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0024	0.0026	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00065	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0013	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0011	0.0026	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Anthracene	SW8270E	Soil	8.3	0.14	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Benzene	SW8260D	Soil	ND	0.00065	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Benzo(a)anthracene	SW8270E	Soil	13	0.69	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Benzo(a)pyrene	SW8270E	Soil	11	0.92	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Benzo(b)fluoranthene	SW8270E	Soil	12	0.69	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Benzo(g,h,i)perylene	SW8270E	Soil	4	0.18	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Chrysene	SW8270E	Soil	8.1	0.14	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Cumene	SW8260D	Soil	0.0059	0.0013	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Ethyl Benzene	SW8260D	Soil	ND	0.0013	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Fluorene	SW8270E	Soil	6.3	0.23	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Lead	SW6010D	Soil	119	5.55	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0026	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Naphthalene	SW8270E	Soil	5.8	0.046	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Phenanthrene	SW8270E	Soil	28	0.69	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Pyrene	SW8270E	Soil	20	0.69	4/22/2024	4/26/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Toluene	SW8260D	Soil	ND	0.0013	4/22/2024	4/25/2024
GPR219-02	GPR219-02-SS01	4.5	5.0	Xylenes (total)	SW8260D	Soil	0.0047	0.0026	4/22/2024	4/25/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0054	0.0024	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.0006	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0012	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0022	0.0024	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Anthracene	SW8270E	Soil	0.36	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Benzene	SW8260D	Soil	0.0018	0.0006	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Benzo(a)anthracene	SW8270E	Soil	1	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Benzo(a)pyrene	SW8270E	Soil	1.1	0.15	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Benzo(b)fluoranthene	SW8270E	Soil	1.2	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.62	0.15	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Chrysene	SW8270E	Soil	0.93	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Cumene	SW8260D	Soil	0.23	0.0012	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Ethyl Benzene	SW8260D	Soil	0.0043	0.0012	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Fluorene	SW8270E	Soil	0.36	0.18	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Lead	SW6010D	Soil	161	4.46	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0024	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Naphthalene	SW8270E	Soil	0.62	0.037	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Phenanthrene	SW8270E	Soil	0.96	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Pyrene	SW8270E	Soil	1.2	0.11	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Toluene	SW8260D	Soil	0.0017	0.0012	4/22/2024	4/26/2024
GPR219-03	GPR219-03-SS01	1.0	1.5	Xylenes (total)	SW8260D	Soil	0.0183	0.0024	4/22/2024	4/26/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0066	0.0032	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00081	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0016	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0016	0.0032	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Anthracene	SW8270E	Soil	6.4	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Benzene	SW8260D	Soil	0.00032	0.00081	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Benzo(a)anthracene	SW8270E	Soil	4	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Benzo(a)pyrene	SW8270E	Soil	2	2.7	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Benzo(b)fluoranthene	SW8270E	Soil	1.4	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.9	2.7	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Chrysene	SW8270E	Soil	6.2	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Cumene	SW8260D	Soil	0.02	0.0016	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Ethyl Benzene	SW8260D	Soil	0.0004	0.0016	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Fluorene	SW8270E	Soil	7.7	3.4	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Lead	SW6010D	Soil	560	5.53	4/22/2024	4/26/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0032	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Naphthalene	SW8270E	Soil	1.9	0.68	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Phenanthrene	SW8270E	Soil	23	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Pyrene	SW8270E	Soil	13	2	4/22/2024	4/28/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Toluene	SW8260D	Soil	ND	0.0016	4/22/2024	4/25/2024
GPR219-04	GPR219-04-SS01	4.5	5.0	Xylenes (total)	SW8260D	Soil	0.0094	0.0032	4/22/2024	4/25/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.003	0.002	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00051	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.001	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.002	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Anthracene	SW8270E	Soil	1.2	0.12	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Benzene	SW8260D	Soil	ND	0.00051	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Benzo(a)anthracene	SW8270E	Soil	2	0.12	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Benzo(a)pyrene	SW8270E	Soil	1.7	0.16	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Benzo(b)fluoranthene	SW8270E	Soil	1.8	0.12	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.67	0.16	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Chrysene	SW8270E	Soil	1.8	0.12	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Cumene	SW8260D	Soil	0.019	0.001	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Ethyl Benzene	SW8260D	Soil	ND	0.001	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Fluorene	SW8270E	Soil	0.63	0.19	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Lead	SW6010D	Soil	44.4	4.66	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.002	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Naphthalene	SW8270E	Soil	0.86	0.039	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Phenanthrene	SW8270E	Soil	2.3	0.12	4/22/2024	4/26/2024

Table 1 - 001A (GP R 219)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR219-05	GPR219-05-SS01	4.0	4.5	Pyrene	SW8270E	Soil	3.1	0.12	4/22/2024	4/26/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Toluene	SW8260D	Soil	0.00072	0.001	4/22/2024	4/29/2024
GPR219-05	GPR219-05-SS01	4.0	4.5	Xylenes (total)	SW8260D	Soil	0.0127	0.002	4/22/2024	4/29/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0024	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00059	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0012	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0024	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Anthracene	SW8270E	Soil	0.87	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Benzene	SW8260D	Soil	ND	0.00059	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Benzo(a)anthracene	SW8270E	Soil	1.9	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Benzo(a)pyrene	SW8270E	Soil	2	0.18	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Benzo(b)fluoranthene	SW8270E	Soil	2	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.1	0.18	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Chrysene	SW8270E	Soil	1.7	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Cumene	SW8260D	Soil	0.0011	0.0012	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Ethyl Benzene	SW8260D	Soil	ND	0.0012	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Fluorene	SW8270E	Soil	1.1	0.22	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Lead	SW6010D	Soil	58	5.19	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0024	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Naphthalene	SW8270E	Soil	1.4	0.044	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Phenanthrene	SW8270E	Soil	0.83	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Pyrene	SW8270E	Soil	2.6	0.13	4/22/2024	4/26/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Toluene	SW8260D	Soil	ND	0.0012	4/22/2024	4/25/2024
GPR219-06	GPR219-06-SS01	3.5	4.0	Xylenes (total)	SW8260D	Soil	0.0029	0.0024	4/22/2024	4/25/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0026	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00066	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0013	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0026	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Anthracene	SW8270E	Soil	0.65	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Benzene	SW8260D	Soil	ND	0.00066	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Benzo(a)anthracene	SW8270E	Soil	0.7	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Benzo(a)pyrene	SW8270E	Soil	0.71	0.19	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Benzo(b)fluoranthene	SW8270E	Soil	0.91	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.54	0.19	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Chrysene	SW8270E	Soil	0.8	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Cumene	SW8260D	Soil	ND	0.0013	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Ethyl Benzene	SW8260D	Soil	ND	0.0013	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Fluorene	SW8270E	Soil	0.2	0.24	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Lead	SW6010D	Soil	319	5.71	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0026	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Naphthalene	SW8270E	Soil	2.3	0.048	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Phenanthrene	SW8270E	Soil	0.79	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Pyrene	SW8270E	Soil	1	0.14	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Toluene	SW8260D	Soil	ND	0.0013	4/22/2024	4/26/2024
GPR219-07	GPR219-07-SS01	4.0	4.5	Xylenes (total)	SW8260D	Soil	ND	0.0026	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.028	0.12	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.03	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.06	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.12	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Anthracene	SW8270E	Soil	5.3	0.11	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.03	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	11	0.57	4/22/2024	4/28/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	11	0.76	4/22/2024	4/28/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	11	0.57	4/22/2024	4/28/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	3.6	0.15	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Chrysene	SW8270E	Soil	6.7	0.11	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Cumene	SW8260D	Soil	0.45	0.06	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	0.017	0.06	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Fluorene	SW8270E	Soil	4.4	0.19	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Lead	SW6010D	Soil	153	4.6	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.12	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	3	0.038	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	16	0.57	4/22/2024	4/28/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Pyrene	SW8270E	Soil	15	0.57	4/22/2024	4/28/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Toluene	SW8260D	Soil	0.054	0.06	4/22/2024	4/26/2024
GPR219-08	GPR219-08-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	0.107	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.002	0.0023	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00058	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0012	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.00044	0.0023	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Anthracene	SW8270E	Soil	2.6	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Benzene	SW8260D	Soil	ND	0.00058	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Benzo(a)anthracene	SW8270E	Soil	3.3	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Benzo(a)pyrene	SW8270E	Soil	3.3	0.16	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Benzo(b)fluoranthene	SW8270E	Soil	3.9	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.6	0.16	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Chrysene	SW8270E	Soil	3.2	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Cumene	SW8260D	Soil	0.0087	0.0012	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Ethyl Benzene	SW8260D	Soil	0.00064	0.0012	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Fluorene	SW8270E	Soil	2.6	0.2	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Lead	SW6010D	Soil	133	4.92	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0023	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Naphthalene	SW8270E	Soil	2	0.041	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Phenanthrene	SW8270E	Soil	6.6	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Pyrene	SW8270E	Soil	6.5	0.12	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Toluene	SW8260D	Soil	0.001	0.0012	4/22/2024	4/26/2024
GPR219-09	GPR219-09-SS01	4.5	5.0	Xylenes (total)	SW8260D	Soil	0.0083	0.0023	4/22/2024	4/26/2024

Note:
SS -- Soil Sample.

Legend

- Property Boundary
- Tank Group 08 Boundary
- Associated Piping
- BDH Soil Sample Location

Note: Aerial imagery source: NearMap September 19, 2023

0 40 80 120 Feet

1 inch = 40 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Bellwether District Holdings, LLC

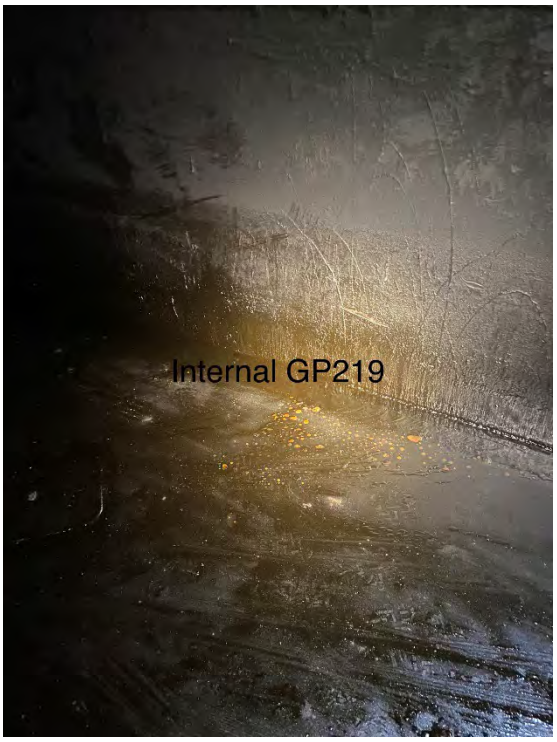
PROJECT: Aboveground Storage Tank Closure

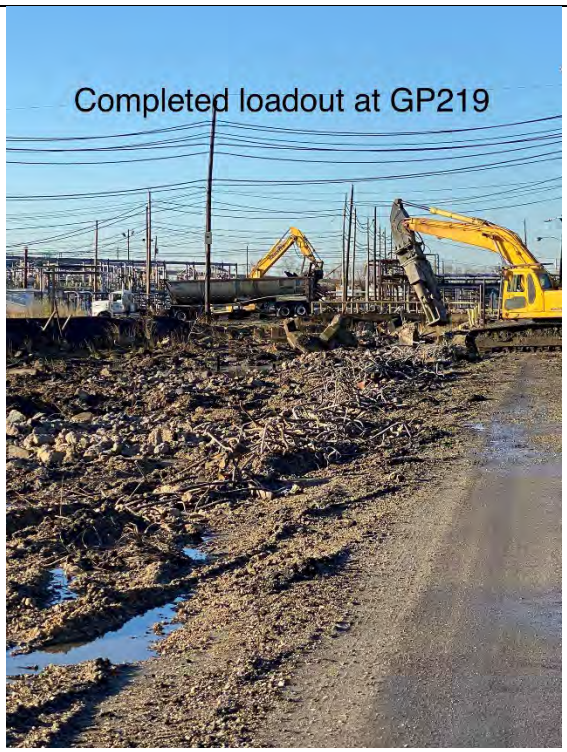
PROJECT NUMBER: P044.001.002

Site Location and Sampling Map 001A (GP R 219)

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForTankClosureReports\Figure 1 - 001A (GP R 219).mxd 6/21/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

	**Photograph 1:** View of Tank 001A (GP R 219) internally.
	**Photograph 2:** View of Tank 001A (GP R 219) during loadout.



Photograph 3:

View of Tank 001A (GP R 219) during loadout.

Waste Disposal Documentation
(Tank 001A)

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19305

Date: 01-12-22.

Scrap

Sold to: Allegheny

Location: Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 69020 lbs

Tare Weight: 42000 lbs

Net Weight: 27020 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035694
Date: 04/12/2022 7:48 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145478.686
Loads: 9468

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.51 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	69020.00	42000.00	27020.00

04-12-2022 07:50:03
19805

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4.12.22

Name Nortstar

Address PES

Truck No. 06 Cust. No. 19805

Gross

Tare

Net

Weigh-In:
ID#: 06
08:18 am 04/12/22
68740 lb

Weigh-Out:
ID#: 06
08:31 am 04/12/22
68740 lb Gross
41800 lb Tare
26940 lb Net

VNP Burner
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38715

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19805

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 69020 lbs

Tare Weight: 42000 lbs

Net Weight: 27020 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

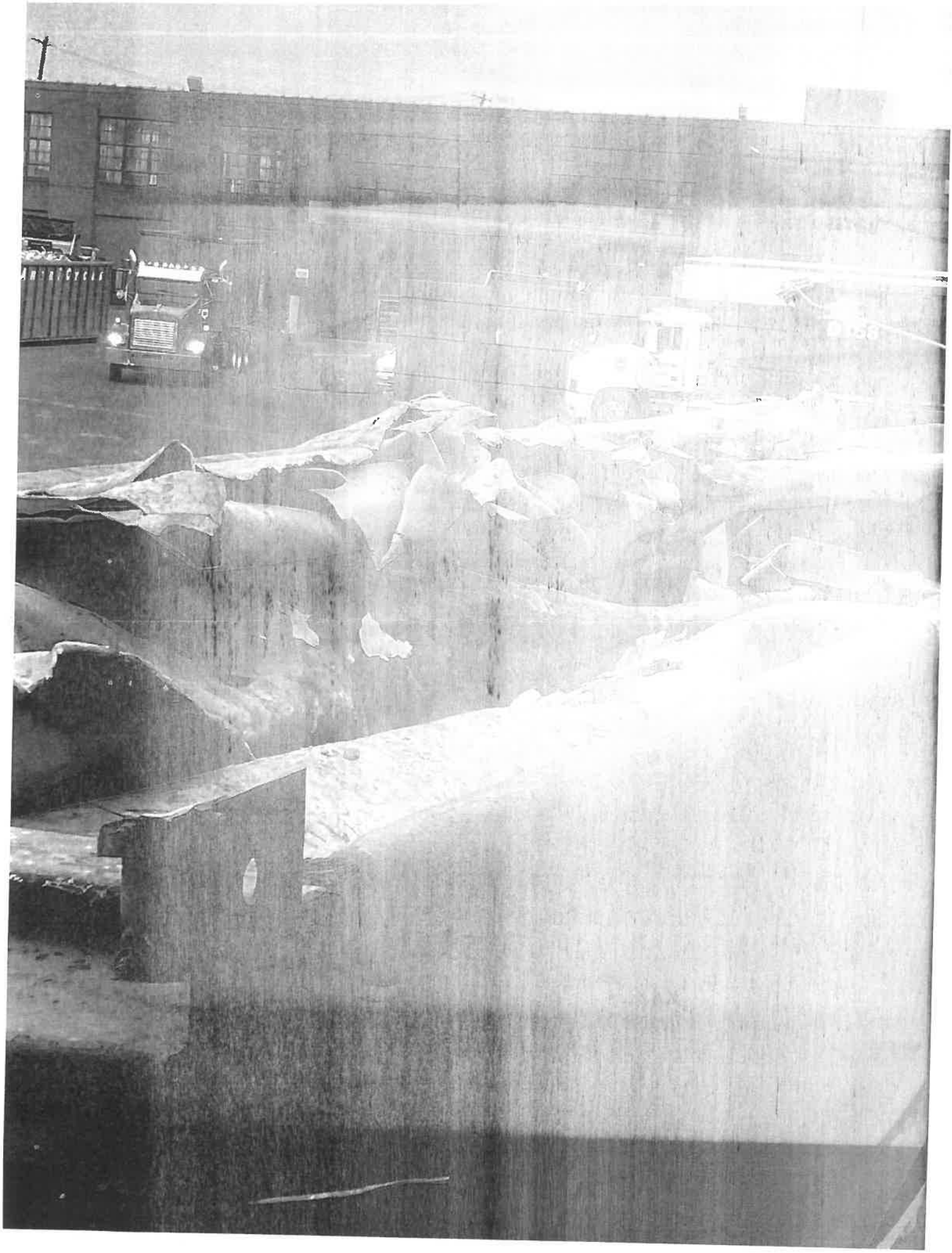
Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035694
Date: 04/12/2022 7:48 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145478.686
Loads: 9468

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.51 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	69020.00	42000.00	27020.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5/20/04.

Load Ticket: 19806

Date: 04-12-22.

Scrap

Sold to: Allighany

Location: Tank 214

Carrier: Allighany

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other: 1 with Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 58406 lbs

Tare Weight: 36280 lbs

Net Weight: 22126 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035695
Date: 04/12/2022 7:52 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145489.746
Loads: 9469

DT07-30 - ALLEGHENY TRUCK 07 W/TRAILER 30
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	58400.00	36280.00	22120.00

04-12-2022 07:53:06
19806

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4 12 22

Name Worthington PES

Address

Truck No. 07 Cust. No. 1986

Gross

Tare

Net

Weigh-In:
ID#: 07
08:22 am 04/12/22
58500 lb

Weigh-Out:
ID#: 07
08:48 am 04/12/22
58500 lb Gross
39300 lb Tare
19200 lb Net

Wrap Burner
Took place

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38717

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19806

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tank 219

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 58406 lbs

Tare Weight: 36280 lbs

Net Weight: 22126 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035695
Date: 04/12/2022 7:52 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145489.746
Loads: 9469

DT07-30 - ALLEGHENY TRUCK 07 W/TRAILER 30
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	58400.00	36280.00	22120.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19808

Date: 04-12-22

Scrap

Sold to: D Highway

Location: Tank 219.

Carrier: D Highway

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 66300 lbs

Tare Weight: 39960 lbs

Net Weight: 27340 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035697
Date: 04/12/2022 8:06 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145523.636
Loads: 9471

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	66300.00	38860.00	27440.00


04-12-2022 08:06:12
19808
IEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/12/22

Name Wolfspeed

Address PES

Truck No. 5 Cust. No. 19107

Gross

Tare

Net

Weigh-In:
ID#: 5
08:35 am 04/12/22
66220 lb

Weigh-Out:
ID#: 5
09:01 am 04/12/22
66220 lb Gross
39200 lb Tare
27020 lb Net

VAP Burner
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38719

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19808

Date: 04-12-22

Scrap

Sold to: Allegheny

Location: Tarrs 21a.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tankplate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 66300 lbs

Tare Weight: 38860 lbs

Net Weight: 27440 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035697
Date: 04/12/2022 8:06 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145523.636
Loads: 9471

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	66300.00	38860.00	27440.00

Ethris
TL 5
TL 70
19868

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19816

Date: 04-12-22

Scrap

Sold to: Allegheny

Location: WWA Tank 219

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 75800 lbs

Tare Weight: 36760 lbs

Net Weight: 39040 lbs

NorthStar Rep. Signature: CR

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035705
Date: 04/12/2022 9:31 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145649.856
Loads: 9479

DT261-57 - ALLEGHENY TRUCK 261 W/TRAILER 57
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	18.52 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	75800.00	38760.00	37040.00


04-12-2022 09:31:33
19816
DT57

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4-12-22

Name Worthington

Address PES

Truck No. 261 Cust. No. 19816

Gross

Tare

Net

Weigh-In:
ID#: 261
10:00 am 04/12/22
75440 lb

Weigh-Out:
ID#: 261
10:11 am 04/12/22
75440 lb Gross
38780 lb Tare
36660 lb Net

VNP Biofuel
Tank Plant

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38731

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19816

Date: 04-12-22

Scrap

Sold to: Allegheny

Location: PORT Tank 219

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 75800 lbs

Tare Weight: 38760 lbs

Net Weight: 37040 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035705
Date: 04/12/2022 9:31 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145649.856
Loads: 9479

DT261-57 - ALLEGHENY TRUCK 261 W/TRAILER 57
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	18.52 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	75800.00	38760.00	37040.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19820

Date: 04-12-22

Scrap

Sold to: Allighency

Location: Tank 214.

Carrier: Allighency

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 68980 lbs

Tare Weight: 38860 lbs

Net Weight: 30120 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035709
Date: 04/12/2022 10:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145705.586
Loads: 9483

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	68980.00	38860.00	30120.00


04-12-2022 10:00:04
19820

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4 12 22

Name Nolmson

Address PES

Truck No. 5 Cust. No. 1980

Gross

Tare

Net

Weigh-In:
ID#: 5
10:32 am 04/12/22
68680 lb

Weigh-Out:
ID#: 5
10:49 am 04/12/22
68680 lb Gross
39260 lb Tare
29420 lb Net

VAP
BURNT TANK
PLAC

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38739

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19820

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 68980 lbs

Tare Weight: 38860 lbs

Net Weight: 30120 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____


:48 (S)

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035709
Date: 04/12/2022 10:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145705.586
Loads: 9483

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	68980.00	38860.00	30120.00

Gross

TK 5

TL 70

19820

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19822

Date: 04-17-22

Scrap

Sold to: Allegheny

Location: Tank 219

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 64990 lbs

Tare Weight: 43480 lbs

Net Weight: 21500 lbs.

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035711
Date: 04/12/2022 10:15 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145727.406
Loads: 9485

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.25 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64980.00	40480.00	24500.00


04-12-2022 10:16:12
19822
ALE VIEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/12/22

Name Norristown

Address PES

Truck No. 56 Cust. No. 19822

Gross

Weigh-In:
ID#: 56
11:01 am 04/12/22
64980 lb

Tare

Net

Weigh-Out:
ID#: 56
11:11 am 04/12/22
64980 lb Gross
41240 lb Tare
23740 lb Net

VNP Bucks
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38745

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19822

Date: 04-12-22

Scrap

Sold to: Allegheny

Location: Rte-Tamth 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☑ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☑ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 64980 lbs

Tare Weight: 40480 lbs

Net Weight: 24500 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____


D158

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035711
Date: 04/12/2022 10:15 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145727.406
Loads: 9485

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.25 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64980.00	40480.00	24500.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19826

Date: 04-12-22.

Scrap

Sold to: Allgheny

Location: Tank 219.

Carrier: Allgheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 74960 lbs

Tare Weight: 38760 lbs

Net Weight: 36200 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035715
Date: 04/12/2022 11:03 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145798.766
Loads: 9489

DT261-57 - ALLEGHENY TRUCK 261 W/TRAILER 57
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	18.1 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	74960.00	38760.00	36200.00


04-12-2022 11:03:06
19826
BT57
IEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4-12-22

Name Weidstan PES

Address

Truck No. 261 Cust. No. 19826

Gross

Tare

Net

Weigh-In:
ID#: 261
11:53 am 04/12/22
75100 lb

Weigh-Out:
ID#: 261
12:01 pm 04/12/22
75100 lb Gross
38800 lb Tare
36300 lb Net

VAP
Burnt Tank
Plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38754

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19826

Date: 04-12-22.

Scrap

Sold to: Allghany

Location: Tank 219.

Carrier: Allghany

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 74960 lbs

Tare Weight: 38760 lbs

Net Weight: 36200 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

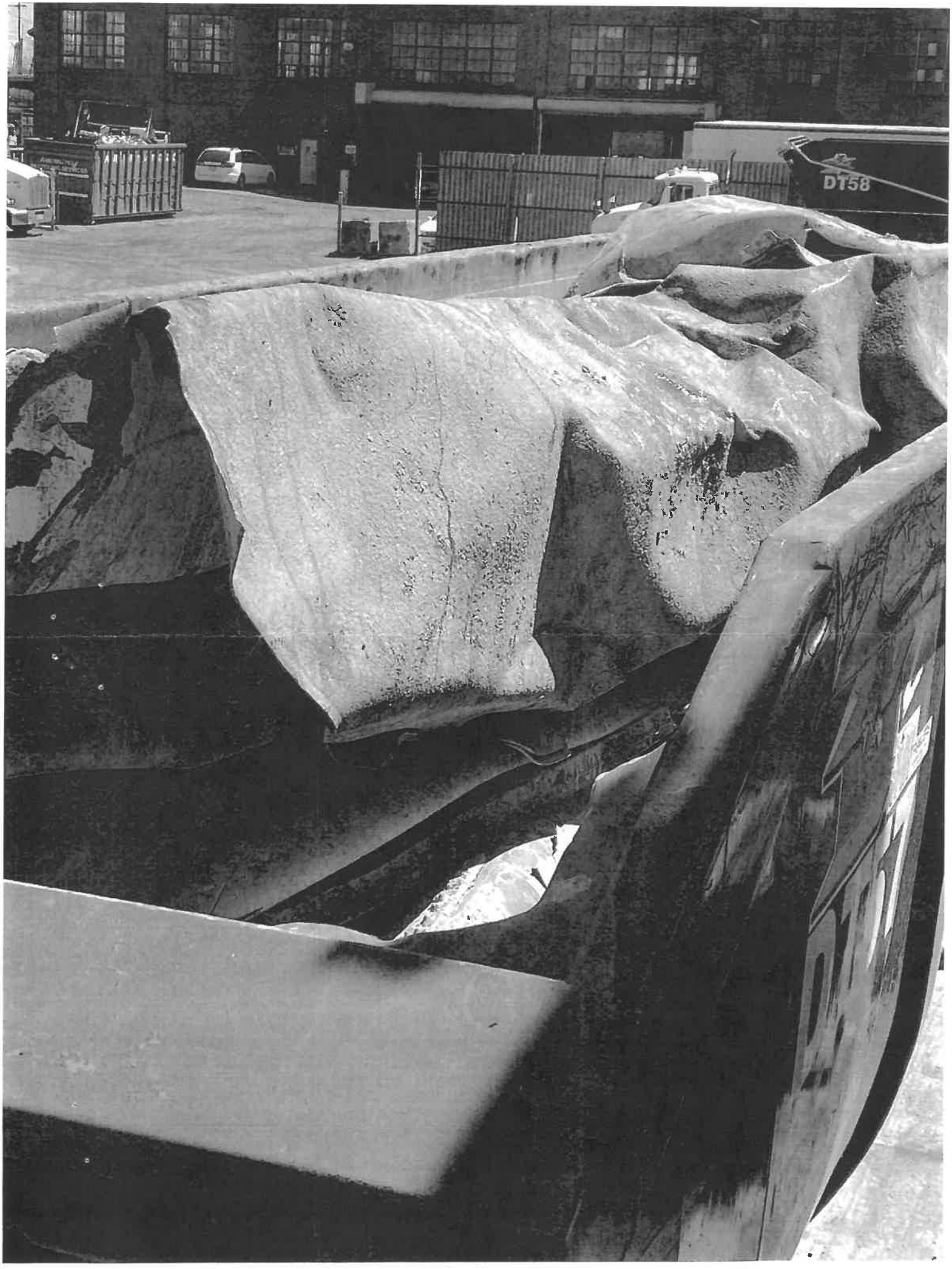
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


DT58

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035715
Date: 04/12/2022 11:03 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145798.766
Loads: 9489

DT261-57 - ALLEGHENY TRUCK 261 W/TRAILER 57
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	18.1 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	74960.00	38760.00	36200.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S12107.

Load Ticket: 19827

Date: 04 12 22

Scrap

Sold to: Allegheny

Location: Dirt Tank 219

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 77460 lbs

Tare Weight: 41200 lbs

Net Weight: 35960 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035716
Date: 04/12/2022 11:16 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145816.746
Loads: 9490

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	17.98 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	77960.00	42000.00	35960.00


04-12-2022 11:16:58
19827
CALE VIEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/12/22

Name Weinstein

Address PFS

Truck No. 06 Cust. No. 1962

Gross

Weigh-In:
ID#: 06
11:44 am 04/12/22
77580 lb

Tare

Net

Weigh-Out:
ID#: 06
11:57 am 04/12/22
77580 lb Gross
41820 lb Tare
35760 lb Net

VAP
Buffalo Trk
plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38751

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19827

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tarentum PA.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 77960 lbs

Tare Weight: 42000 lbs

Net Weight: 35960 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035716
Date: 04/12/2022 11:16 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145816.746
Loads: 9490

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	17.98 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	77960.00	42000.00	35960.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19831

Date: 01-12-22.

Scrap

Sold to: Alleghany

Location: Yard 219.

Carrier: Alleghany

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 65600 lbs

Tare Weight: 38860 lbs

Net Weight: 26740 lbs

NorthStar Rep. Signature: CR

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035720
Date: 04/12/2022 11:49 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145870.726
Loads: 9494

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.37 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65600.00	38860.00	26740.00


04-12-2022 11:49:15
19831

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4 12 22

Name Northern

Address PES

Truck No. 5 Cust. No. 19831

Gross

Tare

Net

Weigh-In:
ID#: 5
12:23 PM 04/12/22
65700 lb

Weigh-Out:
ID#: 5
12:49 PM 04/12/22
65700 lb Gross
39000 lb Tare
26700 lb Net

VNP Burn
Took place

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38757

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19831

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 65600 lbs

Tare Weight: 39860 lbs

Net Weight: 26740 lbs

NorthStar Rep. Signature: CR

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035720
Date: 04/12/2022 11:49 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145870.726
Loads: 9494

DT05-70 - SUPREME TRUCK 05 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.37 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65600.00	38860.00	26740.00

Chris

TK5

TL 70'

19837

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19834

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Wash Tank 7/9.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 57920 lbs

Tare Weight: 40480 lbs

Net Weight: 17440 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035723
Date: 04/12/2022 12:15 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145910.216
Loads: 9497

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

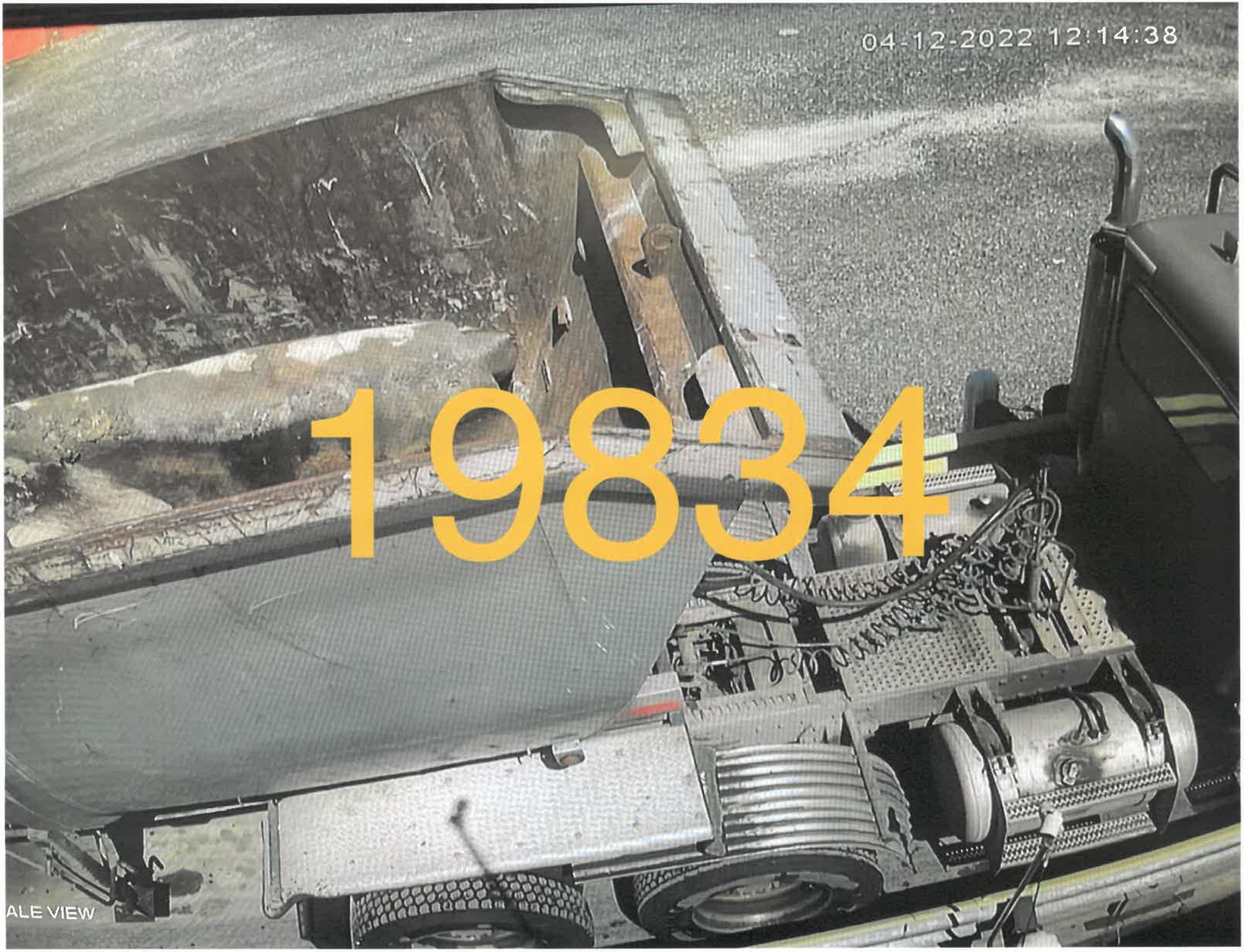
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57920.00	40480.00	17440.00


04-12-2022 12:14:38
19834
ALE VIEW

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/12/22

Name Northstar

Address PES

Truck No. 56 Cust. No. 1983

Gross

Tare

Net

Weigh-In:
ID#: 56
01:03 PM 04/12/22
58040 lb

Weigh-Out:
ID#: 56
01:12 PM 04/12/22
58040 lb Gross
41100 lb Tare
16940 lb Net

VAP
BUCKLE TOP
PLATE

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38765

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19834

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Wash Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 57920 lbs

Tare Weight: 40480 lbs

Net Weight: 17440 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


D158

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035723
Date: 04/12/2022 12:15 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145910.216
Loads: 9497

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57920.00	40480.00	17440.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

S120103.

Load Ticket: 19837

Date: 04-12-22

Scrap

Sold to: Allegheny

Location: Tank 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 70100 lbs

Tare Weight: 42100 lbs

Net Weight: 28000 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035726
Date: 04/12/2022 12:54 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 145963.356
Loads: 9500

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.05 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70100.00	42000.00	28100.00

SCALE VIEW

04-12-2022 12:56:12

1983

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 4/12/22

Name Northstar

Address PES

Truck No. 06 Cust. No. 19837

Gross

Tare

Net

Weigh-In:
ID#: 06
01:25 pm 04/12/22
69300 lb

Weigh-Out:
ID#: 06
01:43 pm 04/12/22
69300 lb Gross
41880 lb Tare
27420 lb Net

VNP Bream
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 38770

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 19837

Date: 04-12-22.

Scrap

Sold to: Allegheny

Location: Tanth 219.

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate.

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 70100 lbs

Tare Weight: 42000 lbs

Net Weight: 28100 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

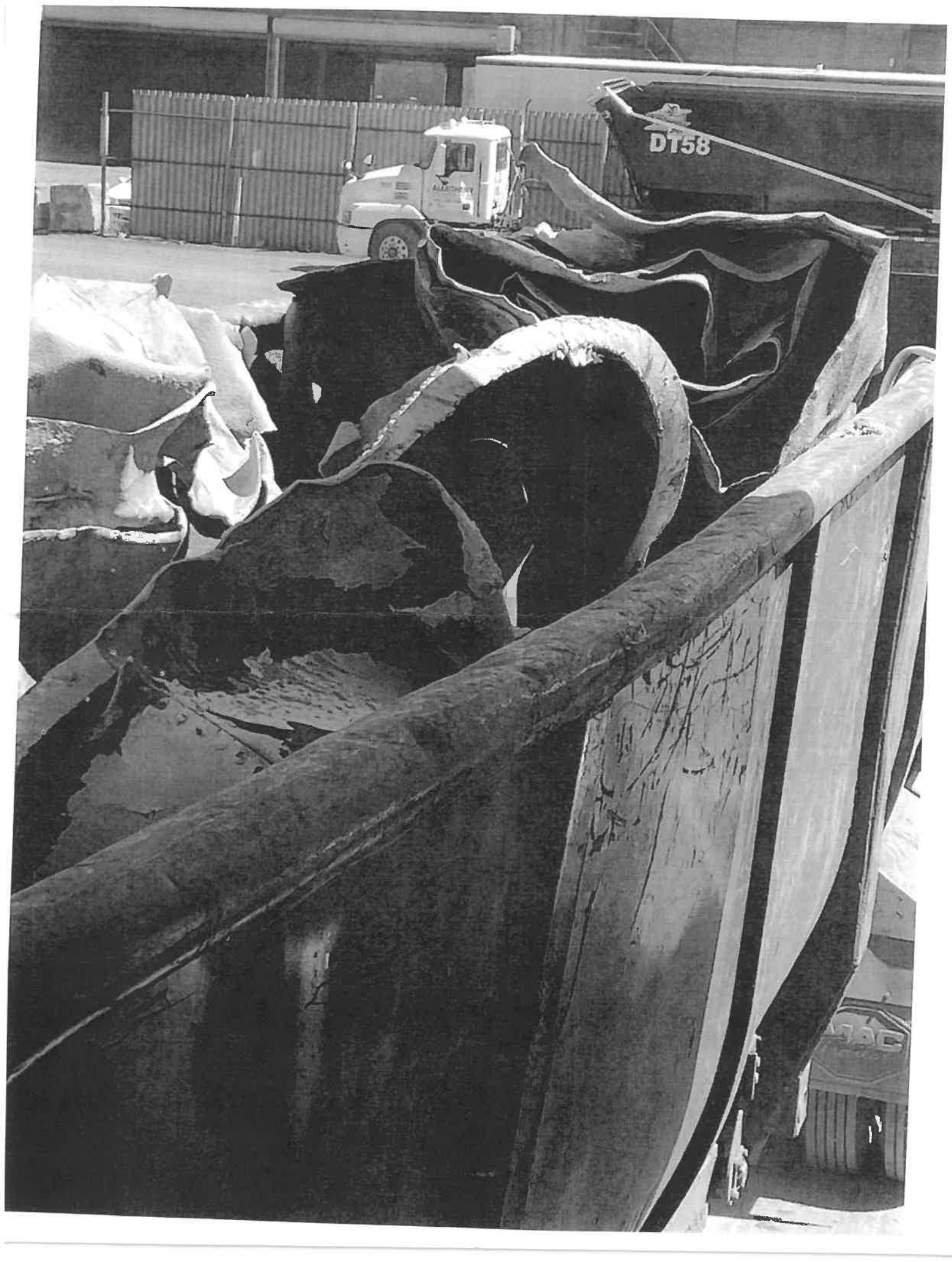
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


DT58

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20035726
Date: 04/12/2022 12:54 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 145963.356
Loads: 9500

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.05 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70100.00	42000.00	28100.00

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 015A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 33624

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 2 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____

_____

_____

_____ ----→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ----→ Remove or remediate contaminated soil ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records.

☐ NO ----→ Continue Interim Remedial Actions ----→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records.

☐ YES ----→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____

_____

_____

Continue with corrective action ----→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Kevin Long , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Kevin L. Long

Signature of Person Performing Site Assessment

09/24/2024 / /

Date

Principal Consultant

Title of Person Performing Site Assessment

Terraphase Engineering Inc.

Name of Company Performing Site Assessment

609-236-8171 x93

Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number__51 - 33624______

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
See attached summary table							/ /	/ /
							/ /	/ /
							/ /	/ /
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							/ /	/ /

[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: -

County:

Township/Borough: See attached Figure

Table 2 - 015A (GP R 225)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR225-01	GPR225-01-SS01	3.5	4.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0023	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00057	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0023	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Anthracene	SW8270E	Soil	0.21	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Benzene	SW8260D	Soil	ND	0.00057	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Benzo(a)anthracene	SW8270E	Soil	0.46	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Benzo(a)pyrene	SW8270E	Soil	0.46	0.17	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Benzo(b)fluoranthene	SW8270E	Soil	0.49	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Benzo(g,h,i)perylene	SW8270E	Soil	0.24	0.17	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Chrysene	SW8270E	Soil	0.43	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Cumene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Ethyl Benzene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Fluorene	SW8270E	Soil	0.6	0.22	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Lead	SW6010D	Soil	49.5	5.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0023	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Naphthalene	SW8270E	Soil	0.45	0.043	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Phenanthrene	SW8270E	Soil	1.8	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Pyrene	SW8270E	Soil	0.9	0.13	4/23/2024	4/26/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Toluene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-01	GPR225-01-SS01	3.5	4.0	Xylenes (total)	SW8260D	Soil	ND	0.0023	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0024	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00059	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0012	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0024	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Anthracene	SW8270E	Soil	1.9	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Benzene	SW8260D	Soil	ND	0.00059	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	5.2	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	6.1	0.19	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	6.6	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	3.6	0.19	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Chrysene	SW8270E	Soil	5.3	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Cumene	SW8260D	Soil	ND	0.0012	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	ND	0.0012	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Fluorene	SW8270E	Soil	0.83	0.23	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Lead	SW6010D	Soil	230	5.6	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0024	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	3.4	0.047	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	3.6	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Pyrene	SW8270E	Soil	6	0.14	4/23/2024	4/26/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.0012	4/23/2024	4/29/2024
GPR225-02	GPR225-02-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.0056	0.0024	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0086	0.0022	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00056	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0025	0.0022	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Anthracene	SW8270E	Soil	4.6	0.12	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Benzene	SW8260D	Soil	ND	0.00056	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Benzo(a)anthracene	SW8270E	Soil	5.5	0.12	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Benzo(a)pyrene	SW8270E	Soil	4.7	0.17	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Benzo(b)fluoranthene	SW8270E	Soil	5.3	0.12	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Benzo(g,h,i)perylene	SW8270E	Soil	2.4	0.17	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Chrysene	SW8270E	Soil	5.2	0.12	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Cumene	SW8260D	Soil	0.01	0.0011	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Ethyl Benzene	SW8260D	Soil	0.00019	0.0011	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Fluorene	SW8270E	Soil	5	0.21	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Lead	SW6010D	Soil	149	4.96	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0022	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Naphthalene	SW8270E	Soil	3.5	0.042	4/23/2024	4/26/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Phenanthrene	SW8270E	Soil	21	0.62	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Pyrene	SW8270E	Soil	17	0.62	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Toluene	SW8260D	Soil	0.00067	0.0011	4/23/2024	4/29/2024
GPR225-03	GPR225-03-SS01	2.0	2.5	Xylenes (total)	SW8260D	Soil	0.0059	0.0022	4/23/2024	4/29/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.00057	0.0025	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00062	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0012	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.00027	0.0025	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Anthracene	SW8270E	Soil	3.7	0.14	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Benzene	SW8260D	Soil	ND	0.00062	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	4.4	0.14	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	3.4	0.18	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	3.6	0.14	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.5	0.18	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Chrysene	SW8270E	Soil	3.4	0.14	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Cumene	SW8260D	Soil	0.00066	0.0012	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	0.0002	0.0012	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Fluorene	SW8270E	Soil	3.1	0.23	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Lead	SW6010D	Soil	81.1	5.32	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0025	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	1.2	0.045	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	16	0.68	4/23/2024	4/28/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Pyrene	SW8270E	Soil	6.5	0.14	4/23/2024	4/26/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.0012	4/23/2024	4/30/2024
GPR225-04	GPR225-04-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.00164	0.0025	4/23/2024	4/30/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00054	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Anthracene	SW8270E	Soil	0.39	0.12	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Benzene	SW8260D	Soil	ND	0.00054	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	3	0.12	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	3.2	0.16	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	3.5	0.12	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.6	0.16	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Chrysene	SW8270E	Soil	2.5	0.12	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Cumene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Fluorene	SW8270E	Soil	0.14	0.2	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Lead	SW6010D	Soil	74.7	4.82	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0021	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	1.1	0.04	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	0.28	0.12	4/23/2024	4/26/2024

Table 2 - 015A (GP R 225)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR225-05	GPR225-05-SS01	2.5	3.0	Pyrene	SW8270E	Soil	2.7	0.12	4/23/2024	4/26/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-05	GPR225-05-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	ND	0.0021	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0027	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00068	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0014	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0027	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Anthracene	SW8270E	Soil	4.2	0.14	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Benzene	SW8260D	Soil	ND	0.00068	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Benzo(a)anthracene	SW8270E	Soil	4.2	0.14	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Benzo(a)pyrene	SW8270E	Soil	3.4	0.19	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Benzo(b)fluoranthene	SW8270E	Soil	3.5	0.14	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.6	0.19	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Chrysene	SW8270E	Soil	4.4	0.14	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Cumene	SW8260D	Soil	ND	0.0014	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Ethyl Benzene	SW8260D	Soil	ND	0.0014	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Fluorene	SW8270E	Soil	4.5	0.24	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Lead	SW6010D	Soil	142	5.56	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0027	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Naphthalene	SW8270E	Soil	1.2	0.047	4/23/2024	4/26/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Phenanthrene	SW8270E	Soil	19	0.71	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Pyrene	SW8270E	Soil	13	0.71	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Toluene	SW8260D	Soil	ND	0.0014	4/23/2024	4/29/2024
GPR225-06	GPR225-06-SS01	3.5	4.0	Xylenes (total)	SW8260D	Soil	ND	0.0027	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0026	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00064	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0013	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0026	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Anthracene	SW8270E	Soil	0.18	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.00064	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	0.94	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	1.4	0.19	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	1.5	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.94	0.19	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Chrysene	SW8270E	Soil	0.92	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Cumene	SW8260D	Soil	ND	0.0013	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	ND	0.0013	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Fluorene	SW8270E	Soil	0.069	0.24	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Lead	SW6010D	Soil	109	5.5	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0026	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	0.7	0.047	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	0.19	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Pyrene	SW8270E	Soil	0.86	0.14	4/23/2024	4/26/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Toluene	SW8260D	Soil	ND	0.0013	4/23/2024	4/29/2024
GPR225-07	GPR225-07-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	ND	0.0026	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.00067	0.0022	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00054	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.00041	0.0022	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Anthracene	SW8270E	Soil	7.4	0.13	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.00054	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	8.1	0.13	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	6.3	0.17	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	7	0.13	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	2.8	0.17	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Chrysene	SW8270E	Soil	6.8	0.13	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Cumene	SW8260D	Soil	0.0013	0.0011	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	0.00021	0.0011	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Fluorene	SW8270E	Soil	6.7	0.21	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Lead	SW6010D	Soil	80.6	5.05	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0022	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	2.7	0.042	4/23/2024	4/26/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	30	1.3	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Pyrene	SW8270E	Soil	16	1.3	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Toluene	SW8260D	Soil	ND	0.0011	4/23/2024	4/29/2024
GPR225-08	GPR225-08-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	0.00181	0.0022	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0019	0.003	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00074	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0015	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.00043	0.003	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Anthracene	SW8270E	Soil	0.9	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Benzene	SW8260D	Soil	ND	0.00074	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Benzo(a)anthracene	SW8270E	Soil	4	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Benzo(a)pyrene	SW8270E	Soil	4	0.21	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Benzo(b)fluoranthene	SW8270E	Soil	4.4	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Benzo(g,h,i)perylene	SW8270E	Soil	2	0.21	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Chrysene	SW8270E	Soil	3.7	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Cumene	SW8260D	Soil	0.0005	0.0015	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Ethyl Benzene	SW8260D	Soil	ND	0.0015	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Fluorene	SW8270E	Soil	1.2	0.26	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Lead	SW6010D	Soil	174	6.34	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.003	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Naphthalene	SW8270E	Soil	2.9	0.053	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Phenanthrene	SW8270E	Soil	1.1	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Pyrene	SW8270E	Soil	5.4	0.16	4/23/2024	4/26/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Toluene	SW8260D	Soil	ND	0.0015	4/23/2024	4/29/2024
GPR225-09	GPR225-09-SS01	2.0	2.5	Xylenes (total)	SW8260D	Soil	0.0035	0.003	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.5	1.3	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.32	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.64	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	1.3	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Anthracene	SW8270E	Soil	2.3	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Benzene	SW8260D	Soil	0.11	0.32	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Benzo(a)anthracene	SW8270E	Soil	2.9	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Benzo(a)pyrene	SW8270E	Soil	2.3	0.16	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Benzo(b)fluoranthene	SW8270E	Soil	2.7	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.2	0.16	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Chrysene	SW8270E	Soil	2.4	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Cumene	SW8260D	Soil	6.6	0.64	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Ethyl Benzene	SW8260D	Soil	0.2	0.64	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Fluorene	SW8270E	Soil	2.7	0.2	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Lead	SW6010D	Soil	77	4.74	4/23/2024	4/26/2024

Table 2 - 015A (GP R 225)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR225-10	GPR225-10-SS01	1.5	2.0	Methyl tert-butyl ether	SW8260D	Soil	ND	1.3	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Naphthalene	SW8270E	Soil	1.3	0.04	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Phenanthrene	SW8270E	Soil	7.2	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Pyrene	SW8270E	Soil	4.4	0.12	4/23/2024	4/26/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Toluene	SW8260D	Soil	ND	0.64	4/23/2024	4/29/2024
GPR225-10	GPR225-10-SS01	1.5	2.0	Xylenes (total)	SW8260D	Soil	1.08	1.3	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.078	0.15	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.038	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.077	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.023	0.15	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Anthracene	SW8270E	Soil	2.7	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Benzene	SW8260D	Soil	0.016	0.038	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	3.8	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	3.1	0.9	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	3.5	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.7	0.9	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Chrysene	SW8270E	Soil	3.4	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Cumene	SW8260D	Soil	1.1	0.077	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	0.053	0.077	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Fluorene	SW8270E	Soil	3	1.1	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Lead	SW6010D	Soil	84.2	5.2	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.15	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	1.5	0.22	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	7.9	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Pyrene	SW8270E	Soil	6.2	0.68	4/23/2024	4/26/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Toluene	SW8260D	Soil	0.11	0.077	4/23/2024	4/29/2024
GPR225-11	GPR225-11-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.184	0.15	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.3	0.19	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.047	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.094	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.11	0.19	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Anthracene	SW8270E	Soil	1.2	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Benzene	SW8260D	Soil	0.36	0.047	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	0.79	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	0.66	0.84	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	0.7	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.47	0.84	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Chrysene	SW8270E	Soil	1.4	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Cumene	SW8260D	Soil	1.5	0.094	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	0.18	0.094	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Fluorene	SW8270E	Soil	1.4	1	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Lead	SW6010D	Soil	2090	4.91	4/23/2024	4/27/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.19	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	0.84	0.21	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	3.9	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Pyrene	SW8270E	Soil	2.6	0.63	4/23/2024	4/26/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Toluene	SW8260D	Soil	1.2	0.094	4/23/2024	4/29/2024
GPR225-12	GPR225-12-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	2.25	0.19	4/23/2024	4/29/2024

Note:
SS -- Soil Sample.

Note: Aerial imagery source: NearMap September 19, 2023

0 40 80 120 Feet

1 inch = 40 feet

N

SAFETY FIRST

terraphase engineering

CLIENT:	Bellwether District Holdings, LLC
PROJECT:	Aboveground Storage Tank Closure
PROJECT NUMBER:	P044.001.002

Site Location and Sampling Map 015A (GP R 225)

Figure 2

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForTankClosureReports\Figure 2 - 015A (GP R 225).mxd 6/21/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Photograph 1:

View of Tank 015A (GP R 225) during demolition.

Photograph 2:

View of Tank 015A (GP R 225) concrete pad.

	**Photograph 3:** View of Tank 015A (GP R 225) concrete pad.

Waste Disposal Documentation
(Tank 015A)

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17539

Date: 11-5-21

#S170102

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 65070 lbs

Tare Weight: 41160 lbs

Net Weight: 23910 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031698
Date: 11/05/2021 7:46 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83545.351
Loads: 5511

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.74 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65080.00	41600.00	23480.00


17539
THE MONSTER

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11 5 21

Name Nolmston
PFS

Address

Truck No. 260 Cust. No. 17539

Gross

Tare

Net

Weigh-In:
ID#: 260
08:17 am 11/05/21
64900 lb

Weigh-Out:
ID#: 260
08:34 am 11/05/21
64900 lb Gross
42180 lb Tare
22720 lb Net

VNP Brunt
Took place

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32179

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17539

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 65080 lbs

Tare Weight: 41600 lbs

Net Weight: 23480 lbs

NorthStar Rep. Signature: CP

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

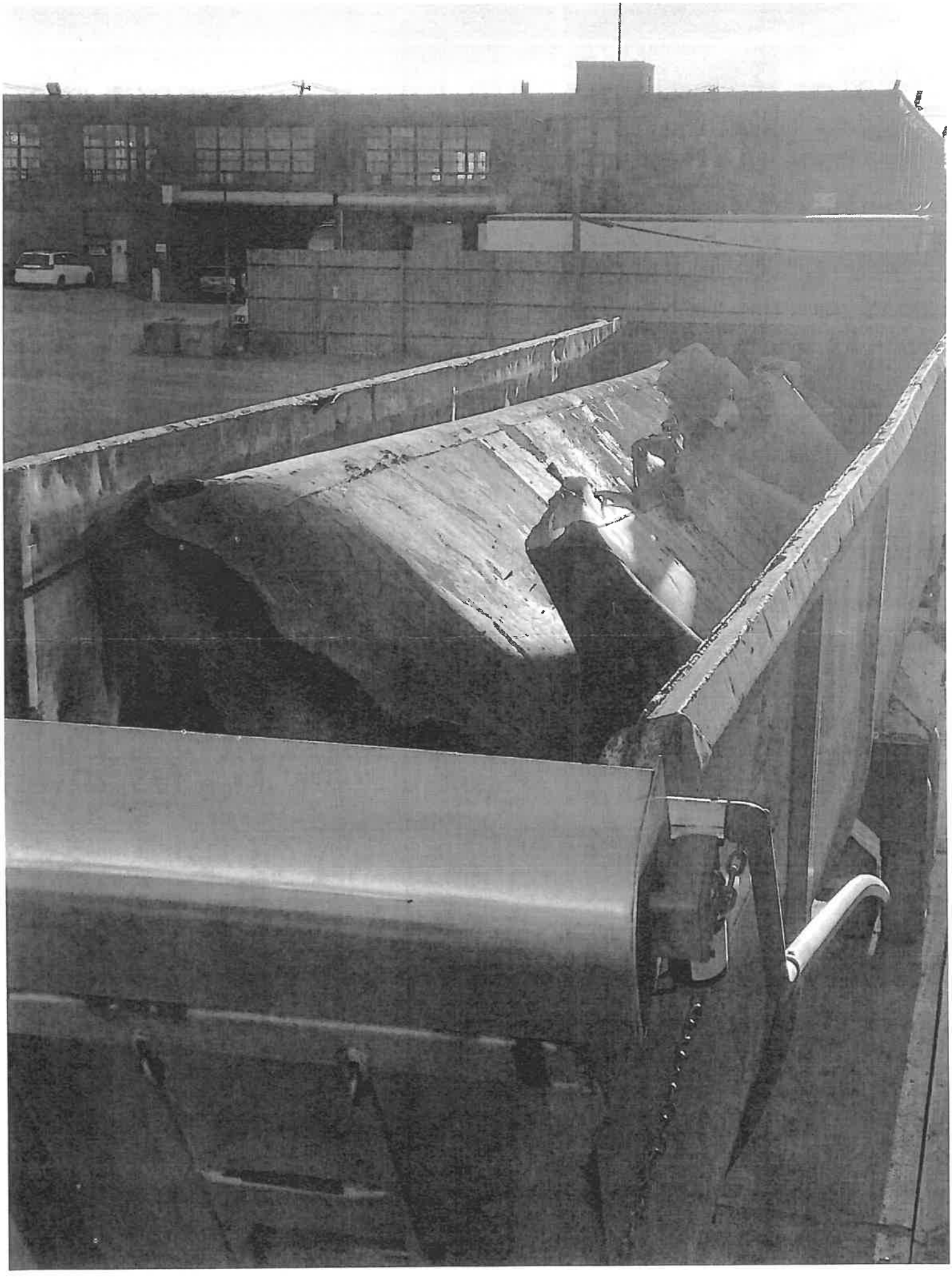
Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031698
Date: 11/05/2021 7:46 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83545.351
Loads: 5511

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.74 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65080.00	41600.00	23480.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17540

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 275

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 65180 lbs

Tare Weight: 40480 lbs

Net Weight: 24700 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031699
Date: 11/05/2021 7:50 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83557.701
Loads: 5512

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	12.35 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65180.00	40480.00	24700.00

47540

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Weathston

Address PES

Truck No. 56 Cust. No. 17546

Gross

Tare

Net

Weigh-In:
ID#: 56
08:25 am 11/05/21
65020 lb

Weigh-Out:
ID#: 56
08:38 am 11/05/21
65020 lb Gross
41280 lb Tare
23740 lb Net

Vap Burn
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32181

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17540

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 65180 lbs

Tare Weight: 40480 lbs

Net Weight: 24700 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

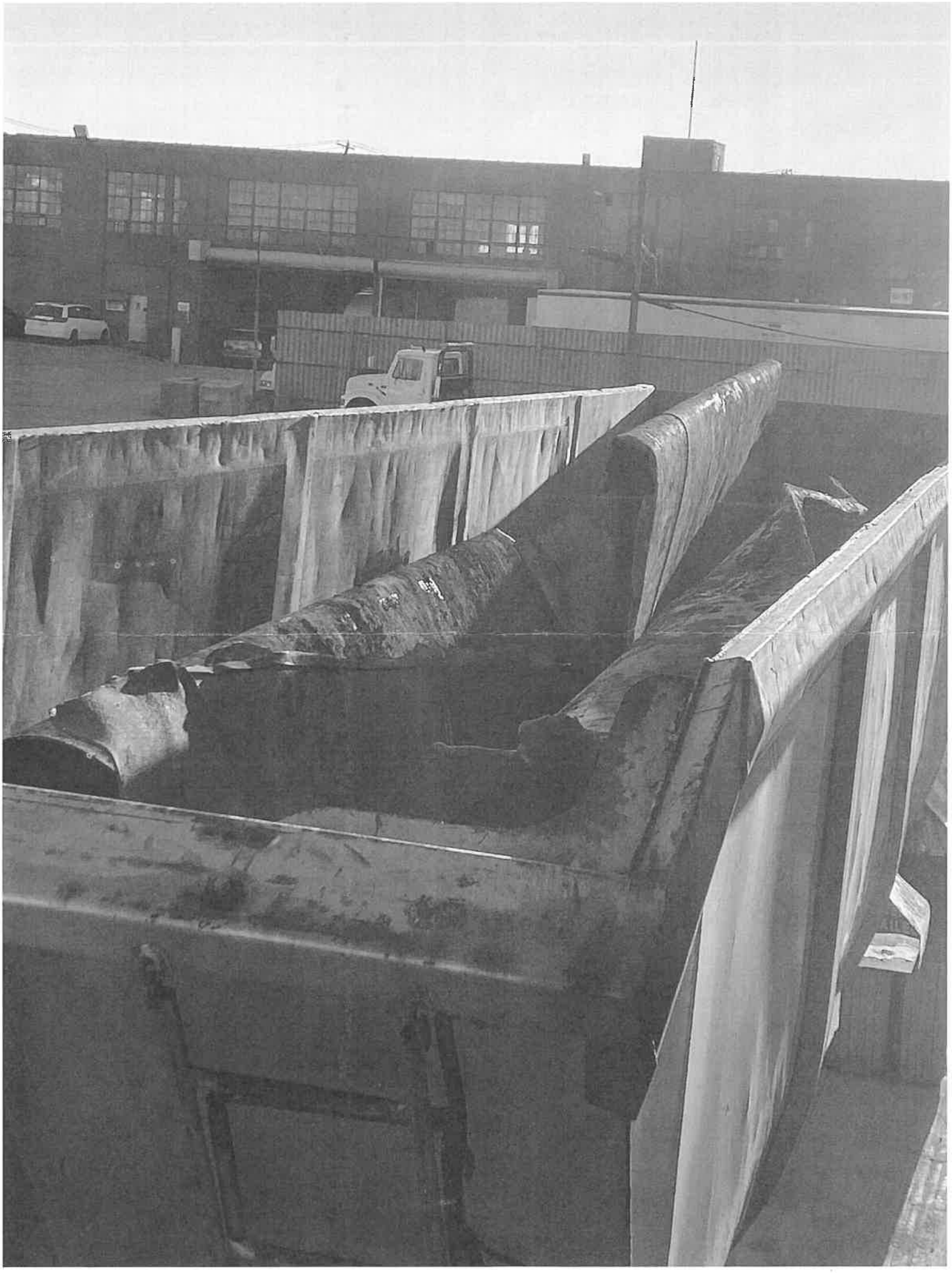
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17542

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 57940 lbs

Tare Weight: 42060 lbs

Net Weight: 15940 lbs

NorthStar Rep. Signature: JE

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031701
Date: 11/05/2021 8:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83586.621
Loads: 5514

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.97 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57940.00	42000.00	15940.00


17542

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Weidner

Address PES

Truck No. 6 Cust. No. 1752

Gross

Tare

Net

Weigh-In:
ID#: 6
08:32 am 11/05/21
57560 lb

Weigh-Out:
ID#: 6
08:56 am 11/05/21
57560 lb Gross
42660 lb Tare
14900 lb Net

VND Burning
Tank place

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32182

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17542

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 57940 lbs

Tare Weight: 42000 lbs

Net Weight: 15940 lbs

NorthStar Rep. Signature: LD

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031701
Date: 11/05/2021 8:00 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83586.621
Loads: 5514

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.97 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57940.00	42000.00	15940.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17552

#5120103

Date: 11-5-21

Scrap

Sold to: Allentown

Location: TANK 225

Carrier: Allentown

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 63220 lbs

Tare Weight: 41200 lbs

Net Weight: 22020 lbs

NorthStar Rep. Signature: CD

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031713
Date: 11/05/2021 9:29 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83711.436
Loads: 5524

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.01 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	63620.00	41600.00	22020.00

THE MONSTER
17552
2997

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Nucor Steel PES

Address

Truck No. 260 Cust. No. 17552

Gross

Tare

Net

Weigh-In:
ID#: 260
10:03 am 11/05/21
63540 lb

Weigh-Out:
ID#: 260
10:17 am 11/05/21
63540 lb Gross
42020 lb Tare
21520 lb Net

Vap Burnt Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32187

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17552

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Hillesley

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 63620 lbs

Tare Weight: 41600 lbs

Net Weight: 22020 lbs

NorthStar Rep. Signature: CD

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

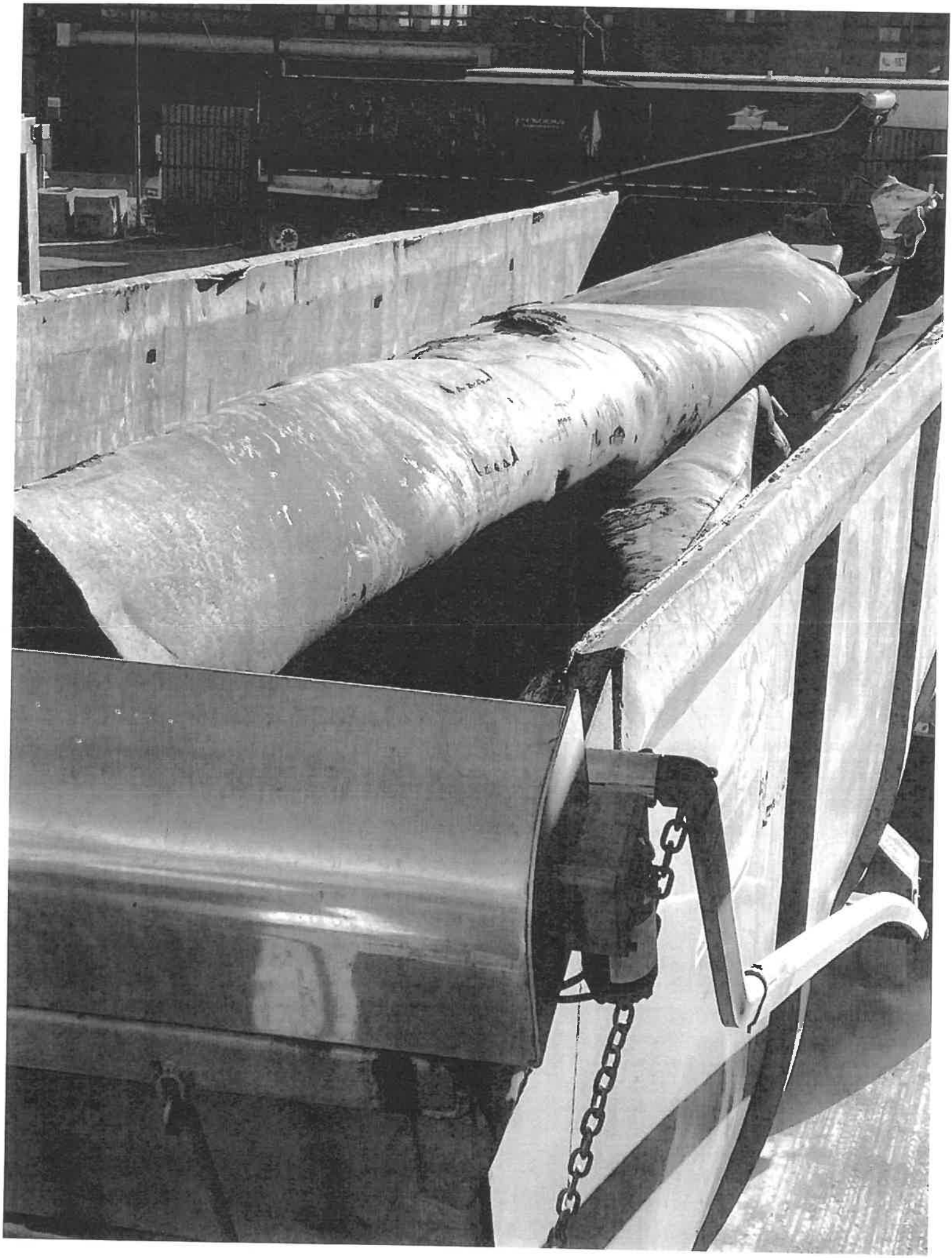
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031713
Date: 11/05/2021 9:29 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83711.436
Loads: 5524

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.01 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	63620.00	41600.00	22020.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

#5120103

Load Ticket: 17554

Date: 11-5-21

Scrap

Sold to: Allegiance

Location: TANK 225

Carrier: Allegiance

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 71080 lbs

Tare Weight: 40480 lbs

Net Weight: 2460 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031715
Date: 11/05/2021 9:43 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83740.966
Loads: 5526

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.8 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70080.00	40480.00	29600.00

17954

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11 5 21

Name NORTHERN PES

Address

Truck No. 56 Cust. No. 17554

Gross

Tare

Net

Weigh-In:
ID#: 56
10:19 am 11/05/21
70180 lb

Weigh-Out:
ID#: 56
10:40 am 11/05/21
70180 lb Gross
41140 lb Tare
29040 lb Net

VAP BURNER
TANK PLATE

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32192

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17554

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 70080 lbs

Tare Weight: 40480 lbs

Net Weight: 29600 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:

SLOW

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031715
Date: 11/05/2021 9:43 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83740.966
Loads: 5526

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.8 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70080.00	40480.00	29600.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17556

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 325

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 70340 lbs

Tare Weight: 42000 lbs

Net Weight: 28340 lbs

NorthStar Rep. Signature: GB

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031717
Date: 11/05/2021 9:53 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83769.986
Loads: 5528

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.17 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70340.00	42000.00	28340.00

99971756

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11 5 21

Name NUMOTOR

Address PES

Truck No. 6 Cust. No. 17556

Gross

Tare

Net

Weigh-In:
ID#: 6
10:36 am 11/05/21
70100 lb

Weigh-Out:
ID#: 6
10:48 am 11/05/21
70100 lb Gross
42660 lb Tare
27440 lb Net

VAP
BURNING TAKE
PLACE

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32194

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17556

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 70340 lbs

Tare Weight: 42000 lbs

Net Weight: 28340 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

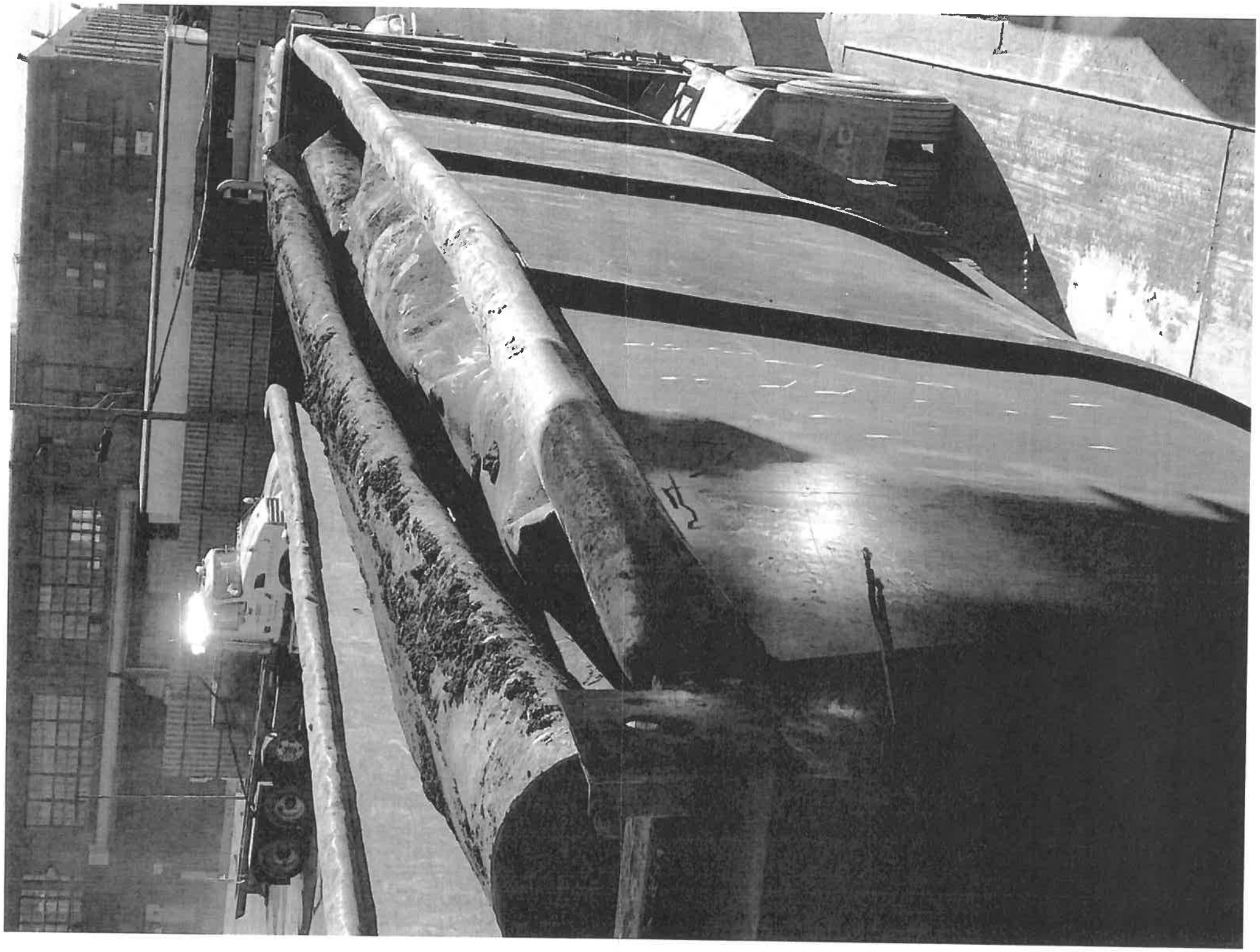
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031717
Date: 11/05/2021 9:53 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83769.986
Loads: 5528

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	14.17 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70340.00	42000.00	28340.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

#5120103

Load Ticket: 17562

Date: 11-5-21

Scrap

Sold to: Allenby

Location: TANK 225

Carrier: Allenby

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 57780 lbs

Tare Weight: 37650 lbs

Net Weight: 20130 lbs

NorthStar Rep. Signature: LB

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031723
Date: 11/05/2021 10:48 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83861.861
Loads: 5534

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	10.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57780.00	37650.00	20130.00

29671

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name NORTHSTAR

Address PES

Truck No. 8 Cust. No. 17562

Gross

Tare

Net

Weigh-In:
ID#: 8
11:18 am 11/05/21
57680 lb

Weigh-Out:
ID#: 8
11:31 am 11/05/21
57680 lb Gross
38620 lb Tare
19060 lb Net

VAP BUCKET
TAIL PLATE

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32198

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17562

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 57780 lbs

Tare Weight: 37650 lbs

Net Weight: 20130 lbs

NorthStar Rep. Signature: CD

Received By: ✓

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

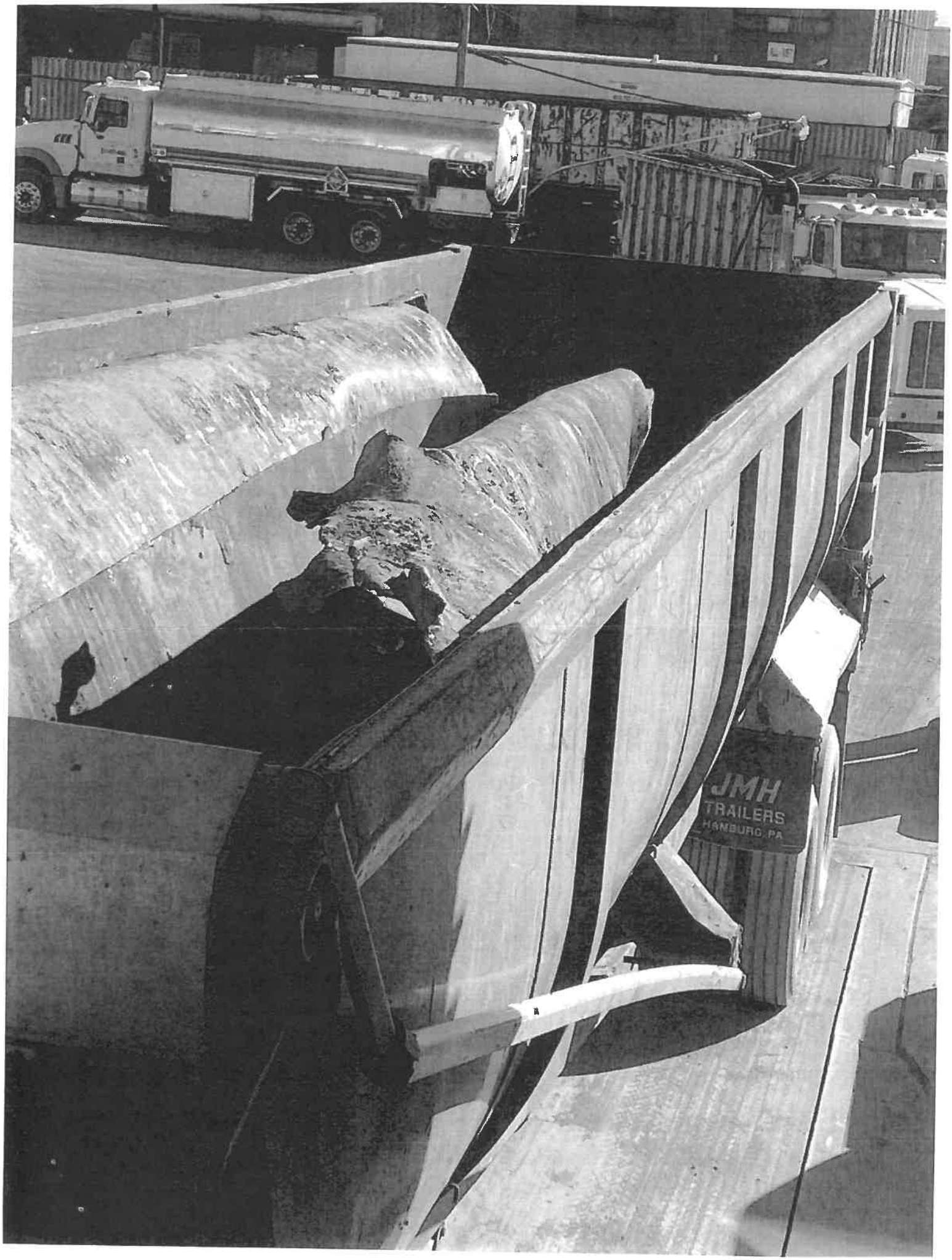
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:


JMH
TRAILERS
HAMBURG, PA

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031723
Date: 11/05/2021 10:48 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83861.861
Loads: 5534

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	10.06 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57780.00	37650.00	20130.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17567

#5120103

Date: 11-5-21

Scrap

Sold to: Allegany

Location: TANK 225

Carrier: Allegany

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 64480 lbs

Tare Weight: 41600 lbs

Net Weight: 22880 lbs

NorthStar Rep. Signature: CR

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031725
Date: 11/05/2021 11:11 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83889.631
Loads: 5536

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.44 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64480.00	41600.00	22880.00

THE MONSTER
1967

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11 5 21

Name Worthington

Address PFS

Truck No. 260 Cust. No. 17567

Gross

Tare

Net

Weigh-In:
ID#: 260
11:45 am 11/05/21
64420 lb

Weigh-Out:
ID#: 260
11:55 am 11/05/21
64420 lb Gross
41900 lb Tare
22520 lb Net

VAP
Burnt Tank
Plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32203

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17567

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 64480 lbs

Tare Weight: 41600 lbs

Net Weight: 22880 lbs

NorthStar Rep. Signature: CK

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

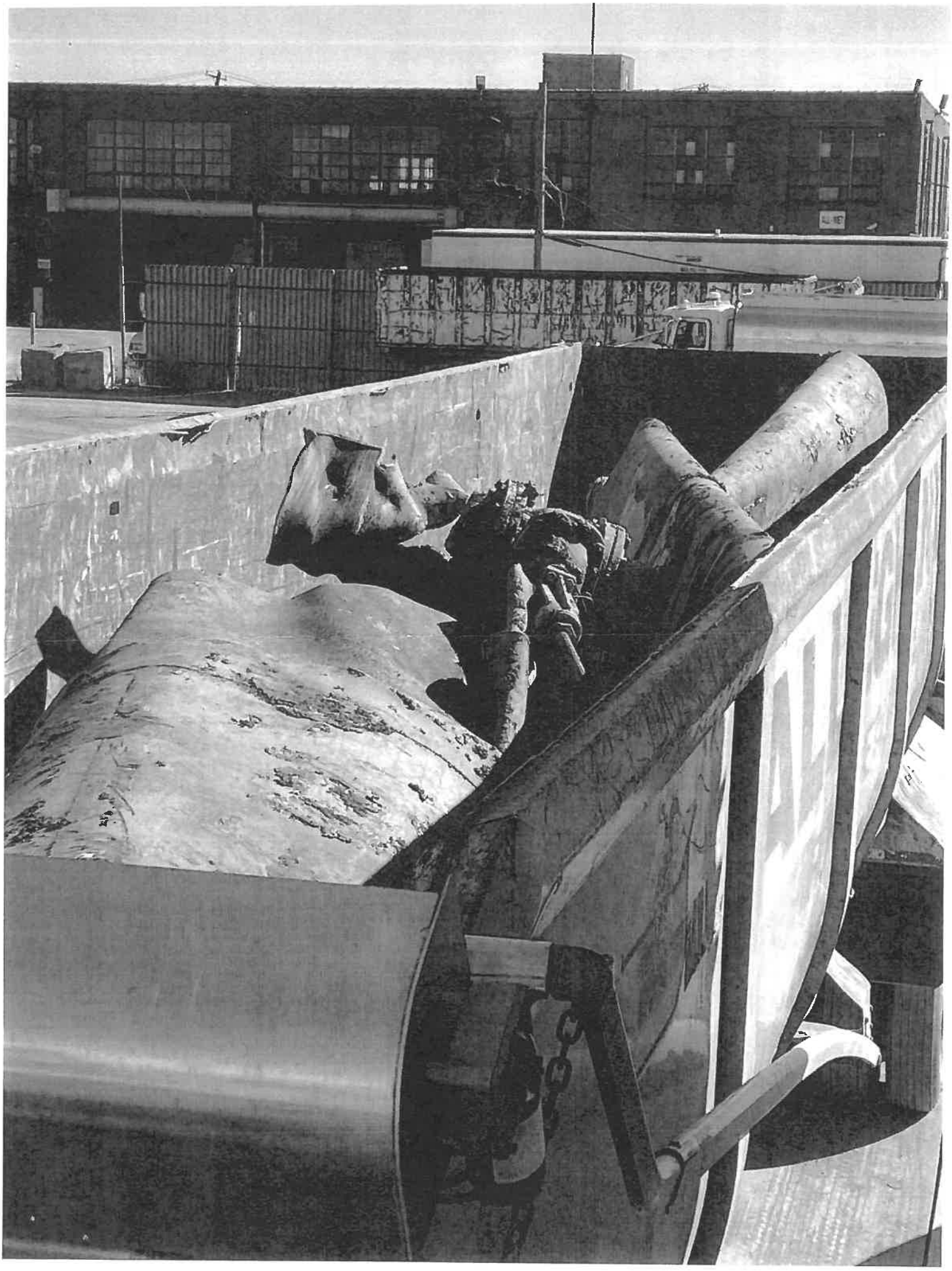
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031725
Date: 11/05/2021 11:11 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83889.631
Loads: 5536

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.44 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64480.00	41600.00	22880.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17571

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade__________
- ☐ Other Alloy, Grade__________
- ☐ Mixed
- ☐ Other: __________

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:__________

Scale Ticket #:__________

Gross Weight: 60200 lbs

Tare Weight: 40480 lbs

Net Weight: 19720 lbs

NorthStar Rep. Signature:__________

Received By:__________

Non-Haz / ACM / Special Waste

Activity Location:__________

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:__________

Carrier:__________

Truck #:__________

Container #:__________

Manifest #:__________

Profile / Approval #:__________

Scale Info

Scale Ticket #:__________

Gross Weight:__________

Tare weight:__________

Net weight:__________

Net Kilogram Conversion (PCB Only):__________

NorthStar Rep. Signature:__________

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031729
Date: 11/05/2021 11:34 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 83952.871
Loads: 5540

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	9.86 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	60200.00	40480.00	19720.00

1757/1

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Northstar PES

Address

Truck No. 56 Cust. No. 17571

Gross

Tare

Net

Weigh-In:
ID#: 56
12:07 pm 11/05/21
59960 lb

Weigh-Out:
ID#: 56
12:19 pm 11/05/21
59960 lb Gross
41220 lb Tare
18740 lb Net

VMP
Bucks Tax
PLATE

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32205

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17571

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 60200 lbs

Tare Weight: 40480 lbs

Net Weight: 19720 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

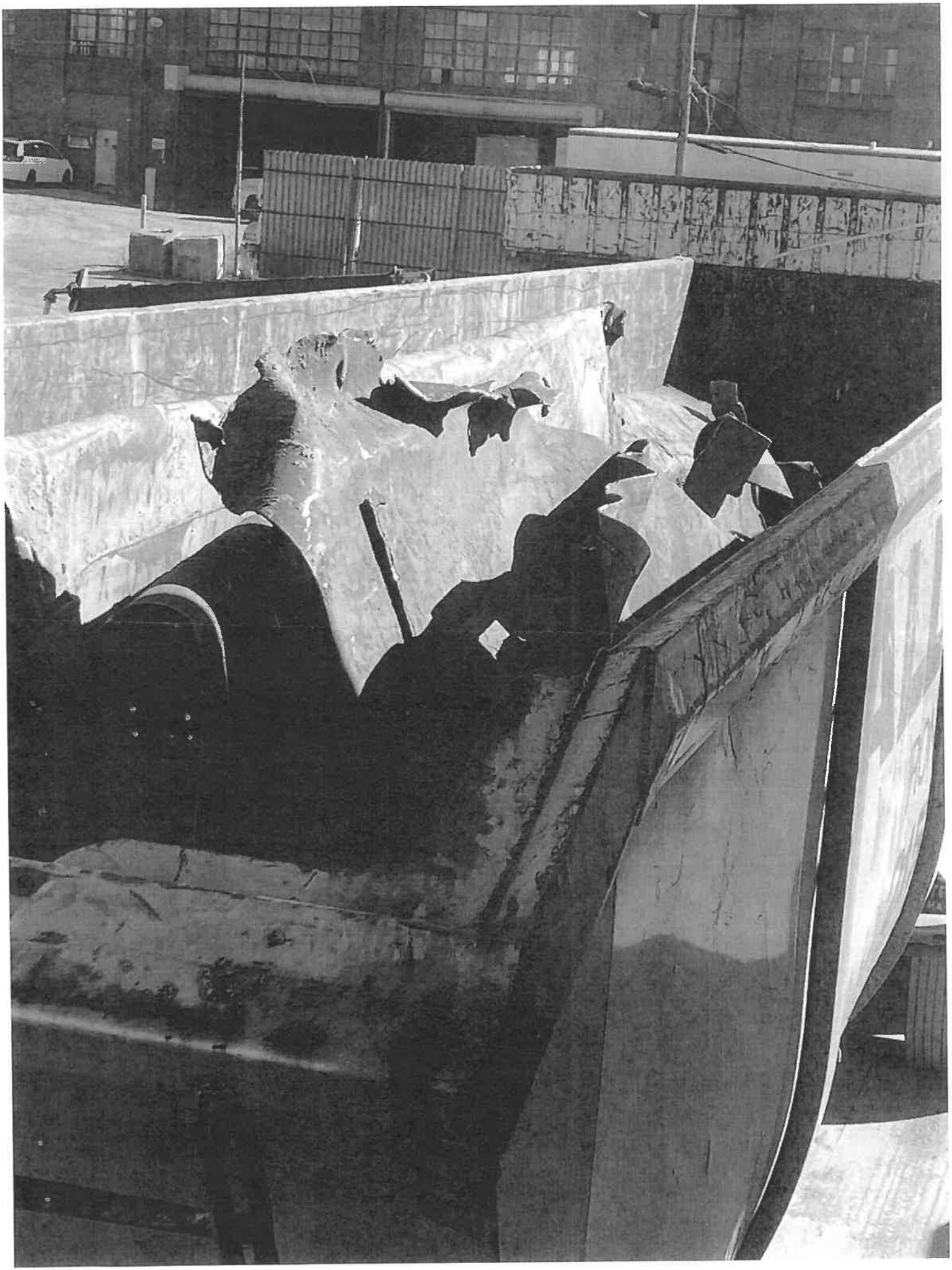
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031729
Date: 11/05/2021 11:34 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 83952.871
Loads: 5540

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	9.86 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	60200.00	40480.00	19720.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17574

#5120103

Date: 11-5-21

Scrap

Sold to: _____

Location: TANK 235

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 64660 lbs

Tare Weight: 32000 lbs

Net Weight: 32660 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031732
Date: 11/05/2021 11:49 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84000.971
Loads: 5543

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.33 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	68660.00	42000.00	26660.00

1757/4

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name NORTHSTAR

Address PES

Truck No. 6 Cust. No. 1750

Gross

Tare

Net

Weigh-In:
ID#: 6
12:21 PM 11/05/21
68580 lb

Weigh-Out:
ID#: 6
12:32 PM 11/05/21
68580 lb Gross
42660 lb Tare
25920 lb Net

VAP Burner
Tank plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32208

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17574

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 68660 lbs

Tare Weight: 42000 lbs

Net Weight: 26660 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

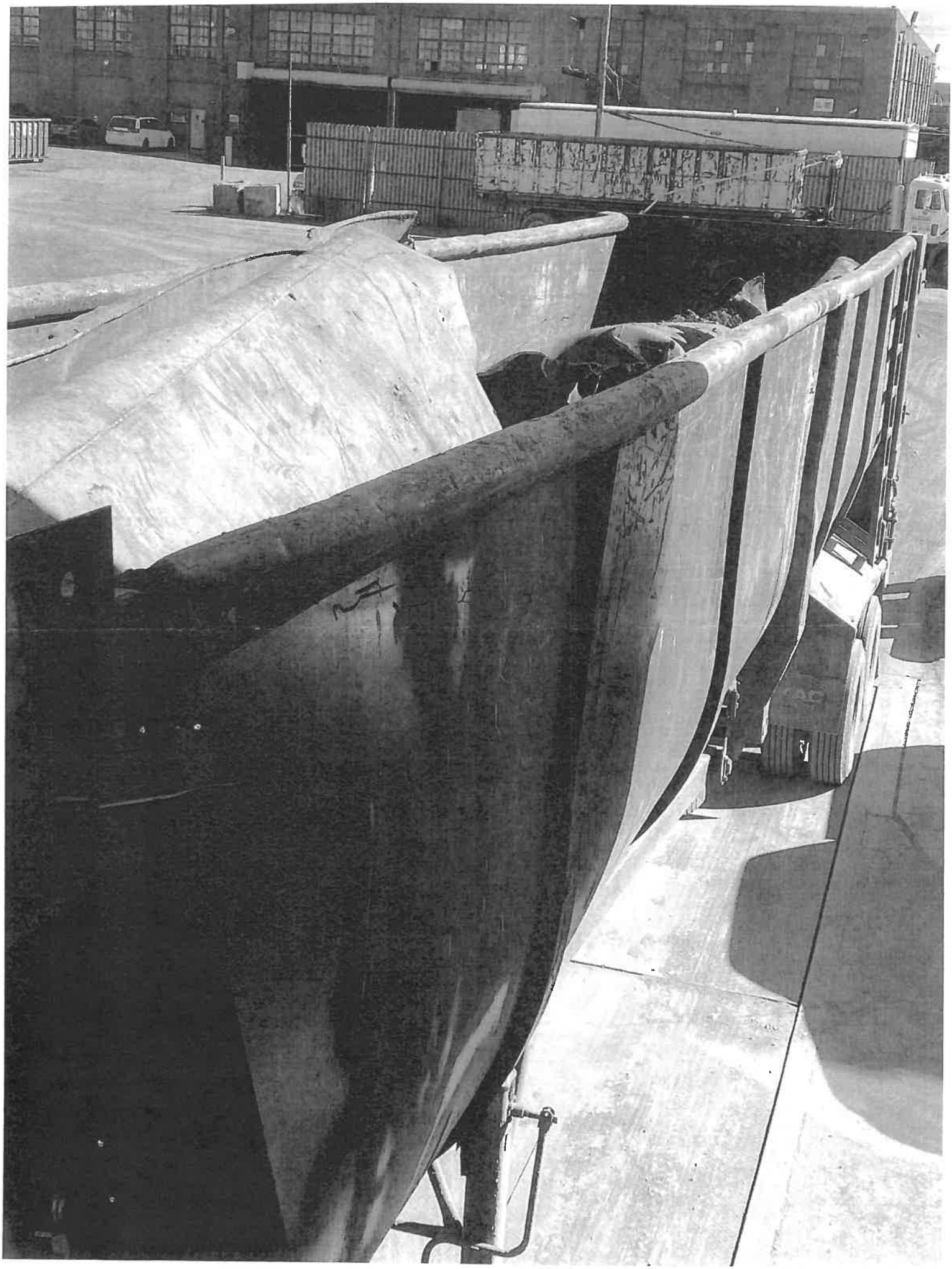
Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature: _____



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031732
Date: 11/05/2021 11:49 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 84000.971
Loads: 5543

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.33 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	68660.00	42000.00	26660.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

#5120103

Load Ticket: 17576

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 51900 lbs

Tare Weight: 37650 lbs

Net Weight: 14250 lbs

NorthStar Rep. Signature: LB

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031734
Date: 11/05/2021 12:06 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84021.316
Loads: 5545

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.12 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	51900.00	37650.00	14250.00

1757/6

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Wolfstar

Address PFS

Truck No. 8 Cust. No. 17576

Gross

Tare

Net

Weigh-In:
ID#: 8
12:35 PM 11/05/21
51720 lb

Weigh-Out:
ID#: 8
12:41 PM 11/05/21
51720 lb Gross
38560 lb Tare
13160 lb Net

VAP
Burnt Tnk
Plate

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32210

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17576

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK. 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other: TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 51900 lbs

Tare Weight: 37650 lbs

Net Weight: 14250 lbs

NorthStar Rep. Signature: [signature]

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

JMH
TRAILERS
HAMBURG, PA

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031734
Date: 11/05/2021 12:06 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 84021.316
Loads: 5545

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.12 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	51900.00	37650.00	14250.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17579

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 325

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade________
- ☐ Other Alloy, Grade________
- ☐ Mixed
- ☐ Other: ________

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:________

Scale Ticket #: ________

Gross Weight: 64865 lbs

Tare Weight: 11400 lbs

Net Weight: 33[illegible]60 lbs

NorthStar Rep. Signature: [signature]

Received By: [signature]

Non-Haz / ACM / Special Waste

Activity Location: ________

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:________

Carrier:________

Truck #:________

Container #:________

Manifest #:________

Profile / Approval #:________

Scale Info

Scale Ticket #:________

Gross Weight:________

Tare weight:________

Net weight:________

Net Kilogram Conversion (PCB Only):________

NorthStar Rep. Signature:________

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031738
Date: 11/05/2021 12:41 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84061.676
Loads: 5548

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.63 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64860.00	41600.00	23260.00

1759
THE MONSTER

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11/5/21

Name Northstar

Address PES

Truck No. 260 Cust. No. 17529

Gross

Tare

Net

Weigh-In:
ID#: 260
01:19 PM 11/05/21
64520 lb

Weigh-Out:
ID#: 260
01:30 PM 11/05/21
64520 lb Gross
41820 lb Tare
22700 lb Net

VAP
Bulk Tank
Plastic

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32215

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17579

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other TANK Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 64860 lbs

Tare Weight: 41600 lbs

Net Weight: 23260 lbs

NorthStar Rep. Signature: CD

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031738
Date: 11/05/2021 12:41 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 84061.676
Loads: 5548

DT260-50 - TRUCK 260 W/ TRAILER 50
CARLAD - CARLA DAVILA

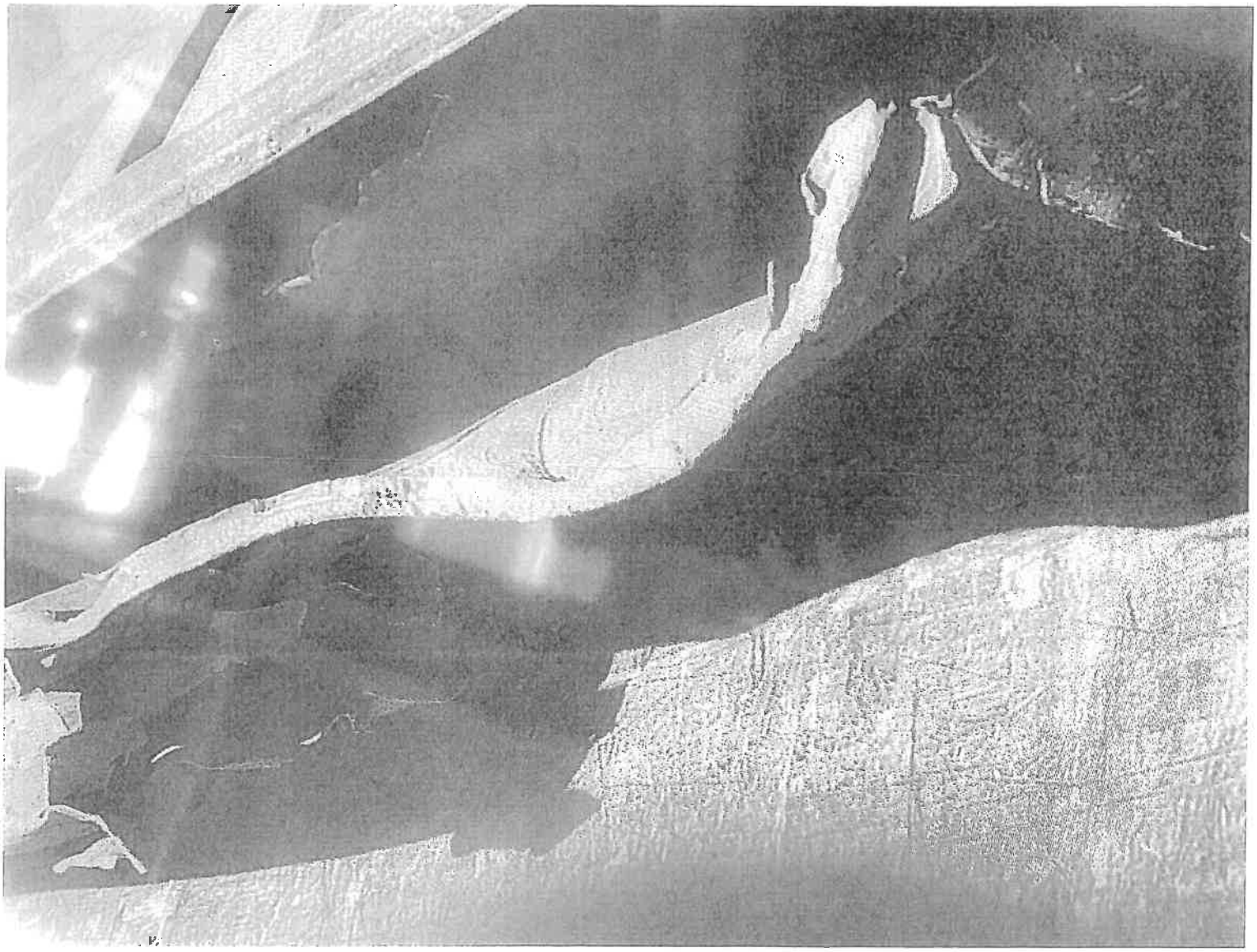
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.63 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64860.00	41600.00	23260.00



NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17582

#5120103

Date: 11-5-21

Scrap

Sold to: Allegheny Tank 325

Location: _____

Carrier: Allegheny

Steel / Ferrous

- [x] No. 1 P+S
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade_____
- [ ] Other Alloy, Grade_____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other:_____

Scale Ticket #: _____

Gross Weight: 76720 lbs

Tare Weight: 49480 lbs

Net Weight: 27240 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031741
Date: 11/05/2021 1:13 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84107.506
Loads: 5551

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.15 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70780.00	40480.00	30300.00


17582

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name NORMSTAR

Address PES

Truck No. 56 Cust. No. 17582

Gross

Tare

Net

Weigh-In:
ID#: 56
01:47 pm 11/05/21
70580 lb

Weigh-Out:
ID#: 56
02:01 pm 11/05/21
70580 lb Gross
40080 lb Tare
30500 lb Net

VMP
#1 SHEARING

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32217

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17582

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- [x] No. 1 P+S
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade _____
- [ ] Other Alloy, Grade _____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other: _____

Scale Ticket #: _____

Gross Weight: 70780 lbs

Tare Weight: 40480 lbs

Net Weight: 30300 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031741
Date: 11/05/2021 1:13 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 84107.506
Loads: 5551

DT1-56 - ALLEGHENY TRUCK 1 W/TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.15 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	70780.00	40480.00	30300.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

#5120103

Load Ticket: 17586

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TAUK 225

Carrier: Billerberry

Steel / Ferrous

- [x] No. 1 P+S
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade _____
- [ ] Other Alloy, Grade _____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other: _____

Scale Ticket #: _____

Gross Weight: 72560 lbs

Tare Weight: 42000 lbs

Net Weight: 30560 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031745
Date: 11/05/2021 1:32 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84172.556
Loads: 5555

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.28 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	72560.00	42000.00	30560.00

17598

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name WALMART

Address PES

Truck No. 6 Cust. No. 1756

Gross

Tare

Net

Weigh-In:
ID#: 6
02:05 PM 11/05/21
72320 lb

Weigh-Out:
ID#: 6
02:24 PM 11/05/21
72320 lb Gross
41840 lb Tare
30480 lb Net

VALP
#1 SHRED

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32219

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17586

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- [x] No. 1 P+S
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade_____
- [ ] Other Alloy, Grade_____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other:_____

Scale Ticket #: _____

Gross Weight: 72560 lbs

Tare Weight: 42000 lbs

Net Weight: 30560 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

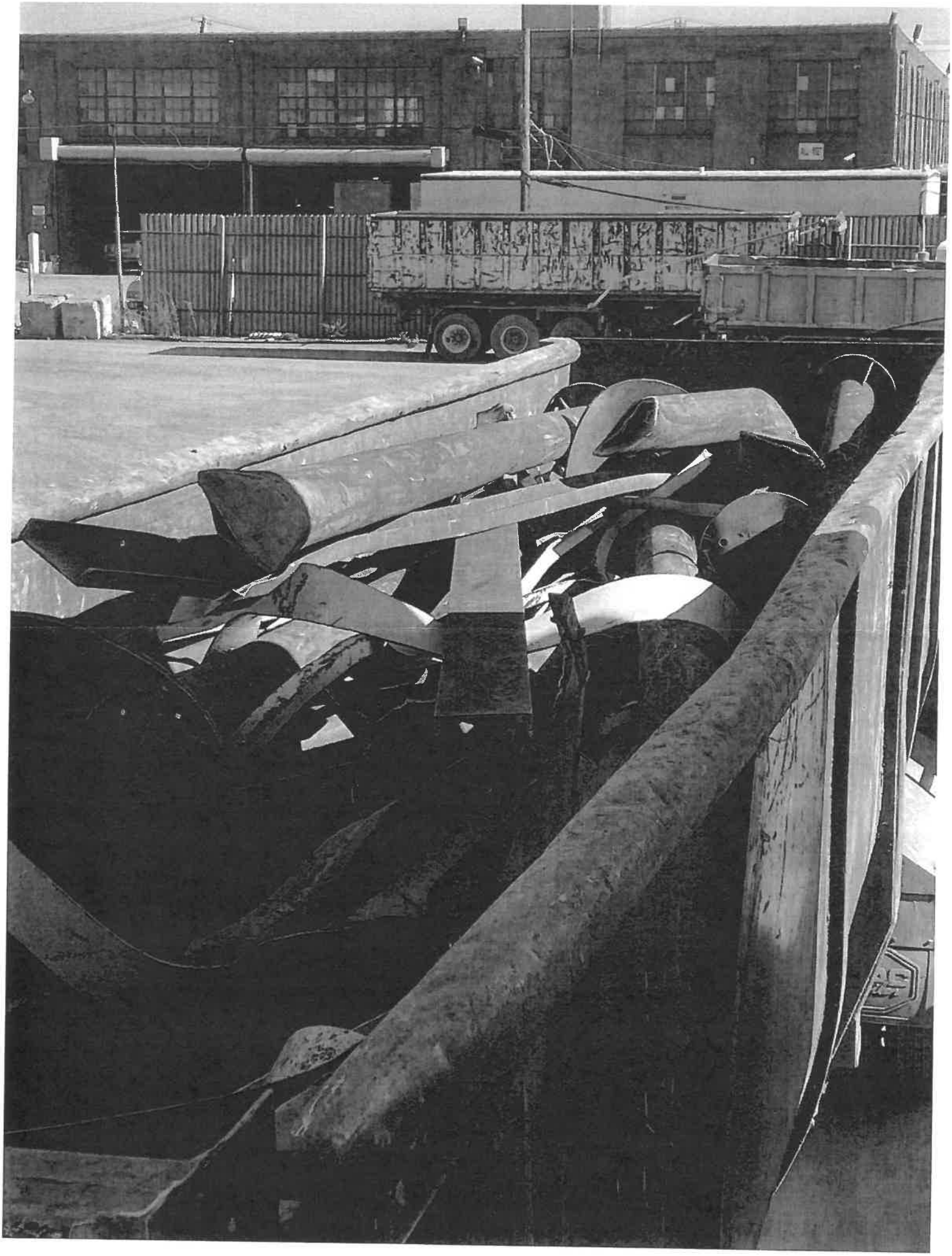
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031745
Date: 11/05/2021 1:32 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84172.556
Loads: 5555

DT06-103 - ALLEGHENY TRUCK 06 W/TRAILER 103
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	15.28 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	72560.00	42000.00	30560.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

#5120103

Load Ticket: 17587

Date: 11-5-21

Scrap

Sold to: Allsteel

Location: TANK FARM

Carrier: Allsteel

Steel / Ferrous

- [X] No. 1 ~~P+S~~ PIPE
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade_____
- [ ] Other Alloy, Grade_____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other:_____

Scale Ticket #:_____

Gross Weight: 45230 lbs

Tare Weight: 27650 lbs

Net Weight: 17580 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031746
Date: 11/05/2021 1:44 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 84186.341
Loads: 5556

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.78 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65220.00	37650.00	27570.00

1787

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 11-5-21

Name Norinstar

Address PES

Truck No. 8 Cust. No. 17587

Weigh-In:
ID#: 8
02:17 pm 11/05/21
65120 lb

Gross

Tare

Net

Weigh-Out:
ID#: 8
02:26 pm 11/05/21
65120 lb Gross
37440 lb Tare
27680 lb Net

VNP #1
SHMAL

Haul - Fuel Charge:

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 32220

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 17587

Date: 11-5-21

Scrap

Sold to: Allegheny

Location: TANK 225

Carrier: Allegheny

Steel / Ferrous

- [x] No. 1 ~~P&S~~ PIPE
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [ ] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other _____

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade _____
- [ ] Other Alloy, Grade _____
- [ ] Mixed
- [ ] Other: _____

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [ ] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other: _____

Scale Ticket #: _____

Gross Weight: 65 220 lbs

Tare Weight: 37650 lbs

Net Weight: 27570 lbs

NorthStar Rep. Signature: CD

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

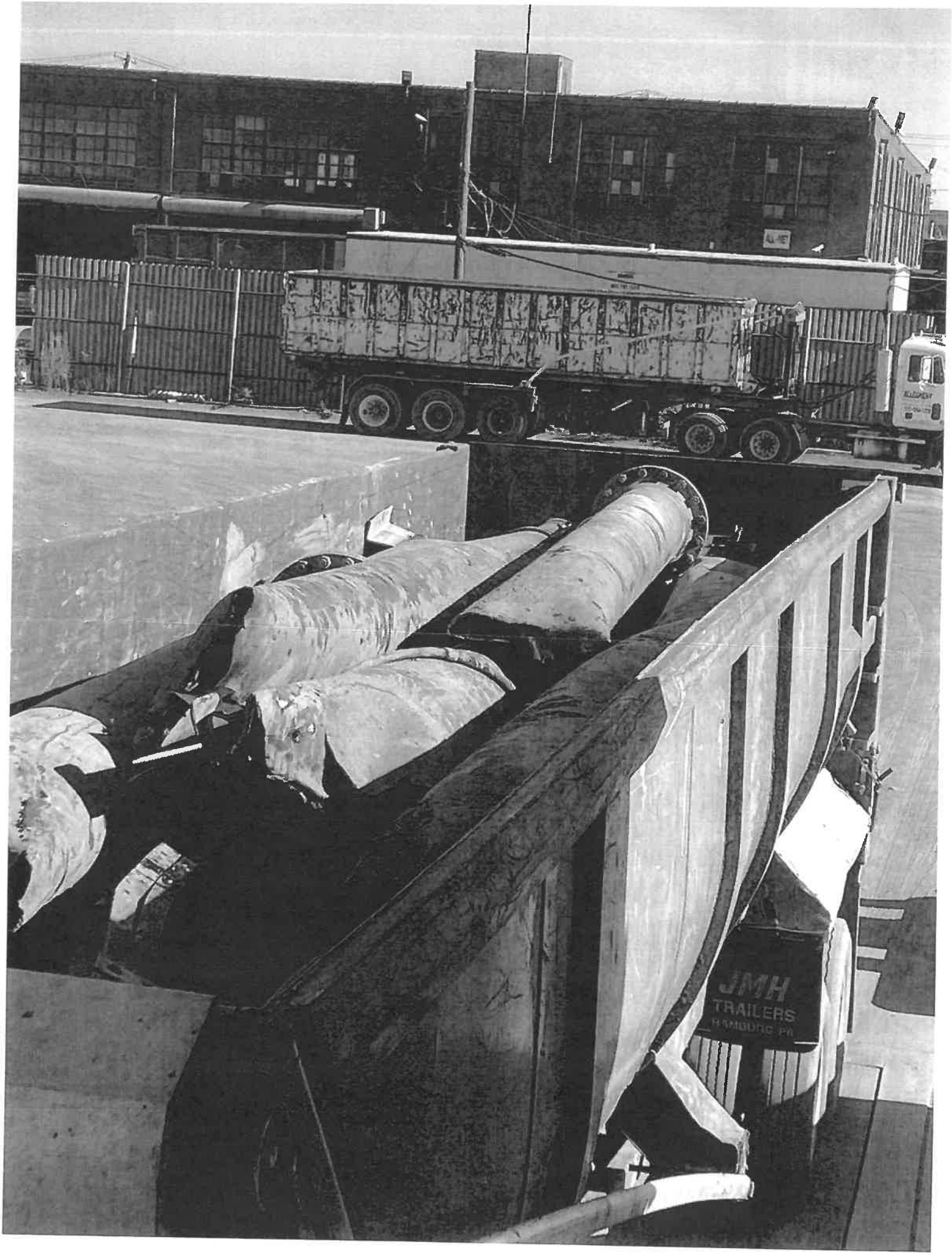
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


JMH
TRAILERS

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20031746
Date: 11/05/2021 1:44 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 84186.341
Loads: 5556

DT08-70 - SUPREME TRUCK 08 W/TRAILER 70
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	13.78 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65220.00	37650.00	27570.00

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 016A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 33624

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 3 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____

_____

_____

_____ ----→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ----→ Remove or remediate contaminated soil ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records.

☐ NO ----→ Continue Interim Remedial Actions ----→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records.

☐ YES ----→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):_____

_____

_____

_____

Continue with corrective action ----→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Kevin Long , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Kevin L. Long

Signature of Person Performing Site Assessment

09/24/2024 / /
Date

Principal Consultant
Title of Person Performing Site Assessment

Terraphase Engineering Inc.
Name of Company Performing Site Assessment

609-236-8171 x93
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information (Attachment for Section III.)

Facility ID Number__51 - 33624______

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
See attached summary table							/ /	/ /
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[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:

P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.

N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: -

County:

Township/Borough: See attached Figure

Table 3 - 016A (GP R 227)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR227-01	GPR227-01-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	1.1	0.16	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.04	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.08	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.26	0.16	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Anthracene	SW8270E	Soil	5.8	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Benzene	SW8260D	Soil	0.022	0.04	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	12	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	14	0.91	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	15	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	7.4	0.91	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Chrysene	SW8270E	Soil	12	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Cumene	SW8260D	Soil	0.45	0.08	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	0.079	0.08	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Fluorene	SW8270E	Soil	5.4	1.1	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Lead	SW6010D	Soil	162	4.55	4/24/2024	4/30/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.16	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	3.8	0.23	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	19	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Pyrene	SW8270E	Soil	18	0.68	4/24/2024	4/27/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Toluene	SW8260D	Soil	0.16	0.08	4/24/2024	4/29/2024
GPR227-01	GPR227-01-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.59	0.16	4/24/2024	4/29/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0025	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00064	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0013	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0025	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Anthracene	SW8270E	Soil	ND	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Benzene	SW8260D	Soil	ND	0.00064	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Benzo(a)anthracene	SW8270E	Soil	0.11	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Benzo(a)pyrene	SW8270E	Soil	0.12	0.19	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Benzo(b)fluoranthene	SW8270E	Soil	0.15	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Benzo(g,h,i)perylene	SW8270E	Soil	0.065	0.19	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Chrysene	SW8270E	Soil	0.096	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Cumene	SW8260D	Soil	ND	0.0013	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Ethyl Benzene	SW8260D	Soil	ND	0.0013	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Fluorene	SW8270E	Soil	ND	0.23	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Lead	SW6010D	Soil	14.6	5.45	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0025	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Naphthalene	SW8270E	Soil	0.073	0.047	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Phenanthrene	SW8270E	Soil	ND	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Pyrene	SW8270E	Soil	0.11	0.14	4/24/2024	4/27/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Toluene	SW8260D	Soil	ND	0.0013	4/24/2024	4/30/2024
GPR227-02	GPR227-02-SS01	1.5	2.0	Xylenes (total)	SW8260D	Soil	ND	0.0025	4/24/2024	4/30/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0018	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00046	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.00092	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0003	0.0018	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Anthracene	SW8270E	Soil	2	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Benzene	SW8260D	Soil	0.00015	0.00046	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Benzo(a)anthracene	SW8270E	Soil	4.1	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Benzo(a)pyrene	SW8270E	Soil	4.4	0.15	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Benzo(b)fluoranthene	SW8270E	Soil	5.2	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Benzo(g,h,i)perylene	SW8270E	Soil	2.3	0.15	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Chrysene	SW8270E	Soil	3.8	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Cumene	SW8260D	Soil	0.00038	0.00092	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Ethyl Benzene	SW8260D	Soil	ND	0.00092	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Fluorene	SW8270E	Soil	1.3	0.19	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Lead	SW6010D	Soil	74.6	4.38	4/24/2024	4/30/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0018	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Naphthalene	SW8270E	Soil	2	0.038	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Phenanthrene	SW8270E	Soil	3.3	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Pyrene	SW8270E	Soil	5.3	0.11	4/24/2024	4/27/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Toluene	SW8260D	Soil	0.00075	0.00092	4/24/2024	4/29/2024
GPR227-03	GPR227-03-SS01	1.0	1.5	Xylenes (total)	SW8260D	Soil	0.00326	0.0018	4/24/2024	4/29/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0022	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00054	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0022	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Anthracene	SW8270E	Soil	0.86	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.00054	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	4.2	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	4.5	0.16	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	5.6	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	2.2	0.16	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Chrysene	SW8270E	Soil	3.7	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Cumene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Fluorene	SW8270E	Soil	0.47	0.2	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Lead	SW6010D	Soil	48.5	4.82	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0022	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	1.7	0.04	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	1.8	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Pyrene	SW8270E	Soil	4.9	0.12	4/24/2024	4/27/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Toluene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-04	GPR227-04-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	ND	0.0022	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.0028	0.0021	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00052	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Anthracene	SW8270E	Soil	3	0.31	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Benzene	SW8260D	Soil	ND	0.00052	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	3	0.31	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	3.1	0.42	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	3.3	0.31	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	2	0.42	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Chrysene	SW8270E	Soil	3.7	0.31	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Cumene	SW8260D	Soil	0.0032	0.001	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Fluorene	SW8270E	Soil	2.4	0.52	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Lead	SW6010D	Soil	32.1	4.35	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	0.56	0.1	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	6.4	0.31	4/24/2024	4/27/2024

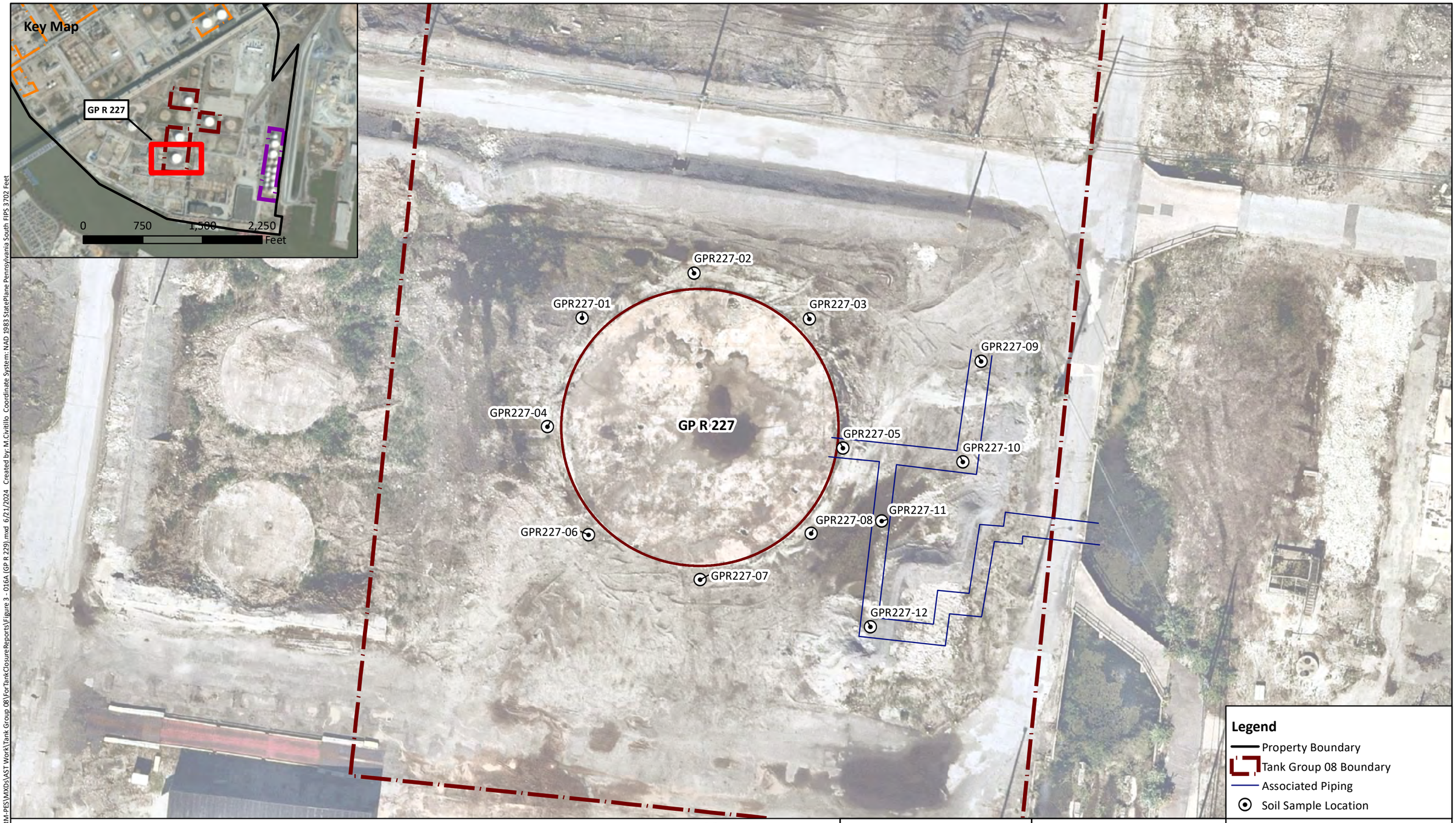
Table 3 - 016A (GP R 227)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR227-05	GPR227-05-SS01	2.5	3.0	Pyrene	SW8270E	Soil	6.3	0.31	4/24/2024	4/27/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-05	GPR227-05-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.0041	0.0021	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00053	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Anthracene	SW8270E	Soil	0.62	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.00053	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	1.4	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	1.4	0.17	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	1.6	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	0.96	0.17	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Chrysene	SW8270E	Soil	1.7	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Cumene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Fluorene	SW8270E	Soil	0.51	0.21	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Lead	SW6010D	Soil	497	4.97	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	0.81	0.042	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	2.2	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Pyrene	SW8270E	Soil	2.5	0.12	4/24/2024	4/27/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Toluene	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-06	GPR227-06-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.019	0.0022	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00055	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.001	0.0022	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Anthracene	SW8270E	Soil	4.2	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Benzene	SW8260D	Soil	0.00032	0.00055	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Benzo(a)anthracene	SW8270E	Soil	4.3	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Benzo(a)pyrene	SW8270E	Soil	3.5	0.93	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Benzo(b)fluoranthene	SW8270E	Soil	3.4	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.6	0.93	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Chrysene	SW8270E	Soil	5.7	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Cumene	SW8260D	Soil	0.047	0.0011	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Ethyl Benzene	SW8260D	Soil	0.00052	0.0011	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Fluorene	SW8270E	Soil	4.2	1.2	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Lead	SW6010D	Soil	114	4.92	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0022	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Naphthalene	SW8270E	Soil	1.5	0.23	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Phenanthrene	SW8270E	Soil	15	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Pyrene	SW8270E	Soil	9.5	0.7	4/24/2024	4/27/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Toluene	SW8260D	Soil	0.001	0.0011	4/24/2024	4/30/2024
GPR227-07	GPR227-07-SS01	4.5	5.0	Xylenes (total)	SW8260D	Soil	0.0478	0.0022	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00053	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Anthracene	SW8270E	Soil	6.3	0.12	4/24/2024	4/27/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Benzene	SW8260D	Soil	ND	0.00053	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	21	2.5	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	17	3.3	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	19	2.5	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	7.1	0.16	4/24/2024	4/27/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Chrysene	SW8270E	Soil	16	2.5	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Cumene	SW8260D	Soil	0.00023	0.001	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Fluorene	SW8270E	Soil	11	4.1	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Lead	SW6010D	Soil	92.5	4.95	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	5	0.041	4/24/2024	4/27/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	44	2.5	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Pyrene	SW8270E	Soil	34	2.5	4/24/2024	5/1/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Toluene	SW8260D	Soil	ND	0.001	4/24/2024	4/30/2024
GPR227-08	GPR227-08-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	ND	0.0021	4/24/2024	4/30/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.017	0.0023	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.00057	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.0011	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.0073	0.0023	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Anthracene	SW8270E	Soil	3.3	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Benzene	SW8260D	Soil	0.00022	0.00057	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	8.4	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	6.8	0.47	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	7	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	3.2	0.47	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Chrysene	SW8270E	Soil	10	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Cumene	SW8260D	Soil	0.0083	0.0011	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	0.00045	0.0011	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Fluorene	SW8270E	Soil	1.8	0.58	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Lead	SW6010D	Soil	118	4.69	4/24/2024	4/30/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0023	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	1.2	0.12	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	11	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Pyrene	SW8270E	Soil	14	0.35	4/24/2024	4/27/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.0011	4/24/2024	5/1/2024
GPR227-09	GPR227-09-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.0092	0.0023	4/24/2024	5/1/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.031	0.12	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.03	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.06	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	1,3,5-Trimethylbenzene	SW8260D	Soil	ND	0.12	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Anthracene	SW8270E	Soil	0.74	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Benzene	SW8260D	Soil	ND	0.03	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Benzo(a)anthracene	SW8270E	Soil	2.1	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Benzo(a)pyrene	SW8270E	Soil	2.5	0.15	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Benzo(b)fluoranthene	SW8270E	Soil	2.8	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.2	0.15	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Chrysene	SW8270E	Soil	1.9	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Cumene	SW8260D	Soil	0.67	0.06	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Ethyl Benzene	SW8260D	Soil	0.014	0.06	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Fluorene	SW8270E	Soil	2.4	0.19	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Lead	SW6010D	Soil	49.3	4.27	4/24/2024	4/30/2024

Table 3 - 016A (GP R 227)
Sample/Analysis Information (Attachment for Section III.)

Location	Sample ID	Start Depth (ft)	End Depth (ft)	Parameter	Analytical Method	Media	Results (mg/kg)	Detection Limit (mg/kg)	Date Sample Taken	Date Sample Analyzed
GPR227-10	GPR227-10-SS01	2.5	3.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.12	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Naphthalene	SW8270E	Soil	0.72	0.037	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Phenanthrene	SW8270E	Soil	2.2	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Pyrene	SW8270E	Soil	2.1	0.11	4/24/2024	4/27/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Toluene	SW8260D	Soil	ND	0.06	4/24/2024	4/30/2024
GPR227-10	GPR227-10-SS01	2.5	3.0	Xylenes (total)	SW8260D	Soil	0.063	0.12	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	1,2,4-Trimethylbenzene	SW8260D	Soil	0.062	0.0021	4/24/2024	5/1/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	1,2-Dibromoethane	SW8260D	Soil	ND	0.00045	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	1,2-Dichloroethane	SW8260D	Soil	ND	0.0009	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	1,3,5-Trimethylbenzene	SW8260D	Soil	0.02	0.0021	4/24/2024	5/1/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Anthracene	SW8270E	Soil	2.2	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Benzene	SW8260D	Soil	0.0025	0.00045	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Benzo(a)anthracene	SW8270E	Soil	8.2	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Benzo(a)pyrene	SW8270E	Soil	7.7	0.3	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Benzo(b)fluoranthene	SW8270E	Soil	8.6	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Benzo(g,h,i)perylene	SW8270E	Soil	3.3	0.3	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Chrysene	SW8270E	Soil	8.1	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Cumene	SW8260D	Soil	0.027	0.001	4/24/2024	5/1/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Ethyl Benzene	SW8260D	Soil	0.011	0.001	4/24/2024	5/1/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Fluorene	SW8270E	Soil	1.2	0.37	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Lead	SW6010D	Soil	55.4	4.42	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Methyl tert-butyl ether	SW8260D	Soil	ND	0.0018	4/24/2024	4/30/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Naphthalene	SW8270E	Soil	4.3	0.075	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Phenanthrene	SW8270E	Soil	5.1	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Pyrene	SW8270E	Soil	10	0.22	4/24/2024	4/27/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Toluene	SW8260D	Soil	0.014	0.001	4/24/2024	5/1/2024
GPR227-11	GPR227-11-SS01	3.0	3.5	Xylenes (total)	SW8260D	Soil	0.053	0.0021	4/24/2024	5/1/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	1,2,4-Trimethylbenzene	SW8260D	Soil	0.053	0.13	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	1,2-Dibromoethane	SW8260D	Soil	ND	0.032	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	1,2-Dichloroethane	SW8260D	Soil	ND	0.064	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	1,3,5-Trimethylbenzene	SW8260D	Soil	0.027	0.13	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Anthracene	SW8270E	Soil	1.8	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Benzene	SW8260D	Soil	0.031	0.032	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Benzo(a)anthracene	SW8270E	Soil	4.1	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Benzo(a)pyrene	SW8270E	Soil	3.8	0.15	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Benzo(b)fluoranthene	SW8270E	Soil	5.2	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Benzo(g,h,i)perylene	SW8270E	Soil	1.5	0.15	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Chrysene	SW8270E	Soil	3.7	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Cumene	SW8260D	Soil	0.74	0.064	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Ethyl Benzene	SW8260D	Soil	0.012	0.064	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Fluorene	SW8270E	Soil	2.6	0.19	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Lead	SW6010D	Soil	30.2	4.52	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Methyl tert-butyl ether	SW8260D	Soil	ND	0.13	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Naphthalene	SW8270E	Soil	1.1	0.038	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Phenanthrene	SW8270E	Soil	6.6	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Pyrene	SW8270E	Soil	5.9	0.11	4/24/2024	4/27/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Toluene	SW8260D	Soil	ND	0.064	4/24/2024	4/30/2024
GPR227-12	GPR227-12-SS01	3.5	4.0	Xylenes (total)	SW8260D	Soil	0.092	0.13	4/24/2024	4/30/2024

Note:
SS -- Soil Sample.



Note: Aerial imagery source: NearMap September 19, 2023

0 40 80 120 Feet

1 inch = 40 feet

N

SAFETY FIRST

terraphase engineering

CLIENT:	Bellwether District Holdings, LLC
PROJECT:	Aboveground Storage Tank Closure
PROJECT NUMBER:	P044.001.002

Site Location and Sampling Map 016A (GP R 229)

Figure 3

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\AST Work\Tank Group 08\ForTankClosureReports\Figure 3 - 016A (GP R 229).mxd 6/21/2024 Created by: M.Civitillo Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Photograph 1:

View of Tank 016A (GP R 227) during demolition.

Photograph 2:

View of Tank 016A (GP R 227) during demolition.

Waste Disposal Documentation
(Tank 016A)

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22784

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: 102850 lbs

Tare Weight: 42900 lbs

Net Weight: 59950 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038319
Date: 08/30/2022 9:12 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181222.866
Loads: 11891

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	10.24 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	62880.00	42400.00	20480.00

4872

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTH STAR

Address PES

Truck No. 327 Cust. No. 22784

Gross

Weigh-In:
ID#: 327
09:27 am 08/30/22
62940 lb

Tare

Net

Weigh-Out:
ID#: 327
09:47 am 08/30/22
62940 lb Gross
40940 lb Tare
22000 lb Net

P+S

Haul - Fuel Charge: 42507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44405

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22784

Date: 08-30-22

Sold to: Allegheny **Scrap**

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: 102880 lbs

Tare Weight: 42400 lbs

Net Weight: 20480 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038319
Date: 08/30/2022 9:12 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181222.866
Loads: 11891

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	10.24 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	62880.00	42400.00	20480.00

NorthStar
Contracting Group, Inc.

5/26/03

PES Project Load Ticket

Load Ticket: 22787

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: ~~Steel~~ Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 56340 lbs

Tare Weight: 40700 lbs

Net Weight: 15640 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038322
Date: 08/30/2022 9:35 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181252.106
Loads: 11894

DT06-31 - ALLEGHENY TRUCK 06 W/ TRAILER 31
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.82 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	56340.00	40700.00	15640.00

2727
87

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTHSTAR

Address PES

Truck No. 06 Cust. No. 20787

Gross

Tare

Net

Weigh-In:
ID#: 06
10:38 am 08/30/22
56320 lb

Weigh-Out:
ID#: 06
10:52 am 08/30/22
56320 lb Gross
44380 lb Tare
11940 lb Net

TANK PLATE

Haul - Fuel Charge: 42507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44399

NorthStar Contracting Group, Inc.

5120103

PES Project Load Ticket

Load Ticket: 22787

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: ~~Yard~~ Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 563401bs

Tare Weight: 407001bs

Net Weight: 156401bs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


11:24:53 (S)

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038322
Date: 08/30/2022 9:35 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181252.106
Loads: 11894

DT06-31 - ALLEGHENY TRUCK 06 W/ TRAILER 31
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.82 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	56340.00	40700.00	15640.00

NorthStar
Contracting Group, Inc.

5/20/03

PES Project Load Ticket

Load Ticket: 22788

Date: 08-30-22

Sold to: Scrap Allegheny
Location: Tank 227
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____
Gross Weight: 59940 lbs
Tare Weight: 42520 lbs
Net Weight: 17440 lbs
NorthStar Rep. Signature: _____
Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038323
Date: 08/30/2022 10:04 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181260.826
Loads: 11895

DT23-403 - ALLEGHENY TRUCK 23 W/ TRAILER 403
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	59960.00	42520.00	17440.00

8727

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTH STAR

Address PES

Truck No. 23 Cust. No. 22788

Gross FRONT OFF

Weigh-In:
ID#: 23
10:27 am 08/30/22
49120 lb

Tare

Net

Weigh-Out:
ID#: 23
10:46 am 08/30/22
49120 lb Gross
31480 lb Tare
17640 lb Net

TANK PLATE

Haul - Fuel Charge: 42507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44397

NorthStar Contracting Group, Inc.

5 R0103

PES Project Load Ticket

Load Ticket: 22788

Date: 08-30-22

Sold to: Allegheny Scrap
Location: Tank 227
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:
Gross Weight: 59960 lbs
Tare Weight: 42520 lbs
Net Weight: 17440 lbs
NorthStar Rep. Signature:
Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:


11:15:17 (S)

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038323
Date: 08/30/2022 10:04 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181260.826
Loads: 11895

DT23-403 - ALLEGHENY TRUCK 23 W/ TRAILER 403
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.72 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	59960.00	42520.00	17440.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22789

Date: 08 30 22

Scrap

Sold to: Allegheny
Location: Tank 227
Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade________
- ☐ Other Alloy, Grade________
- ☐ Mixed
- ☐ Other: ________

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:________

Scale Ticket #:________
Gross Weight: 65620 lbs
Tare Weight: 41900 lbs
Net Weight: 23720 lbs
NorthStar Rep. Signature: [signature]
Received By: [signature]

Non-Haz / ACM / Special Waste

Activity Location:________

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:________

Carrier:________

Truck #:________

Container #:________

Manifest #:________

Profile / Approval #:________

Scale Info

Scale Ticket #:________

Gross Weight:________

Tare weight:________

Net weight:________

Net Kilogram Conversion (PCB Only):________

NorthStar Rep. Signature:________

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038324
Date: 08/30/2022 10:45 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181272.436
Loads: 11896

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

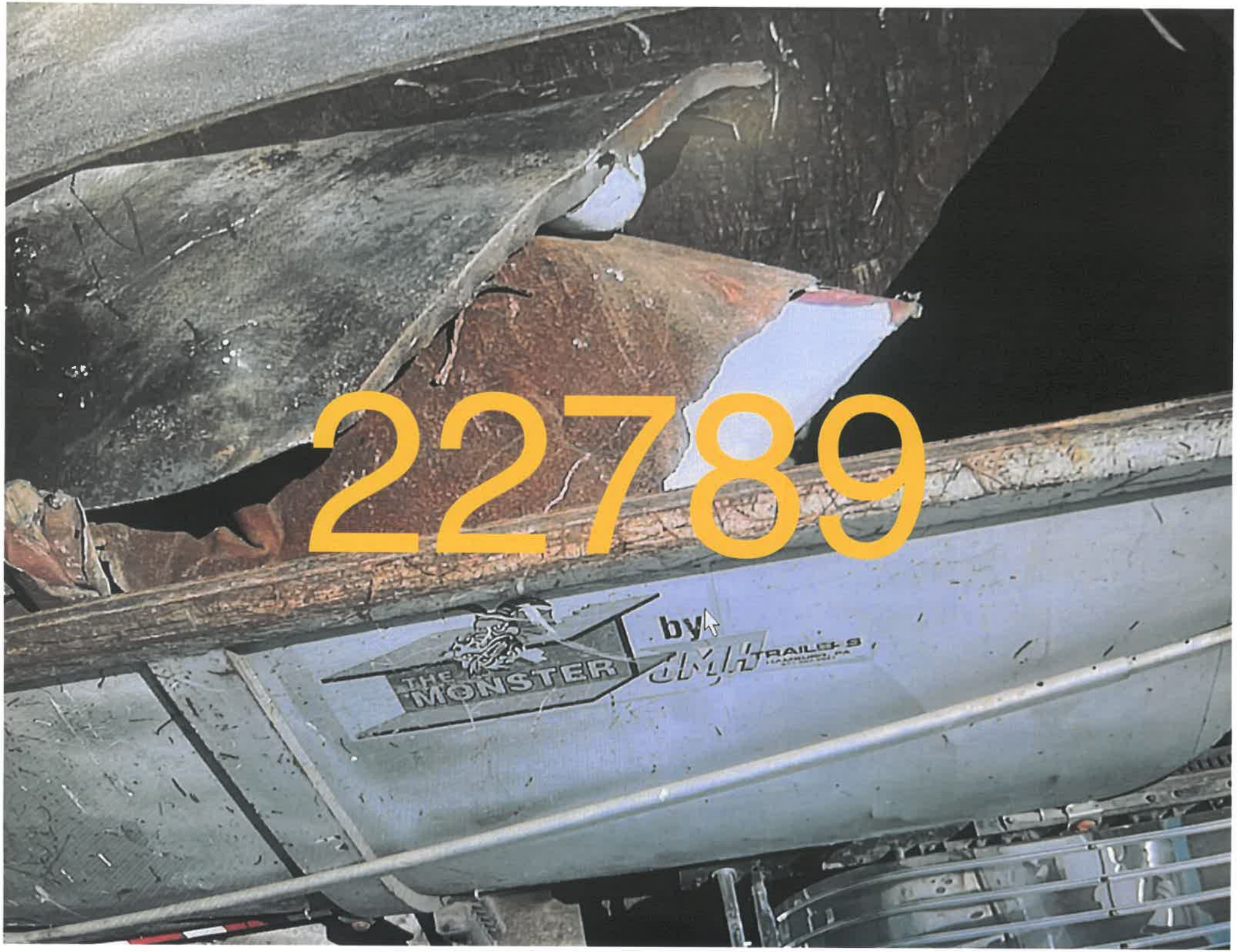
Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.61 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65620.00	42400.00	23220.00


22789
THE MONSTER
by

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTHSTAR

Address PES

Truck No. 327 Cust. No. 20789

Gross

Weigh-In:
ID#: 327
11:02 am 08/30/22
65700 lb

Tare

Net

Weigh-Out:
ID#: 327
11:20 am 08/30/22
65700 lb Gross
40880 lb Tare
24820 lb Net

TANK PLATE

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44400

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5/20/03

Load Ticket: 22789

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☑ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 65620 lbs

Tare Weight: 42400 lbs

Net Weight: 23220 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

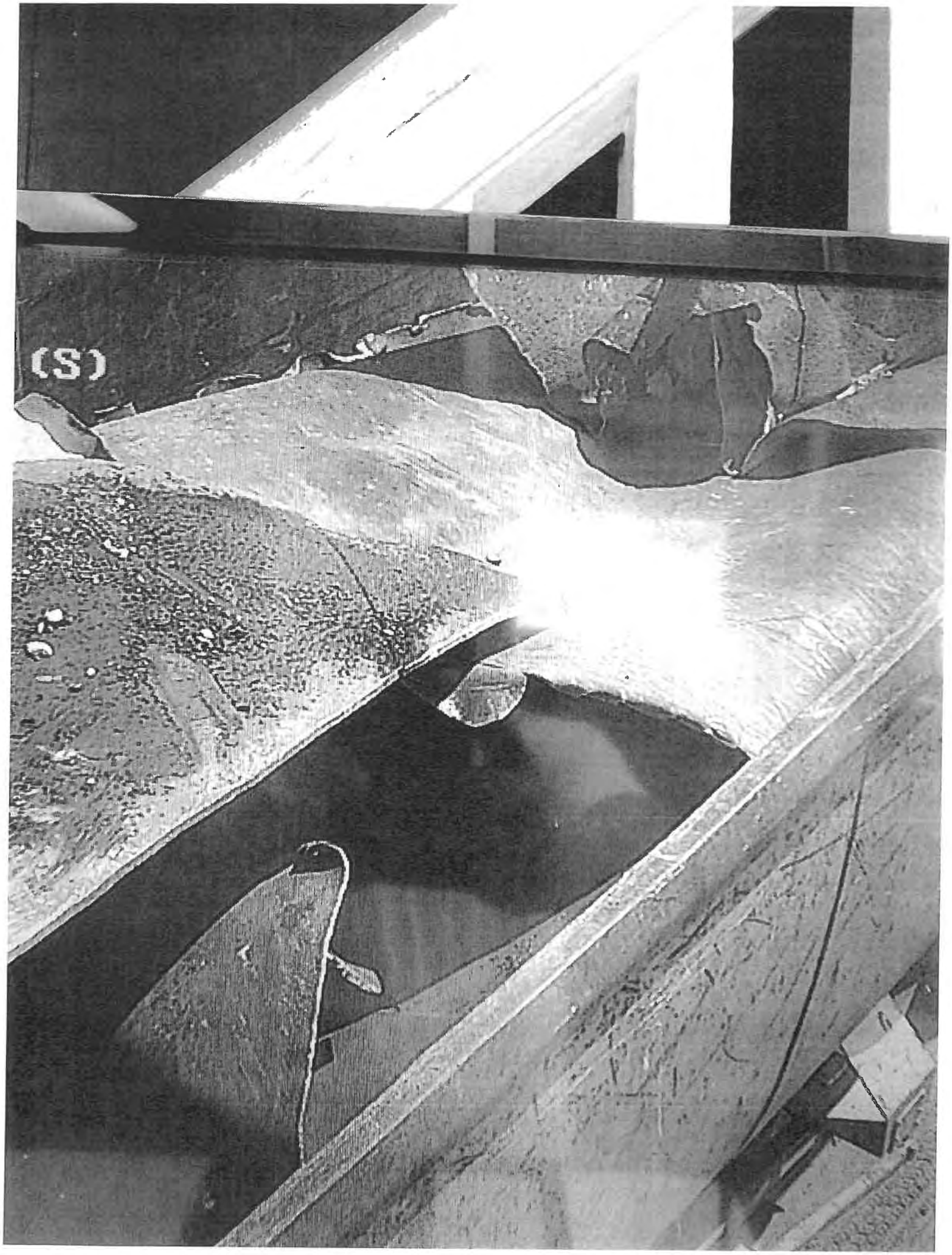
Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____


(S)

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038324
Date: 08/30/2022 10:45 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181272.436
Loads: 11896

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.61 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	65620.00	42400.00	23220.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22792

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade ____
- ☐ Other Alloy, Grade ____
- ☐ Mixed
- ☐ Other: ____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: ____

Scale Ticket #: ____

Gross Weight: 55940 lbs

Tare Weight: 39680 lbs

Net Weight: 16260 lbs

NorthStar Rep. Signature: [signature]

Received By: ____

Non-Haz / ACM / Special Waste

Activity Location: ____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: ____

Carrier: ____

Truck #: ____

Container #: ____

Manifest #: ____

Profile / Approval #: ____

Scale Info

Scale Ticket #: ____

Gross Weight: ____

Tare weight: ____

Net weight: ____

Net Kilogram Conversion (PCB Only): ____

NorthStar Rep. Signature: ____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038327
Date: 08/30/2022 11:12 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181293.506
Loads: 11899

DT07-56 - ALLEGHENY TRUCK 7 W/ TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.13 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	55940.00	39680.00	16260.00

2020/21

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTH STAR

Address PES

Truck No. 07 Cust. No. 22792

Gross

Tare

Net

Weigh-In:
ID#: 07
11:37 am 08/30/22
56100 lb

Weigh-Out:
ID#: 07
11:51 am 08/30/22
56100 lb Gross
38960 lb Tare
17140 lb Net

TANK PLATE

Haul - Fuel Charge: 2307

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44414

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5/20/03

Load Ticket: 22792

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 55940 lbs

Tare Weight: 39680 lbs

Net Weight: 16260 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

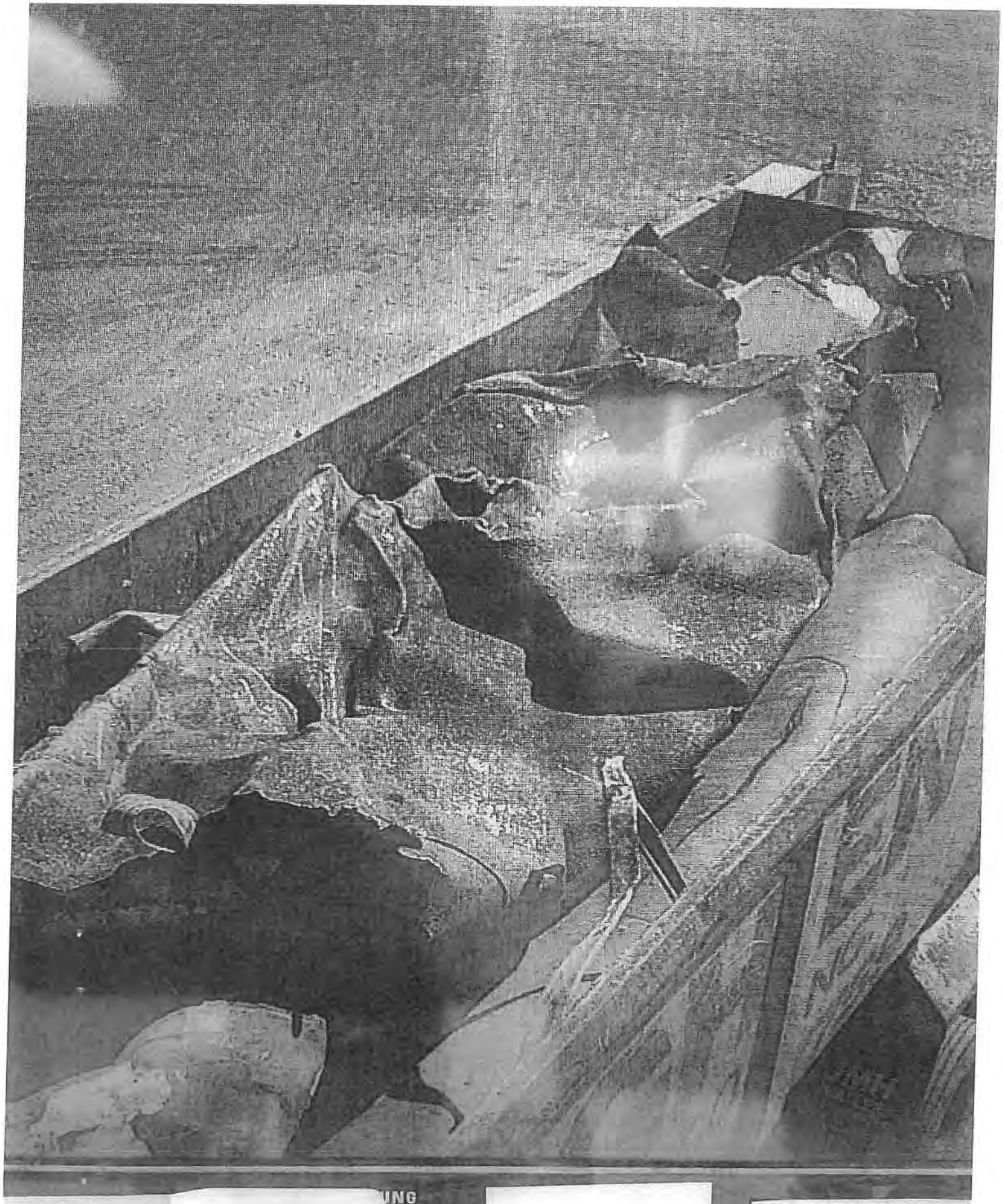
Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:



CAMDEN #1 CMC S/MS #1+ CAMDEN 5

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038327
Date: 08/30/2022 11:12 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181293.506
Loads: 11899

DT07-56 - ALLEGHENY TRUCK 7 W/ TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	8.13 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	55940.00	39680.00	16260.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22794

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 104140 lbs

Tare Weight: 42520 lbs

Net Weight: 21020 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038329
Date: 08/30/2022 11:46 AM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181314.656
Loads: 11901

DT23-403 - ALLEGHENY TRUCK 23 W/ TRAILER 403
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	10.81 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	64140.00	42520.00	21620.00


22794

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTH STAR

Address PES

Truck No. 23 Cust. No. 22794

Gross FRONT OFF

Weigh-In:
ID#: 23
12:10 PM 08/30/22
53160 lb

Tare

Net

Weigh-Out:
ID#: 23
12:24 PM 08/30/22
53160 lb Gross
31700 lb Tare
21460 lb Net

TANK PLATE

Haul - Fuel Charge: <250>

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44415

NorthStar Contracting Group, Inc.

PES Project Load Ticket

5120103

Load Ticket: 22794

Date: 08-26-22

Scrap

Sold to: Allegheny

Location: Allegheny Tank 221

Carrier: Allegheny

Steel / Ferrous

- [ ] No. 1 P+S
- [ ] No. 2 Heavy Melt
- [ ] Cast Iron
- [x] Mixed
- [ ] Pipe
- [ ] Light Iron
- [ ] Re-Bar
- [ ] Other Tank Plate

Non-Ferrous

- [ ] Insulated Copper Wire
- [ ] No. 1 Copper Wire
- [ ] Brass
- [ ] Aluminum
- [ ] Stainless, Grade
- [ ] Other Alloy, Grade
- [ ] Mixed
- [ ] Other:

Condition

- [ ] Prepared
- [ ] Unprepared
- [ ] Green Waste
- [ ] Concrete
- [ ] Masonry
- [ ] Mixed Masonry
- [x] Wood Only
- [ ] Demo Debris (C&D)
- [ ] Dirt / Fill
- [ ] Sand Fill
- [ ] Crushed Stone
- [ ] Other:

Scale Ticket #:

Gross Weight: 104140 lbs

Tare Weight: 42520 lbs

Net Weight: 61620 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- [ ] C&D Demolition Debris
- [ ] Non-Friable ACM
- [ ] Friable ACM
- [ ] PB WWTP Sludge
- [ ] GP WWTP Sludge
- [ ] Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- [ ] Process Haz Waste
- [ ] Demo Debris (C&D)
- [ ] Non-Haz Waste (Solid)
- [ ] Non-Haz Waste (Liquid)
- [ ] PCB (Non-TSCA)
- [ ] PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:


Wed 12:56:33 (s)

NorthStar
Contracting Group, Inc.

5126163

PES Project Load Ticket

Load Ticket: 22795

Date: 08.30.22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 129601bs

Tare Weight: 40700 lbs

Net Weight: 122601bs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038330
Date: 08/30/2022 12:05 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181325.786
Loads: 11902

DT06-31 - ALLEGHENY TRUCK 06 W/ TRAILER 31
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.13 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	62960.00	40700.00	22260.00


22795

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTHSTAR

Address PES

Truck No. 06 Cust. No. 22795

Gross

Tare

Net

Weigh-In:
ID#: 06
12:39 PM 08/30/22
63520 lb

Weigh-Out:
ID#: 06
01:03 PM 08/30/22
63520 lb Gross
44600 lb Tare
18920 lb Net

TANK PLATE

Haul - Fuel Charge: <2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44423

NorthStar Contracting Group, Inc.

5120103

PES Project Load Ticket

Load Ticket: 22795

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 129601bs

Tare Weight: 40700lbs

Net Weight: 222601bs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

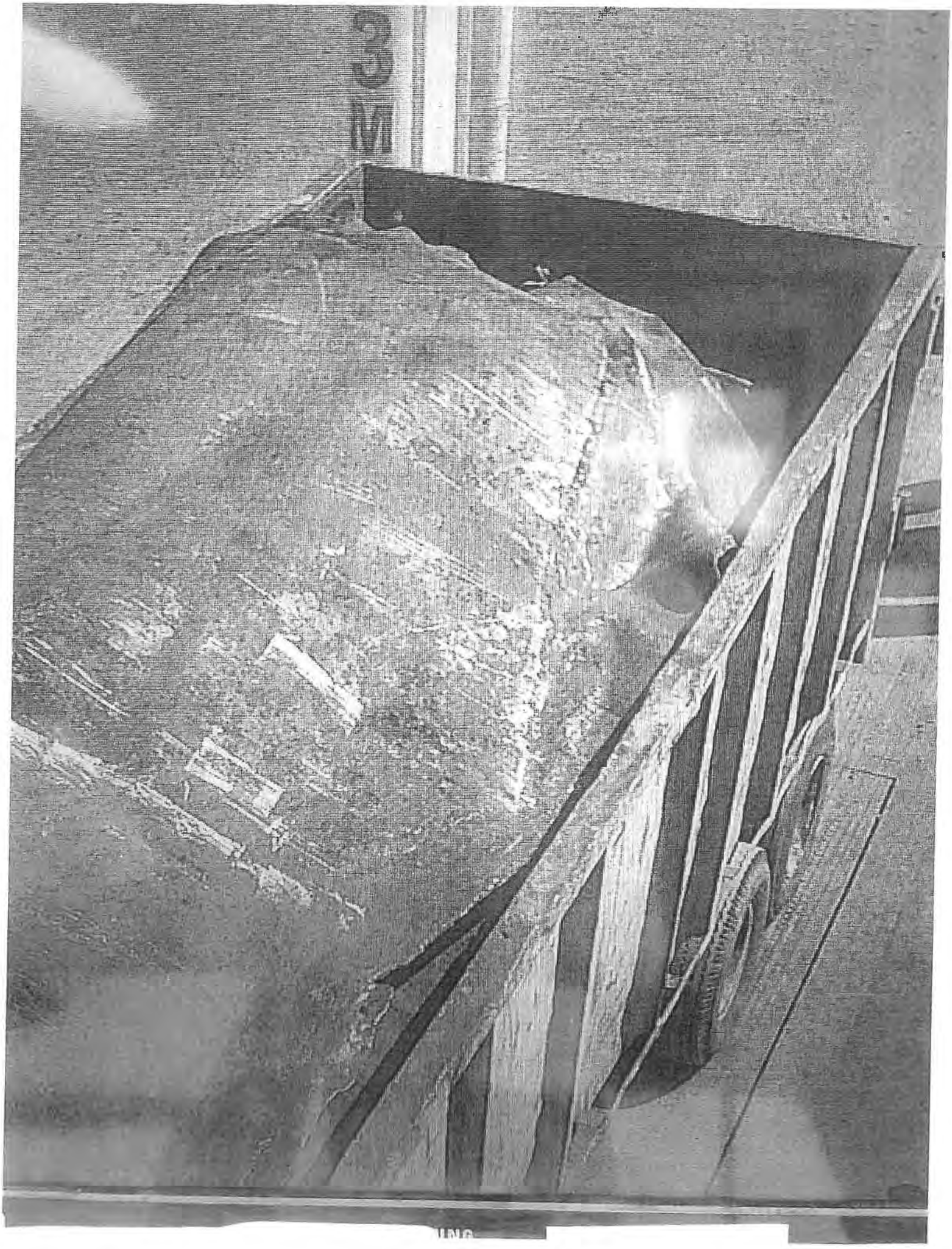
Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____



HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038330
Date: 08/30/2022 12:05 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

,

Order Number: 001
SCRAP REMOVAL
Tons: 181325.786
Loads: 11902

DT06-31 - ALLEGHENY TRUCK 06 W/ TRAILER 31
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	11.13 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	62960.00	40700.00	22260.00

NorthStar Contracting Group, Inc.

5/20/03

PES Project Load Ticket

Load Ticket: 22797

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 57500 lbs

Tare Weight: 42400 lbs

Net Weight: 15100 lbs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038332
Date: 08/30/2022 12:27 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181339.476
Loads: 11904

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.55 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57500.00	42400.00	15100.00

1972

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTH STAR

Address PES

Truck No. 327 Cust. No. 22797

Gross

Tare

Net

Weigh-In:
ID#: 327
12:55 PM 08/30/22
57340 lb

Weigh-Out:
ID#: 327
01:11 PM 08/30/22
57340 lb Gross
40920 lb Tare
16420 lb Net

TM-K
PLATE

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44426

NorthStar
Contracting Group, Inc.

5/20/03

PES Project Load Ticket

Load Ticket: 22797

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #: _____

Gross Weight: 57500 lbs

Tare Weight: 42400 lbs

Net Weight: 15100 lbs

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: _____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: _____

Truck #: _____

Container #: _____

Manifest #: _____

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: _____

Tare weight: _____

Net weight: _____

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038332
Date: 08/30/2022 12:27 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181339.476
Loads: 11904

DT327-1109 - ALLEGHENY TRUCK 327-1109
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	7.55 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	57500.00	42400.00	15100.00

NorthStar Contracting Group, Inc.

5120103

PES Project Load Ticket

Load Ticket: 22798

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade_____
- ☐ Other Alloy, Grade_____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:_____

Scale Ticket #:_____

Gross Weight: 534401bs

Tare Weight: 396801bs

Net Weight: 137601bs

NorthStar Rep. Signature:_____

Received By:_____

Non-Haz / ACM / Special Waste

Activity Location:_____

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:_____

Carrier:_____

Truck #:_____

Container #:_____

Manifest #:_____

Profile / Approval #:_____

Scale Info

Scale Ticket #:_____

Gross Weight:_____

Tare weight:_____

Net weight:_____

Net Kilogram Conversion (PCB Only):_____

NorthStar Rep. Signature:_____

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038333
Date: 08/30/2022 12:42 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181346.356
Loads: 11905

DT07-56 - ALLEGHENY TRUCK 7 W/ TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	6.88 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	53440.00	39680.00	13760.00

8672

Main & Yard
2200 E. Adams Ave
Philadelphia, PA 19124
(215) 743-7759

Affiliate Location
214 Conestoga St.
Lancaster, PA 17603
(717) 394-4424

ALLEGHENY IRON AND METAL CO., INC.

DEALERS IN

IRON & STEEL SCRAP

Date 8/30/22

Name NORTHSTAR

Address PE3

Truck No. 07 Cust. No. 22798

Gross

Tare

Net

Weigh-In:
ID#: 07
12:59 PM 08/30/22
53360 lb

Weigh-Out:
ID#: 07
01:17 PM 08/30/22
53360 lb Gross
39000 lb Tare
14360 lb Net

TANK PLATE

Haul - Fuel Charge: 2507

NOTICE: NO REFRIGERATORS, AIR CONDITIONERS, TOXIC CHEMICALS ASBESTOS, BATTERIES, TRANSFORMERS OR HAZARDOUS DRUMS ACCEPTED

Received by

K 44428

NorthStar Contracting Group, Inc.

5120103

PES Project Load Ticket

Load Ticket: 22798

Date: 08-30-22

Scrap

Sold to: Allegheny

Location: Tank 227

Carrier: Allegheny

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other Tank Plate

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 53440 lbs

Tare Weight: 39680 lbs

Net Weight: 13760 lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location:

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility:

Carrier:

Truck #:

Container #:

Manifest #:

Profile / Approval #:

Scale Info

Scale Ticket #:

Gross Weight:

Tare weight:

Net weight:

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:

HILCO REDEVELOPEMENT PARTNERS
3144 W. PASSYUNK AVE

PHILADELPHIA PA, 19145

Ticket #: 20038333
Date: 08/30/2022 12:42 PM
Phone: ( ) -
Fax: ( ) -

Customer: HILCO
HILCO

Order Number: 001
SCRAP REMOVAL
Tons: 181346.356
Loads: 11905

DT07-56 - ALLEGHENY TRUCK 7 W/ TRAILER 56
CARLAD - CARLA DAVILA

Remarks: SCRAP REMOVAL

Signature: _____

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
SCRAP	6.88 tn						

Weight Information

Material	Gross	Tare	Net
SCRAP	53440.00	39680.00	13760.00

		Weight						
Container #	Origin of Waste	Gross	Tare	*Net*	*Facility Net*	Rail Car #	Railcar Position	*Over/Under*
5335	Tank 227	65,800	28,300	**18.75**	**18.69**	91496	A	**-5.3**
5234	Tank 227	62,750	28,100	**17.33**	**16.48**	91496	B	**-6.7**
5361	Tank 227	63,650	28,150	**17.75**	**17.16**	91496	C	**-6.3**
5370	Tank 227	64,350	28,050	**18.15**	**17.93**	91496	D	**-5.9**
5203	Tank 227	64,300	28,100	**18.10**	**17.66**	91496	E	**-5.9**
5208	Tank 227	62,150	28,150	**17.00**	**16.33**	91496	F	**-7.0**
5289	Tank 227	67,200	28,100	**19.55**	19.31	91121	A	**-4.5**
5003	Tank 227	68,950	28,100	**20.43**	20.01	91121	B	**-3.6**
5146	Tank 227	68,800	28,100	**20.35**	20.17	91121	C	**-3.7**
5374	Tank 227	65,450	28,150	**18.65**	18.12	91121	D	**-5.4**
5339	Tank 227	63,700	28,050	**17.83**	20.73	91121	E	**-6.2**
5109	Tank 227	61,050	28,100	**16.48**	15.81	91121	F	**-7.5**
5215	Tank 227	68,550	28,100	**20.23**	20.10	91434	A	**-3.8**
5273	Tank 227	64,850	28,150	**18.35**	18.25	91434	B	**-5.7**
5150	Tank 227	72,500	28,150	**22.18**	22.14	91434	C	**-1.8**
5082	Tank 227	74,200	28,250	**22.98**	23.13	91434	D	**-1.0**
5400	Tank 227	70,500	28,150	**21.18**	21.16	91434	E	**-2.8**
5269	Tank 227	71,350	28,100	**21.63**	21.35	91434	F	**-2.4**
				346.88	**344.53**			**-85**
		Running Total (tons)		**17,692.39**	**17,693.49**			

		Weight						
Container #	Origin of Waste	Gross	Tare	*Net*	*Facility Net*	Rail Car #	Railcar Position	*Over/Under*
4379	Tank 227	76,300	28,400	**23.95**	24.10	91150	A	**-0.1**
4200	Tank 227	76,400	28,600	**23.90**	23.25	91150	B	**-0.1**
4147	Tank 227	72,200	28,500	**21.85**	21.66	91150	C	**-2.2**
4292	Tank 227	72,400	28,700	**21.85**	21.96	91150	D	**-2.2**
4250	Tank 227	76,200	28,400	**23.90**	24.35	91150	E	**-0.1**
4413	Tank 227	71,900	28,550	**21.68**	21.04	91150	F	**-2.3**
5191	Tank 227	74,850	28,200	**23.33**	23.29	91060	A	**-0.7**
5292	Tank 227	72,100	28,100	**22.00**	21.43	91060	B	**-2.0**
5317	Tank 227	73,600	28,200	**22.70**	22.46	91060	C	**-1.3**
5077	Tank 227	62,200	28,150	**17.03**	16.51	91060	D	**-7.0**
5133	Tank 227	70,900	28,150	**21.38**	20.58	91060	E	**-2.6**
5068	Tank 227	75,200	28,150	**23.53**	22.93	91060	F	**-0.5**
5038	Tank 227	75,300	28,350	**23.48**	22.50	91058	A	**-0.5**
5225	Tank 227	73,700	28,250	**22.73**	21.81	91058	B	**-1.3**
5293	Tank 227	76,550	28,450	**24.05**	23.14	91058	C	**0.1**
5075	Tank 227	75,800	28,500	**23.65**	22.92	91058	D	**-0.4**
5073	Tank 227	73,400	28,150	**22.63**	21.65	91058	E	**-1.4**
5359	Tank 227	76,450	28,350	**24.05**	23.17	91058	F	**0.1**
5144	Tank 227	76,500	28,900	**23.80**	23.76	91436	A	**-0.2**
5369	Tank 227	76,150	28,100	**24.03**	23.25	91436	B	**0.0**
5155	Tank 227	73,600	28,150	**22.73**	21.79	91436	C	**-1.3**
5052	Tank 227	76,000	28,150	**23.93**	23.29	91436	D	**-0.1**
5334	Tank 227	76,150	28,400	**23.88**	23.30	91436	E	**-0.1**
5371	Tank 227	76,550	28,350	**24.10**	23.93	91436	F	**0.1**
				550.10	**538.07**			**-26**
		Running Total (tons)		**18,242.49**	**18,231.56**			

		Weight						
Container #	Origin of Waste	Gross	Tare	*Net*	*Facility Net*	Rail Car #	Railcar Position	*Over/Under*
5348	Tank 227	74,650	28,100	**23.28**	**21.73**	91063	A	**-0.7**
5345	Tank 227	75,750	28,150	**23.80**	**23.78**	91063	B	**-0.2**
5395	Tank 227	76,400	28,300	**24.05**	**24.16**	91063	C	**0.1**
5360	Tank 227	76,400	28,350	**24.03**	**24.03**	91063	D	**0.0**
5211	Tank 227	75,600	28,300	**23.65**	**23.53**	91063	E	**-0.4**
5384	Tank 227	76,600	28,400	**24.10**	**23.14**	91063	F	**0.1**
5232	Tank 227	76,650	28,450	**24.10**	24.72	91484	A	**0.1**
5272	Tank 227	75,900	28,150	**23.88**	23.69	91484	B	**-0.1**
5206	Tank 227	76,450	28,400	**24.03**	24.45	91484	C	**0.0**
5292	Tank 227	74,600	28,250	**23.18**	22.89	91484	D	**-0.8**
5121	Tank 227	74,700	28,050	**23.33**	23.34	91484	E	**-0.7**
5180	Tank 227	76,100	28,150	**23.98**	24.08	91484	F	**0.0**
5266	Tank 227	76,250	28,250	**24.00**	23.95	91475	A	**0.0**
5207	Tank 227	76,250	28,150	**24.05**	23.95	91475	B	**0.1**
5283	Tank 227	77,450	28,250	**24.60**	25.02	91475	C	**0.6**
5383	Tank 227	76,500	28,450	**24.03**	26.17	91475	D	**0.0**
5111	Tank 227	74,200	28,150	**23.03**	23.04	91475	E	**-1.0**
5064	Tank 227	76,050	28,350	**23.85**	23.75	91475	F	**-0.1**
4356	Tank 227	76,850	28,450	**24.20**	23.98	91497	A	**0.2**
4521	Tank 227	73,400	28,600	**22.40**	22.29	91497	B	**-1.6**
4416	Tank 227	72,250	28,450	**21.90**	21.66	91497	C	**-2.1**
4277	Tank 227	76,200	28,500	**23.85**	24.02	91497	D	**-0.1**
4319	Tank 227	76,950	28,450	**24.25**	24.07	91497	E	**0.3**
4421	Tank 227	72,250	28,450	**21.90**	25.25	91497	F	**-2.1**
				567.43	**570.69**			**-9**
		Running Total (tons)		**18,809.92**	**18,802.25**			

165304 091434-6A 168979

Bill of Lading (Page 1 of 2)

DOCUMENT # 91434-6A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 69895

SHIPPER'S INSTRUCTIONS

40,460

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	20.23	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225215			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jarrod Dark on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc — Certification of receipt of materials

Per: Belinda Spicer Date: 9/13/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91434-6A

TO ——————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B Miller	Date: 9-13-22

71260
31000
40200

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 168970

WEIGHED BY _____

0091434-6B 768992

1625004

Bill of Lading (Page 1 of 2)

DOCUMENT # 91434-6B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 69896	

36,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	18.35	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225273			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Janet on behalf Dave of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/13/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91434-6B

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: Barry B Miller	Date: 9-13-22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

105812 091434-6C 7689944

Bill of Lading (Page 1 of 2)

DOCUMENT # 91434-6C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 69867	

44,360

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	22.18	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225150			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sarah Lombardo on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/13/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91434-6C

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Hector Rivera	Date: 9/13/22	

79640
35360
44280

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 168994

WEIGHED BY _____

1053314

0091434-6D

Bill of Lading (Page 1 of 2)

769002

DOCUMENT # 91434-6D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a) 1241

Ticket 69898

SHIPPER'S INSTRUCTIONS

46,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	23.0	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225082			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sarah, on behalf Dow of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Chamberlain Date: 9-14-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91434-6D

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: [signature]	Date: 9-14-22

TICKET 8
TICKET 8
ID 653374
GROSS 80480 lb INBOUND
08:48AM 09/14/2022

GROSS 80480 lb RECALLED
TARE 34220 lb
NET 46260 lb

NET 23.13 TON

10:[illegible]AM 09/14/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

80480
34220
46260

RECEIVING TICKET # [illegible]

WEIGHED BY ______________________

00114344-6E

163163

768928

Bill of Lading (Page 1 of 2)

DOCUMENT # 91434-6E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/1241	
Ticket 69899	

42,360

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	21.18	BT
		PROFILE: 989843LA			
		IM CONTAINER# EPIU225400			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sarah, on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1)(ii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Thibodeaux	Date: 9-14-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91434-6E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date;	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry B. Miller	Date: 9-14-22	

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

05212 0091434-6F 168980

Bill of Lading (Page 1 of 2)

DOCUMENT # 91434-6F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 69900	

43,260

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	21.63	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225269			
		RAIL CAR# EPIX91434			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/13/22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91434-6F

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. LA0000147272 (800) 336-2169 Acknowledgement of Receipt	
Per: Hector Rivera	Date: 9/13/22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76950

WEIGHED BY _____

106153 0091047-5A 16859

Bill of Lading (Page 1 of 2)

DOCUMENT # 91047-5A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 16859	

34,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	17.03	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225398			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NM	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sent on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Quinodoz	Date: 9-8-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91047-5A

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B M, II	Date: 9-9-12

66980
35080
31900

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1063153 0091047-5B

Bill of Lading (Page 1 of 2)

768265

DOCUMENT # 91047-5B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 69880	

35,360

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZAROOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	17.68	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225299			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jack on behalf Doe at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dumbodlay	Date: 9-12-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91047-5B

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry BM.Ila	Date: 9-12-22	

70140
35160
34980

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

653374 7768966 0091047-5C

Bill of Lading (Page 1 of 2)

DOCUMENT # 91047-5C

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241
Ticket 69881

SHIPPER'S INSTRUCTIONS

35,900

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	17.95	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225192			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature] at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: [signature] Date: 9-12-22

Belinda Spicer 9/12/22

7689666

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91047-5C

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: [signature]	Date: 9-12-22	

49840
34200
35040

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 105966

WEIGHED BY _____

653118 00910A7-5D 768967

Bill of Lading (Page 1 of 2)

DOCUMENT # 91047-5D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 69882	

34,460

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, 9, III (BENZENE)	CM	17.23	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225168			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: [signature] Carrie Ambozleay	Date: 9-12-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91047-5D

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: [signature]	Date: 9 | 12 | 22	

08500
35400
33100

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 106107

WEIGHED BY _____

0091047-5E 768974

6533114

Bill of Lading (Page 1 of 2)

DOCUMENT # 91047-5E

TO	
Consignee: CHEMICAL WASTE MANAGEMENT INC	
Street: 7170 JOHN BRANNON ROAD	
EPA ID: LAD000777201	
City/State/Zip: SULPHUR LA 70665	
Phone: (337) 583-2169	

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4(a) 12(i)

Ticket 69883

SHIPPER'S INSTRUCTIONS

27,560

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	13.78	8T
		PROFILE: 989843LA			
		IM CONTAINER# EPIU225166			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Janet Don on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubordeaux	Date: 9-12-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91047-5E

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: [signature]	Date: 9-12-22

01730
34080
37040

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76877

WEIGHED BY _____

653204 0091047-5F 208959

Bill of Lading (Page 1 of 2)

DOCUMENT # 91047-5F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a) 1241	
Ticket 69884	

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume (29,000)	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9, III (BENZENE)	CM	14.5	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225214			
		RAIL CAR# EPIX91047			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature] at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Chaudoleau	Date: 9-7-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91047-5F

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/9/22

35100
35160
28540

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1053153 0091496-1A 76929 ✓

Bill of Lading (Page 1 of 2)

DOCUMENT# 91496-1A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 62188	

37,500

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	18.75	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225335			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On behalf of PC Carrie Kwiatkowski	Date: 8/17/22 ~~07/18/2022~~	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Kwiatkowski	Date: 9-5-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91486-1A

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip. SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry B. Miller	Date: 9-8-22	

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1653904 0091496-1B 768931

Bill of Lading (Page 1 of 2)

DOCUMENT # 91496-1B

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241
Ticket 62789

SHIPPER'S INSTRUCTIONS

34,640

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	17.32	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225234			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jack on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubodeau	Date: 9-8-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91498-1B

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-8-22

608000
360440
329160

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 20373

WEIGHED BY _____

1053153 0091496-1C 1068945

Bill of Lading (Page 1 of 2)

DOCUMENT# 91496-1C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 62790	

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume 35,500	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	17.75	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225361			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sent on behalf Dan of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dubodeau Date: 9-9-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91498-1C

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LAD000147272 (800) 336-2169
Per: Dan BM.A	Date: 9-9-22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1653204 0091496-1D 7689446

Bill of Lading (Page 1 of 2)

DOCUMENT # 91496-1D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 12791	

36,300

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	18.15	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225370			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sent to Ticket Door at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dubodeaux Date: 9-9-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91498-1D

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgment of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-9-22

70900 G
35040 T
35860 N

17.93 T

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1053504 0091496-1E 68949 0091496-1E

Bill of Lading (Page 1 of 2)

DOCUMENT # 91496-1E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip. PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a(1241	
Ticket 602792	

36,200

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	18.10	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225203			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Dom at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc.	Certification of receipt of materials
Per: Carrie Chamberlain	Date: 9-9-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91496-1E

TO.....FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID. LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Joseph Gonzalez	Date: 9/9/2022

EPI112922202

[illegible]

60740
31420
35320

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 761949

WEIGHED BY ______________________

653112 0091496-1F 768930

Bill of Lading (Page 1 of 2)

DOCUMENT # 91496-1F

TO	
Consignee: CHEMICAL WASTE MANAGEMENT INC	
Street: 7170 JOHN BRANNON ROAD	
EPA ID: LAD000777201	
City/State/Zip: SULPHUR LA 70665	
Phone: (337) 583-2169	

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 60795

SHIPPER'S INSTRUCTIONS

34,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S 9.III (BENZENE)	CM	17	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225208			
		RAIL CAR# EPIX91496			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jack on behalf Dean at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Thibodeaux	Date: 9-8-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91496-1F

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: [signature]	Date: 9/8/22	

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

0091121-1A
768870

053804

Bill of Lading (Page 1 of 2)

DOCUMENT # 91121-1A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a) 1241	
Ticket 069888	

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9 III (BENZENE)	CM	19.55 (39,100)	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225289			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature] on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/7/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91121-1A

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per:	Date: 9-7-22	

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

091121-18 168872

163504

Bill of Lading (Page 1 of 2)

DOCUMENT # 91121-18

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4(a) 1241	
Ticket 168872	

40,860

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	20.43	6T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225003			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jason on behalf of Dean at PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shippers certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Rolunda Price	Date: 9/7/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91121-1B

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry B. Miller	Date: 9-7-22	

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

053204 0091121-1C 7 of 908

Bill of Lading (Page 1 of 2)

DOCUMENT # 91121-1C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 69890	

40,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	20.35	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225146			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Dan on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Lambodeaux	Date: 9-8-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91121-1C

TO ——————————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-8-22

16140
35400
40340

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 160808

WEIGHED BY _____

0091121-1D

653153

Bill of Lading (Page 1 of 2)

768906

DOCUMENT # 91121-1D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 69891	

37,300

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	18.65	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225374			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Jacob, on behalf Dominic of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Thibodeaux	Date: 9-8-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91121-1D

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: Dan B Miller	Date 9. 8. 22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

0091121-1E

1063112

760907

Bill of Lading (Page 1 of 2)

DOCUMENT # 91121-1E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 69892	

35,660

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID, N.O.S. 9.III (BENZENE)	CM	17.83	GT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225339			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Sarah ... on behalf of PES	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per:	Date: 9/8/22

Carrie Thibodeaux 9-8-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91121-1E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 226-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	9/8/22
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per:	Date:	9/8/22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

091121-1F

Bill of Lading (Page 1 of 2)

DOCUMENT # 91121-1F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Title 69793	

52,960

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	26.46	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225109			
		RAIL CAR# EPIX91121			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. The property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 08/17/2022	Per: Luis Castro	Date: 8/18/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dardeaux 9-7-22	Date: 9-7-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91121-1F

TO ——————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. LA0000147272 (800) 336-2169 Acknowledgement of Receipt	
Per:	Date: 9-7-22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

6/4/20
3250
3/6/20

RECEIVING TICKET # _____

WEIGHED BY _____

0091436-6A

163153

769079

Bill of Lading (Page 1 of 2)

DOCUMENT# 91436-6A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70053	

48,100

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.05 ~~17~~	ST
		PROFILE: 989843LA			
		IM CONTAINER# EPIU225144			
		RAIL CAR# EPIX91436			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc — Certification of receipt of materials

Per: Carrie Dubodeay — Date: 9-19-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-BA

TO

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company		
Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc.	LA0000147272	(800) 336-2169
Acknowledgement of Receipt		
Per: B. M. Ila	Date: 9-19-22	

EPIC 202140

TICKET ID
TICKET ID
ID [illegible]
GROSS 82820 lb [illegible]
[illegible] 09/19/2022

GROSS 82820 lb RECALLED
TARE 35300 lb
NET 47520 lb

NET 23.76 ton

[illegible] 09/19/2022

OVERWEIGHT

82820
35300
47520

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 209079

WEIGHED BY ______________________

1053204 0091436-6B 769091

Bill of Lading (Page 1 of 2)

DOCUMENT # 91436-6B

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241
Ticket 70054

SHIPPER'S INSTRUCTIONS

48,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	24.03 17	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225369			
		RAIL CAR# EPIX91436			
		ERG# 171 H039			
				NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Cambodian	Date: 9-19-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-6B

TO — FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per:	Date: 9-19-22	

EPIU2253G7

TICKET 37
TICKET 37
ID 653204
GROSS 81700 lb INBOUND
12:37PM 09/19/2022

GROSS 81700 lb RECALLED
TARE 35200 lb
NET 46500 lb

NET 23.25 TON

02:48PM 09/19/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

81700
35200
46500

76791

RECEIVING TICKET # _____

WEIGHED BY _____

105804 0091436-6C 769081

Bill of Lading (Page 1 of 2)

DOCUMENT # 91436-6C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1624

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Tidd 70056	

45,460

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9. III (BENZENE)	CM	22.73 ~~17~~	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225155			
		RAIL CAR# EPIX91436			
		ERG# 171 H039		NA	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Rawhody	Date: 9-19-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-6C

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-19-22

(P114225))

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

78980 G
35400 T
43580 N

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 769081

WEIGHED BY ____________________

0091436-60

053153

Bill of Lading (Page 1 of 2)

709092

DOCUMENT # 91436-6D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049781 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/el 1241	
Tilden 70059	

47,860

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	23.93 ~~17~~	BT
		PROFILE: 869843LA			
		IM CONTAINER# EPIU225052			
		RAIL CAR# EPIX91436			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 8/23/20	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: [signature]	Date: 9-19-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-6D

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAO 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1624

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B. Miller	Date: 9-19-22

EPAUO>>052

TICKET 38
TICKET 38
ID 653153
GROSS 81000 lb INBOUND
12:42PM 09/19/2022

GROSS 81000 lb RECALLED
TARE 35320 lb
NET 45680 lb

NET 22.84 TON

02:30PM 09/19/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

81000
35320
45680

RECEIVING TICKET # 16792

WEIGHED BY _____

U533/5

00914361-6E

769090

Bill of Lading (Page 1 of 2)

DOCUMENT # 91436-6E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a| 1241	
Ticket 70058	

48,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	~~17~~ 24.03	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225334			
		RAIL CAR# EPIX91436			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination, If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on B/ls of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dubordeaux Date: 9-19-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-6E

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/19/22

TICKET 31
TICKET 31
ID 653375
GROSS 80800 lb INBOUND
12:13PM 09/19/2022

GROSS 80800 lb RECALLED
TARE 34200 lb
NET 46600 lb

NET 23.30 TON

02:11PM 09/19/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

80800
34200
46600

RECEIVING TICKET # _____

WEIGHED BY _____

0091436-6F 769075

0533516

Bill of Lading (Page 1 of 2)

DOCUMENT # 91436-6F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70059

SHIPPER'S INSTRUCTIONS

48,200

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	24.10 TR	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225371			
		RAIL CAR# EPIX91436			
		ERG# 171 H039		NP	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per:	Date: 8-18-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91436-6F

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2189

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 088
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/16/22

TICKET 6
TICKET 6

ID 653375
GROSS 82320 lb INBOUND
07:19AM 09/19/2022

GROSS 82320 lb RECALLED
TARE 34460 lb
NET 47860 lb

NET 23.93 TON

08:50AM 09/19/2022

OVERWEIGHT

82320
34460
47860

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

165304

091060-BA

Bill of Lading (Page 1 of 2)

769036

DOCUMENT # 91060-BA

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 70029	

46,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.33	ST
		PROFILE: 869843LA			
		IM CONTAINER# EPIU225191			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		NA	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if applicable to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/15/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91060-8A

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 048701 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9.15.22

TICKET 63
TICKET 63
ID 653204
GROSS 81720 lb RECALLED
12:54PM 09/15/2022

GROSS 81720 lb RECALLED
TARE 35140 lb
NET 46580 lb

NET 23.29 tons

12:54PM 09/15/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

81720
35140
46580

RECEIVING TICKET # 1/69036

WEIGHED BY _____

1068163 0091060-6B 769071

Bill of Lading (Page 1 of 2)

DOCUMENT # 91060-6B

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241
Ticket 70090

SHIPPER'S INSTRUCTIONS

44,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	22.00 TN	8T
		PROFILE: 989843LA			
		IM CONTAINER# EPIU225292			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubodeau	Date: 9-16-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91080-BB

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049781 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B. Miller	Date: 9.16.22

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

Bill of Lading (Page 1 of 2)

DOCUMENT # 91060-6C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Tribal 70031	

45,400

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	22.70 N	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225317			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		AOH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if applicable to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: BelindaSpicer	Date: 9/16/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91080-BC

TO ---------- FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049781 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/16/22

EP14233
317

TICKET 20
TICKET 20
ID [illegible]
GROSS 79700 lb INBOUND
08:56AM 09/16/2022

GROSS 79700 lb [illegible]
TARE 34780 lb
NET 44920 lb

[illegible]

[illegible] 09/16/2022

79700
34780
44920

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # [illegible]

WEIGHED BY ____________________

106353

0091060-60

Bill of Lading (Page 1 of 2)

769060

DOCUMENT # 91060-6D

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241
Ticket 70032

SHIPPER'S INSTRUCTIONS

34,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	17.03	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225077			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry /o its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 9/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 8, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Quibodeaux	Date: 9-16-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91080-6D

TO — FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B. Miller	Date: 9.16.22

[illegible]

[illegible]
ID [illegible]
GROSS: 69060 lb [illegible]
[illegible]

[illegible] 69060 lb [illegible]
TARE 36040 lb
NET 33020 lb

[illegible]

[illegible]

69060
36040
33020

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # ______________

WEIGHED BY ______________

091060-6E -769070

105812

Bill of Lading (Page 1 of 2)

DOCUMENT # 91060-6E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70033	

42,600

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	27.38 N	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225133			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/16/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91060-6E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 226-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Hector Rivera	Date: 9/16/22	

[illegible]

76340
35180
41160

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # [illegible]

WEIGHED BY ______________________

091060-6F 7169058

053812

Bill of Lading (Page 1 of 2)

DOCUMENT # 91060-6F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/el 1241	
Ticket 70034	

47,060

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.53 TR	ST
		PROFILE: 869843LA			
		IM CONTAINER# EPIU225088 5068			
		RAIL CAR# EPIX91060			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC			Carrier: CSX Railroad Corp		
Per:	[signature]	Date: 8/23/22	Per: Luis Castro		Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials		
Per: Belinda Spicer		Date:	9/16/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91080-6F

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Hector Rivera	Date: 9/16/17

EPA

TICKET 15
TICKET 15
ID 653112
GROSS 81860 lb INBOUND
08:25AM 09/16/2022

GROSS 81860 lb RECALLED
TARE 36000 lb
NET 45860 lb

NET 22.93 TON

10:24AM 09/16/2022

OVERWEIGHT

81860
36000
45860

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 0769058

WEIGHED BY _____

009150-5A

1058804

760004

Bill of Lading (Page 1 of 2)

DOCUMENT # 91150-5A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 088
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70021

SHIPPER'S INSTRUCTIONS

47,900

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	23.95	ST
		PROFILE: 989843LA			
		IM CONTAINER# EPIU224379			
		RAIL CAR# EPIX91150			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/22/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dembodecy Date: 9-14-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91150-5A

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-14-22

TICKET 9

ID 653204
GROSS 83720 lb INBOUND
08:49AM 09/14/2022

GROSS 83720 lb RECALLED
TARE 35520 lb
NET 48200 lb

NET 24.10 TON

10:42AM 09/14/2022

OVERWEIGHT

83720
35520
48200

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # ______________________

WEIGHED BY ______________________

091150-5B 169034

165153

Bill of Lading (Page 1 of 2)

DOCUMENT # 91150-5B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Tidd 70023	

47,800

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.90 N	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224200			
		RAIL CAR# EPIX91150			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/15/22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91150-6B

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2189

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 040791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1624

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B. Miller	Date: 9·15·22

LPMU224Cu

TICKET 68

ID 653153.
GROSS 82220 lb INBOUND
12:25PM 09/15/2022

GROSS 82220 lb RECALLED
TARE 35720 lb
NET 46500 lb

NET 23.25 TON

01:44PM 09/15/2022

OVERWEIGHT

82220
35720
46500

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 1681034

WEIGHED BY ______

1623514

091150-5C

Bill of Lading (Page 1 of 2)

769012

DOCUMENT # 91150-5C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70685	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/at 1241

Ticket 70024

SHIPPER'S INSTRUCTIONS

43,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	21.85 TK	ST
		PROFILE: 869843LA			
		IM CONTAINER# EPIU224147			
		RAIL CAR# EPIX91150			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if applicable to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc — Certification of receipt of materials

Per: Carrie Dombodian — Date: 9-14-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91150-5C

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: [signature]	Date: 9-14-22	

77160
34440
43320

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76702

WEIGHED BY _____

091150-5D

1053204

7/29/14

Bill of Lading (Page 1 of 2)

DOCUMENT # 91150-5D

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241
Ticket 7025

SHIPPER'S INSTRUCTIONS

43,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	21.85 TX	6T
		PROFILE: 988843LA			
		IM CONTAINER# EPIU224292			
		RAIL CAR# EPIX91150			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Chubodeaux	Date: 9-14-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91150-5D

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 099
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9.19.24

EP1455942[illegible]

[illegible]

[illegible]

GROSS 79540 lb [illegible]
TARE 35620 lb
NET 43920 lb

[illegible]

[illegible]

79540
35620
43920

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 16014

WEIGHED BY ____________________

1563514 091150-5E 709032

Bill of Lading (Page 1 of 2)

DOCUMENT # 91150-5E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049781 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 70026	

47,800

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	23.90 ~~47~~	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224250			
		RAIL CAR# EPIX81150			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Cruthodeaux	Date: 9-15-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91150-6E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Bell Lartigue ON	Date: 9-15-22

E 111 24250

TICKET 65

ID 653374
GROSS 82800 lb INBOUND
12:36PM 09/15/2022

GROSS 82800 lb RECALLED
TARE 34100 lb
NET 48700 lb

NET 24.35 TON

02:07PM 09/15/2022

OVERWEIGHT

82800
34100
48700

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 70702

WEIGHED BY _____

053153

091150-5F

Bill of Lading (Page 1 of 2)

769009

DOCUMENT # 91150-5F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 046781 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Tidus 70027

SHIPPER'S INSTRUCTIONS

43,360

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	21.68 TR	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224413			
		RAIL CAR# EPIX91150			
		ERG# 171 H039		NA	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 9/27/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubsdan	Date: 9-14-22

Bill of Lading (Continuation Sheet) 2 of 2

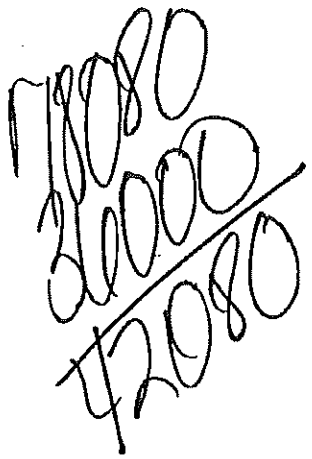
DOCUMENT# 81160-5F

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B. Miller	Date: 9-14-22



CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

CC91058-4H

769746

0533714

Bill of Lading (Page 1 of 2)

DOCUMENT # 91058-4A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70666	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a! 1241	
Ticket 90039	

46,960

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	23.48 ~~17~~	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225038			
		RAIL CAR# EPIX91058			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC — on behalf of PES		Carrier: CSX Railroad Corp	
Per: [signature]	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1)(iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc   Certification of receipt of materials

Per: Belinda Spicer   Date: 11/4/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 81058-4A

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2168

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date.
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Kevin Lartigue Jr	Date: 11-4-22

19340
34340
45000

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 105716

WEIGHED BY _____

091058-4B

1053145

Bill of Lading (Page 1 of 2)

769758

DOCUMENT # 91058-4B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241

Ticket 70039

SHIPPER'S INSTRUCTIONS

45,460

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	22.73 TN	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225225			
		RAIL CAR# EPIX91058			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of		Carrier: CSX Railroad Corp	
Per: Carrie Dubordeaux	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" (as appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubordeaux	Date: 11-7-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91058-4B

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per:	Date X 11-7-22	

78740
35120
43620

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 106758

WEIGHED BY _____

0091058-4C

053374

Bill of Lading (Page 1 of 2)

76925

DOCUMENT # 91058-4C

TO

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a) 12)I

Ticket 70040

SHIPPER'S INSTRUCTIONS

48,100

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.05 ~~17~~	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225293			
		RAIL CAR# EPIX91058			
		ERG# 171 H039			
				NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC	Carrier: CSX Railroad Corp
Per: On behalf of PES Carrie Dubhody Date: 8/23/22	Per: Luis Castro Date: 8/24/22

Mark with "X" or "RQ" appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1)(iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubhody	Date: 11-7-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91058-4C

TO — FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 088
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Beau Lafleur TR	Date: 11-7-22

EPA005193

TICKET 77
TICKET 77
ID 653374
GROSS 80700 lb INBOUND
01:53PM 11/07/2022

GROSS 80700 lb RECALLED
TARE 34420 lb
NET 46280 lb

NET 23.14 TON

02:54PM 11/07/2022

OVERWEIGHT

80700
34420
46280

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76757

WEIGHED BY _____

091058-4D

058145

Bill of Lading (Page 1 of 2)

769752

DOCUMENT # 91058-4D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 096
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70041

SHIPPER'S INSTRUCTIONS

47,300

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.II (BENZENE)	CM	23.65 N	BT
		PROFILE: 969643LA			
		IM CONTAINER# EPIU225075			
		RAIL CAR# EPIX91058			
		ERG# 171 H039		ASR	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: on behalf of PES	Date:	Per: Luis Castro	Date: 8/24/22
Carrie Rembodeaux	8/23/22		

Mark with "X" or "RQ" if applicable to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Rembodeaux	Date: 11-7-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91058-4D

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: X 11-7-22

EP1UJ22S(7S

TICKET 58
TICKET 58
ID 653145
GROSS 81120 lb INBOUND
09:25AM 11/07/2022

GROSS 81120 lb RECALLED
TARE 35280 lb
NET 45840 lb

NET 22.92 TON

11:56AM 11/07/2022

OVERWEIGHT

81120
35280
45840

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 766752

WEIGHED BY

0091058-4E

0552614 7169768

Bill of Lading (Page 1 of 2)

DOCUMENT # 91058-4E

TO	
Consignee: CHEMICAL WASTE MANAGEMENT INC	
Street: 7170 JOHN BRANNON ROAD	
EPA ID: LAD000777201	
City/State/Zip: SULPHUR LA 70665	
Phone: (337) 583-2169	

FROM	
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC	
Street: 3144 PASSYUNKAVE	
EPA ID: PAD 049791 098	
City/State/Zip: PHILADELPHIA, PA 19145	
Phone: (440) 228-1524	

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70042

SHIPPER'S INSTRUCTIONS

45,260

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9,III (BENZENE)	CM	~~17~~ 22.63	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225073			
		RAIL CAR# EPIX91058			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On Behalf Of [signature] PES	Date: 8/23/22	Per: Luis Castro	Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1)(ii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 11/08/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91058-4E

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Beau Landgraf Jr	Date: 11-8-22

11140
34000
12300

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 116510

WEIGHED BY _____

091058-4F

209750

Bill of Lading (Page 1 of 2)

DOCUMENT # 91058-4F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 088
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/ai 1241 Ticket 70043	

48,100

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. 9, III (BENZENE)	CM	24.05 T	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225359			
		RAIL CAR# EPIX91058			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of	Carrier: CSX Railroad Corp
Per: Carrie Chrobodian Date: 8/23/22	Per: Luis Castro Date: 8/24/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Chrobodian	Date: 11-7-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91068-4F

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3. Chemical Waste Management, Inc Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per Kevin Lartigue JR	Date: 11-7-22

EPI1225 57

TICKET 57
TICKET 57

ID 653374
GROSS 80400 lb INBOUND
09:22AM 11/07/2022

GROSS 80400 lb RECALLED
TARE 34060 lb
NET 46340 lb

NET 23.17 TON

10:50AM 11/07/2022

OVERWEIGHT

80400
34060
46340

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

76725

RECEIVING TICKET # _____

WEIGHED BY _____

769190

Bill of Lading (Page 1 of 2)

DOCUMENT # 91063-5A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/at 1241 Ticket 75399	

46,560

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. 9, III (BENZENE)	CM	23.28	BT
		PROF LE: 969843LA			
		IM CONTAINER# EPIU225348			
		RAIL CAR# EPIX91063			
				NH	
		ERG# 171 H039			

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per.	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 8, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Janet Doan	Date: 9-26-22

769190

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91063-5A

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNK AVE
EPA ID: PAD 049781 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Janet Dean	Date 9-26-22

18540
65080
43460

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 20119

WEIGHED BY _____

0091063-5B

053112

769213

Bill of Lading (Page 1 of 2)

DOCUMENT # 91063-5B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70400	

47,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S. 9.III (BENZENE)	CM	23.80	ST
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225345			
		RAIL CAR# EPIX91063			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: [signature] PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Thibodeaux	Date: 9-27-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91083-5B

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049781 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt	
Per: Heather Rideout	Date: 9/27/22

EPA005345

TICKET 15
TICKET 15
ID 653168
GROSS 81480 lb INBOUND
08:49AM 09/27/2022

GROSS 81480 lb RECALLED
TARE 33920 lb
NET 47560 lb

NET 23.78 TON

09:55AM 09/27/2022

OVERWEIGHT

81480
33920
47560

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 767213

WEIGHED BY _____

0091063-5C

105153

Bill of Lading (Page 1 of 2)

709210

DOCUMENT # 91063-5C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049781 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 70401	

48,100

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.05	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225395			
		RAIL CAR# EPIX91063			
		ERG# 171 • H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	on behalf of PES Carrie Dunbodeau Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials/Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 49 Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dunbodeau	Date: 9-27-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91063-5C

TO — FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 088
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Brian B M. II	Date: 9.27.22

LP1122535

TICKET 13
TICKET 12

ID 653153
GROSS 83180 lb INBOUND
08:20AM 09/27/2022

GROSS 83180 lb RECALLED
TARE 34860 lb
NET 48320 lb

NET 24.16 TON

09:22AM 09/27/2022

OVERWEIGHT

83180
34860
48320

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 69210

WEIGHED BY _____

091063-5D-769212

053204

Bill of Lading (Page 1 of 2)

DOCUMENT # 91063-5D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 70402	

48,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	24.03	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225360			
		RAIL CAR# EPIX91063			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of		Carrier: CSX Railroad Corp	
Per: Carrie Dubordeau	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (5) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dubordeau	Date: 9-27-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91063-5D

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/27/22

CP14 2205200

TICKET 26

ID 053204
GROSS 84980 lb INBOUND
08:02AM 09/27/2022

OVERWEIGHT

Bill Manifested Wt

84180

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 709212

WEIGHED BY ______________________

091063-5E

168158

760225

Bill of Lading (Page 1 of 2)

DOCUMENT # 91063-5E

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241
Tidal 70403

SHIPPER'S INSTRUCTIONS

47,300

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.65	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225211			
		RAIL CAR# EPIX91063			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Dan on behalf of PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dunbodeay	Date: 9-27-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91063-5E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry B Miller	Date: 9-27-22	

EF1022524

TICKET 43
TICKET 43
ID 653153
GROSS 82000 lb INBOUND
11:50AM 09/27/2022

GROSS 82000 lb RECALLED
TARE 34940 lb
NET 47060 lb

NET 23.53 TON

02:00PM 09/27/2022

OVERWEIGHT

82000
34940
47060

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76723

WEIGHED BY _____

769191

Bill of Lading (Page 1 of 2)

DOCUMENT # 91063-5F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 70404	

48,200

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.10	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225384			
		RAIL CAR# EPIX91063			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per:	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Jonah Doan	Date: 9-26-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91063-5F

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: Sandra Dean	Date: 9-26-22

EPA-22534

TICKET 66

ID 653204
GROSS 81380 lb INBOUND
10:58AM 09/26/2022

GROSS 81380 lb RECALLED
TARE 35100 lb
NET 46280 lb

NET 23.14 TON

12:53PM 07/26/2022

OVERWEIGHT

81380
35100
46280

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

0091484-6A

U53168

Bill of Lading (Page 1 of 2)

269227

DOCUMENT # 91484-6A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70405	

48,200

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9,III (BENZENE)	CM	24.10	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225232			
		RAIL CAR# EPIX91484			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of PES		Carrier: CSX Railroad Corp	
Per: Carrie Dumbodey	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 49. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dumbody Date: 9-27-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91484-6A

TO ——————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2168

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Hector Rivera	Date: 9/27/17

EPM022352-

TICKET 49

TICKET 49
ID 653168
GROSS 83540 lb INBOUND
12:58PM 09/27/2022

GROSS 83540 lb RECALLED
TARE 34100 lb
NET 49440 lb

NET 24.72 TON

02:19PM 09/27/2022

OVERWEIGHT

83540
34100
49440

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 769227

WEIGHED BY ______________________

053169 0091484-6B 769267

Bill of Lading (Page 1 of 2)

DOCUMENT # 91484-6B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/at 1241

Ticket 769267

SHIPPER'S INSTRUCTIONS

47,760

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	23.88	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225272			
		RAIL CAR# EPIX91484			
				NH	
		ERG# 171 H039			

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Carrie Dembodeaux on behalf of PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dembodeaux Date: 9-29-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91484-BB

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: J-RGd	Date: 9-29-22

EPA 02

TICKET 20
TICKET 20
ID 653169
GROSS 82620 lb INBOUND
09:11AM 09/29/2022

GROSS 82620 lb RECALLED
TARE 35240 lb
NET 47380 lb

NET 23.69 TON

11:06AM 09/29/2022

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

82620
35240
47380

RECEIVING TICKET # 76907

WEIGHED BY _____

153804 091484-6C

Bill of Lading (Page 1 of 2)

709264

DOCUMENT # 91484-6C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70407

SHIPPER'S INSTRUCTIONS

48,000

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.03	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225206			
		RAIL CAR# EPIX91484			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC On behalf of		Carrier: CSX Railroad Corp	
Per: Carrie Dombodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading. 172.201 (a)(1) (ii) of Title 4 9. Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dombodeaux	Date: 9-29-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91484-6C

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-29-22

EXPL

TICKET 16
TICKET 16
ID 653204
GROSS 84020 lb INBOUND
09:45AM 09/29/2022

GROSS 84020 lb RECALLED
TARE 35120 lb
NET 48900 lb

NET 24.45 TON

10:19AM 09/29/2022

OVERWEIGHT

84020
35120
48900

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 653264

WEIGHED BY _____

V5858 091484-6D 769263

Bill of Lading (Page 1 of 2)

DOCUMENT # 91484-6D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70408	

46,360

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.18	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU2252916			
		RAIL CAR# EPIX91484			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of		Carrier: CSX Railroad Corp	
Per: Carrie Dunbody PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dunbody	Date: 9-29-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91484-6D

TO ——— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Ray B Miller	Date: 9-29-22

EHW225216

TICKET 15
TICKET 15
ID 453153
GROSS 81740 lb INBOUND
08:40AM 09/29/2022

GROSS 81740 lb RECALLED
TARE 35960 lb
NET 45780 lb

NET 22.89 TON

09:56AM 09/29/2022

OVERWEIGHT

81740
35960
45780

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

C726S

RECEIVING TICKET # _____

WEIGHED BY _____

068168 00914846E 769266

Bill of Lading (Page 1 of 2)

DOCUMENT # 91484-6E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Tridet 70409	

46,660

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	23.33	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225121			
		RAIL CAR# EPIX91484			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: on Behalf of PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/29/22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91484-6E

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. LA0000147272 (800) 336-2169 Acknowledgement of Receipt	
Per: Hector Rivera	Date: 9/29/22

TICKET 19
TICKET 19
ID 653163
GROSS 81180 lb INBOUND
09:09AM 09/29/2022

GROSS 81180 lb RECALLED
TARE 34500 lb
NET 46680 lb

NET 23.34 TON

11:03AM 09/29/2022

OVERWEIGHT

81180
34500
46680

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1553204 0091484-6F 769230

Bill of Lading (Page 1 of 2)

DOCUMENT # 91484-6F

TO	
Consignee: CHEMICAL WASTE MANAGEMENT INC	
Street: 7170 JOHN BRANNON ROAD	
EPA ID: LAD000777201	
City/State/Zip: SULPHUR LA 70665	
Phone. (337) 583-2169	

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70410

SHIPPER'S INSTRUCTIONS

47,960

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ,UN3077,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9,III (BENZENE)	CM	23.98	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225180			
		RAIL CAR# EPIX91484			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC — on behalf of PES		Carrier: CSX Railroad Corp	
Per: Carrie Quibodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Quibodeaux	Date: 9-22-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91484-6F

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9/27/22

EPA1122510

TICKET 51
TICKET 51
ID
GROSS 83240 lb INBOUND
01:14PM 09/27/2022

GROSS 83240 lb RECALLED
TARE 35080 lb
NET 48160 lb

NET 24.08 TON

02:26PM 09/27/2022

OVERWEIGHT

83240
35080
48160

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # 76230

WEIGHED BY _____

105863 0091475-4A 169275

Bill of Lading (Page 1 of 2)

DOCUMENT # 91475-4A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241 Ticket 72415	

48,000

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, 9, III (BENZENE)	CM	24.00	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225266			
		RAIL CAR# EPIX91475			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Per PES on Behalf of Belinda Spicer	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Belinda Spicer	Date: 9/29/22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91475-4A

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Barry B. Miller	Date: 9-29-22	

OVERWEIGHT

83460
35560
47900

23.95

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

0091475-4B

105153

Bill of Lading (Page 1 of 2)

769284

DOCUMENT # 91475-4B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFIMTION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket 70416	

48,100

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	24.05	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225207			
		RAIL CAR# EPIX91475			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On behalf of Carrie Dunbodeaux PES	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9 Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Dunbodeaux	Date: 9-30-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91475-4B

TO ——————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Becca B. Miller	Date: 9-30-22

OVERWEIGHT

83260
35340
47920
23,96

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

053108

0091475-4C

769251

Bill of Lading (Page 1 of 2)

DOCUMENT # 91475-4C

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPERS INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241 Ticket No#17	

49,200

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.6	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225283			
		RAIL CAR# EPIX91475			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: on behalf of PES Carrie Quibodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management Inc — Certification of receipt of materials

Per: Carrie Quibodeaux Date: 9-29-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91475-4C

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. LA0000147272 (800) 336-2169 Acknowledgement of Receipt	
Per: [signature]	Date: 9/29/22

OVERWEIGHT

84580
34540
50040

25.02

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1053169 0091475-40 769280

Bill of Lading (Page 1 of 2)

DOCUMENT # 91475-4D

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70418	

48,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.03	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225383			
		RAIL CAR# EPIX91475			
				NH	
		ERG# 171 H039			

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bills of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On Behalf of Carrie Quibodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Quibodeaux Date: 9-29-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91475-4D

TO.....FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: J-Rzl	Date: 9-29-22

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

81000
34000
53340

2.6.17

RECEIVING TICKET # _____

WEIGHED BY _____

Bill of Lading (Page 1 of 2)

DOCUMENT # 91475-4E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street. 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241	
Ticket 70419	

46,000

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. 9, III (BENZENE)	CM	23.03	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225111			
		RAIL CAR# EPIX91475			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC			Carrier: CSX Railroad Corp		
Per:		Date: 8/29/22	Per: Luis Castro	Date: 8/30/22	

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9 Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per:	Date: 8-30-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91475-4E

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 9-30-22

OVERWEIGHT

81500
35420
46080

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

1053204 091475-4F 769276

Bill of Lading (Page 1 of 2)

DOCUMENT # 91475-4F

TO
Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241
Ticket 70420

SHIPPER'S INSTRUCTIONS

47,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ,UN3077,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9,III (BENZENE)	CM	23.85	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU225084			
		RAIL CAR# EPIX91475			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry *to* its usual place of delivery as said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On behalf of Carrie Rumbaugh	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Rumbaugh	Date: 9-29-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91475-4F

TO --FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: [signature]	Date: 9-29-22	

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

82260
82260
47500

RECEIVING TICKET # _____

WEIGHED BY _____

165353 0091497-2A

Bill of Lading (Page 1 of 2)

76930

DOCUMENT # 91497-2A

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 088
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70424	

48,400

HAZARDOUS MATERIAL	NO SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.2	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224356			
		RAIL CAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On Behalf of Carrie Dembodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 4 9, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dembodeaux Date: 9-30-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91497-2A

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: Barry B Miller	Date: 9-30-22

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

83440
35480
47960

23.98

RECEIVING TICKET # _____

WEIGHED BY _____

0053204 0091497-2B 769325

Bill of Lading (Page 1 of 2)

DOCUMENT # 91497-2B

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION	SHIPPER'S INSTRUCTIONS
VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241	
Ticket 70425	

44,800

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	22.4	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224521			
		RAIL CAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC on behalf of		Carrier: CSX Railroad Corp	
Per: PES Carrie Quinboleaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc	Certification of receipt of materials
Per: Carrie Quinboleaux	Date: 10-3-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91497-2B

TO ..... FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per:	Date: 10-3-22

OVERWEIGHT

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

80020
25440
54680

2229

RECEIVING TICKET # _____

WEIGHED BY _____

0091497-2C 769316

1053108

Bill of Lading (Page 1 of 2)

DOCUMENT # 91497-2C

TO

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

FROM

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone. (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a) 1241

Ticket 70426

SHIPPER'S INSTRUCTIONS

43,800

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	21.9	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224416			
		RAILCAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC On behalf of	Carrier: CSX Railroad Corp
Per: Carrie Chauvin... Date: 8/29/22	Per: Luis Castro Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Chauvin... Date: 10-3-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91497-2C

TO.....FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per: Helder Rivera	Date: 10/3/22	

77920
34600
43320

21.66

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

0091497-2D

053314

Bill of Lading (Page 1 of 2)

769317

DOCUMENT # 91497-2D

TO	
Consignee: CHEMICAL WASTE MANAGEMENT INC	
Street: 7170 JOHN BRANNON ROAD	
EPA ID: LAD000777201	
City/State/Zip: SULPHUR LA 70665	
Phone: (337) 583-2169	

FROM
Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Ticket 70427

SHIPPER'S INSTRUCTIONS

47,700

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9.III (BENZENE)	CM	23.85	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224277			
		RAIL CAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to Us usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC On behalf of		Carrier: CSX Railroad Corp	
Per: Carrie Thibodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (ii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc — Certification of receipt of materials

Per: Carrie Thibodeaux Date: 10-3-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91497-2D

TO FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272 (800) 336-2169
Per: [illegible]	Date: 10-3-22

OVERWEIGHT

83430
54380
48040

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

105118 091497-2E 709328

Bill of Lading (Page 1 of 2)

DOCUMENT # 91497-2E

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/al 1241

Tribal 70428

SHIPPER'S INSTRUCTIONS

48,500

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III (BENZENE)	CM	24.25	BT
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224319			
		RAIL CAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: On behalf of PES Carrie Dunbodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9. Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dunbodeaux Date: 10-3-22

Bill of Lading {Continuation Sheet) 2 of 2

DOCUMENT# 91497-2E

TO ——————————————— FROM

Consignee: CHEMICAL WASTE MANAGEMENT INC
Street: 7170 JOHN BRANNON ROAD
EPA ID: LAD000777201
City/State/Zip: SULPHUR LA 70665
Phone: (337) 583-2169

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 3144 PASSYUNKAVE
EPA ID: PAD 049791 098
City/State/Zip: PHILADELPHIA, PA 19145
Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt	
Per:	Date:
Carrier 3: Chemical Waste Management, Inc.	LA0000147272 (800) 336-2169
Acknowledgement of Receipt Per: H. Rivera	Date: 10/3/22

OVERWEIGHT

82520
84380
48140

24.07

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

052304 091497-2F

Bill of Lading (Page 1 of 2)

76930

DOCUMENT # 91497-2F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

ADDITIONAL INFORMATION

VRE TANK BOTTOMS EXCLUDED FROM THE DEFINITION OF SOLID WASTE UNDER 40CFR 261.4/a/ 1241

Ticket 70429

SHIPPER'S INSTRUCTIONS

48,500

HAZARDOUS MATERIAL	NO. SHIPPING UNITS	DESCRIPTION OF ARTICLES SPECIAL MARKS & EXCEPTIONS	Type	Volume	UOM
X	1	RQ, UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. 9, III (BENZENE)	CM	24.28	8T
		PROFILE: 969843LA			
		IM CONTAINER# EPIU224421			
		RAIL CAR# EPIX91497			
		ERG# 171 H039		NH	

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked consigned and destined as indicated above which said carrier (the word carrier being understood through this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions.

Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC		Carrier: CSX Railroad Corp	
Per: Carrie Dumbodeaux	Date: 8/29/22	Per: Luis Castro	Date: 8/30/22

Mark with "X" or "RQ" if appropriate to designate Hazardous Materials Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading 172.201(a)(1) (iii) of Title 4 9, Code of Federal Regulations, Also, when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

Designated Consignee: Chemical Waste Management, Inc Certification of receipt of materials

Per: Carrie Dumbodeaux Date: 10-3-22

Bill of Lading (Continuation Sheet) 2 of 2

DOCUMENT# 91497-2F

TO	FROM
Consignee: CHEMICAL WASTE MANAGEMENT INC	Shipper: PHILADELPHIA ENERGY SOLUTIONS R&M LLC
Street: 7170 JOHN BRANNON ROAD	Street: 3144 PASSYUNKAVE
EPA ID: LAD000777201	EPA ID: PAD 049791 098
City/State/Zip: SULPHUR LA 70665	City/State/Zip: PHILADELPHIA, PA 19145
Phone: (337) 583-2169	Phone: (440) 228-1524

Carrier 2: BNSF Railway Company Acknowledgement of Receipt		
Per:	Date:	
Carrier 3: Chemical Waste Management, Inc. Acknowledgement of Receipt	LA0000147272	(800) 336-2169
Per:	Date: 10-3-22	

OVERWEIGHT

80040
35540
45500

CHEMICAL WASTE MANAGEMENT, INC.
7170 JOHN BRANNON ROAD
SULPHUR, LA 70665

RECEIVING TICKET # _____

WEIGHED BY _____

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2421961
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	04/29/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2421961-01	GPR217-04-SS01	SOIL	PHILADELPHIA, PA	04/22/24 08:35	04/22/24
L2421961-02	GPR217-05-SS01	SOIL	PHILADELPHIA, PA	04/22/24 08:55	04/22/24
L2421961-03	GPR217-07-SS01	SOIL	PHILADELPHIA, PA	04/22/24 09:05	04/22/24
L2421961-04	GPR219-01-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:35	04/22/24
L2421961-05	GPR219-02-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:50	04/22/24
L2421961-06	GPR219-03-SS01	SOIL	PHILADELPHIA, PA	04/22/24 12:10	04/22/24
L2421961-07	GPR219-04-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:00	04/22/24
L2421961-08	GPR219-05-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:15	04/22/24
L2421961-09	GPR219-06-SS01	SOIL	PHILADELPHIA, PA	04/22/24 12:30	04/22/24
L2421961-10	GPR219-07-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:20	04/22/24
L2421961-11	GPR219-08-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:45	04/22/24
L2421961-12	GPR219-09-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:05	04/22/24
L2421961-13	FB-240422	WATER	PHILADELPHIA, PA	04/22/24 10:00	04/22/24
L2421961-14	TB-240422	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/22/24

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2421961-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries for the following samples are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with an obvious interference. Copies of the chromatograms are included as an attachment to this report:

L2421961-01D: 136%

L2421961-02: 2271%

L2421961-06: 314%

L2421961-08: 1470%

L2421961-12: 189%

L2421961-03: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (167%) and 4-bromofluorobenzene (767%); 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.

L2421961-11: 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.

L2421961-11 (Low): The internal standard (IS) responses for chlorobenzene-d5 (49%) and 1,4-dichlorobenzene-d4 (48%) and the surrogate recoveries for 1,2-dichloroethane-d4 (59%), dibromofluoromethane (62%), toluene-d8 (179%), and 4-bromofluorobenzene (2342%) were outside the acceptance criteria due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. Since the IS response was below method criteria, all associated compounds are considered to have

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

Case Narrative (continued)

a potentially high bias. A high-level analysis was performed, and those results are also reported.

Semivolatile Organics

L2421961-07D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

L2421961-04 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1913014-4 Laboratory Duplicate RPD for lead (21%), performed on L2421961-04, 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.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/29/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-01 D
Client ID: GPR217-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 17:41
Analyst: JIC
Percent Solids: 64%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	ND		mg/kg	0.69	0.23	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	**136**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-02
Client ID: GPR217-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:55
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 11:19
Analyst: AJK
Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00056	J	mg/kg	0.00085	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**2270**	Q	70-130
Dibromofluoromethane	95		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-03
Client ID: GPR217-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 09:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 12:01
Analyst: AJK
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0030		mg/kg	0.0011	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	**167**	Q	70-130
4-Bromofluorobenzene	**767**	Q	70-130
Dibromofluoromethane	97		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 10:37
Analyst: MKS
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	ND		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
Ethylbenzene	0.00019	J	mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0014	J	mg/kg	0.0020	0.00057	1
o-Xylene	0.00083	J	mg/kg	0.0010	0.00030	1
Xylenes, Total	0.0022	J	mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.018		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.0027		mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0020		mg/kg	0.0020	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	111		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 12:42
Analyst: JIC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00065	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Toluene	ND		mg/kg	0.0013	0.00071	1
1,2-Dibromoethane	ND		mg/kg	0.00065	0.00038	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	0.0026		mg/kg	0.0026	0.00073	1
o-Xylene	0.0021		mg/kg	0.0013	0.00038	1
Xylenes, Total	0.0047		mg/kg	0.0013	0.00038	1
Isopropylbenzene	0.0059		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	0.0011	J	mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	0.0024	J	mg/kg	0.0026	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	105		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 11:40
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	0.0018		mg/kg	0.00060	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Toluene	0.0017		mg/kg	0.0012	0.00066	1
1,2-Dibromoethane	ND		mg/kg	0.00060	0.00035	1
Ethylbenzene	0.0043		mg/kg	0.0012	0.00017	1
p/m-Xylene	0.012		mg/kg	0.0024	0.00068	1
o-Xylene	0.0063		mg/kg	0.0012	0.00035	1
Xylenes, Total	0.018		mg/kg	0.0012	0.00035	1
Isopropylbenzene	0.23		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.0022	J	mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	0.0054		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**314**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 13:10
Analyst: JIC
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00033	1
Benzene	0.00032	J	mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Toluene	ND		mg/kg	0.0016	0.00088	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00048	1
Ethylbenzene	0.00040	J	mg/kg	0.0016	0.00023	1
p/m-Xylene	0.0020	J	mg/kg	0.0032	0.00091	1
o-Xylene	0.0074		mg/kg	0.0016	0.00047	1
Xylenes, Total	0.0094	J	mg/kg	0.0016	0.00047	1
Isopropylbenzene	0.020		mg/kg	0.0016	0.00018	1
1,3,5-Trimethylbenzene	0.0016	J	mg/kg	0.0032	0.00031	1
1,2,4-Trimethylbenzene	0.0066		mg/kg	0.0032	0.00054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	103		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 11:32
Analyst: AJK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	0.00072	J	mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0053		mg/kg	0.0020	0.00057	1
o-Xylene	0.0074		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.013		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.019		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0030		mg/kg	0.0020	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**1470**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 13:37
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	ND		mg/kg	0.0012	0.00064	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	0.0011	J	mg/kg	0.0024	0.00066	1
o-Xylene	0.0018		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0029	J	mg/kg	0.0012	0.00034	1
Isopropylbenzene	0.0011	J	mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	118		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 10:58
Analyst: AJK
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00066	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Toluene	ND		mg/kg	0.0013	0.00071	1
1,2-Dibromoethane	ND		mg/kg	0.00066	0.00038	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00073	1
o-Xylene	ND		mg/kg	0.0013	0.00038	1
Xylenes, Total	ND		mg/kg	0.0013	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 17:17
Analyst: KJD
Percent Solids: 86%

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	ND		mg/kg	0.030	0.0099	1
1,2-Dichloroethane	ND		mg/kg	0.060	0.015	1
Toluene	0.054	J	mg/kg	0.060	0.032	1
1,2-Dibromoethane	ND		mg/kg	0.030	0.017	1
Ethylbenzene	0.017	J	mg/kg	0.060	0.0084	1
p/m-Xylene	0.074	J	mg/kg	0.12	0.033	1
o-Xylene	0.033	J	mg/kg	0.060	0.017	1
Xylenes, Total	0.11	J	mg/kg	0.060	0.017	1
Isopropylbenzene	0.45		mg/kg	0.060	0.0065	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.12	0.011	1
1,2,4-Trimethylbenzene	0.028	J	mg/kg	0.12	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 12:03
Analyst: AJK
Percent Solids: 86%

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	0.00020	J	mg/kg	0.00046	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00092	0.00024	1
Toluene	0.0040		mg/kg	0.00092	0.00050	1
1,2-Dibromoethane	ND		mg/kg	0.00046	0.00027	1
Ethylbenzene	ND		mg/kg	0.00092	0.00013	1
p/m-Xylene	0.024		mg/kg	0.0018	0.00051	1
o-Xylene	0.011		mg/kg	0.00092	0.00027	1
Xylenes, Total	0.035		mg/kg	0.00092	0.00027	1
Isopropylbenzene	0.25		mg/kg	0.00092	0.00010	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0018	0.00018	1
1,2,4-Trimethylbenzene	0.010		mg/kg	0.0018	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**59**	Q	70-130
Toluene-d8	**179**	Q	70-130
4-Bromofluorobenzene	**2340**	Q	70-130
Dibromofluoromethane	**62**	Q	70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 12:22
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	ND		mg/kg	0.0023	0.00023	1
Benzene	ND		mg/kg	0.00058	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	0.0010	J	mg/kg	0.0012	0.00063	1
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1
Ethylbenzene	0.00064	J	mg/kg	0.0012	0.00016	1
p/m-Xylene	0.0033		mg/kg	0.0023	0.00065	1
o-Xylene	0.0050		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0083		mg/kg	0.0012	0.00034	1
Isopropylbenzene	0.0087		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.00044	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.0020	J	mg/kg	0.0023	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	**189**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/25/24 18:52
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/25/24 09:34
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-14
Client ID: TB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/25/24 19:01
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-14
Client ID: TB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/25/24 09:57
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/25/24 18:19
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1913109-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 11:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1913321-5					
Benzene	ND		mg/kg	0.025	0.0083

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 08:47
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1913589-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 11:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,07,09 Batch: WG1913798-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 09:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04,06,10,12 Batch: WG1914613-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	119		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 09:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 11 Batch: WG1914615-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	119		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1914738-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 11:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1914741-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1913109-2								
1,2-Dibromoethane	92		-		80-120	-		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1913321-3 WG1913321-4								
Benzene	90		88		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	91		90		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	106		122		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1913589-3 WG1913589-4								
Methyl tert butyl ether	91		90		63-130	1		20
Benzene	100		100		70-130	0		20
1,2-Dichloroethane	98		97		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		98		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
Isopropylbenzene	100		99		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	99		98		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,07,09 Batch: WG1913798-3 WG1913798-4								
Methyl tert butyl ether	97		124		66-130	24		30
Benzene	90		88		70-130	2		30
1,2-Dichloroethane	85		84		70-130	1		30
Toluene	83		80		70-130	4		30
1,2-Dibromoethane	99		97		70-130	2		30
Ethylbenzene	88		86		70-130	2		30
p/m-Xylene	86		83		70-130	4		30
o-Xylene	85		82		70-130	4		30
Isopropylbenzene	79		80		70-130	1		30
1,3,5-Trimethylbenzene	87		87		70-130	0		30
1,2,4-Trimethylbenzene	89		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	91		90		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	106		122		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04,06,10,12 Batch: WG1914613-3 WG1914613-4								
Methyl tert butyl ether	79		77		66-130	3		30
Benzene	105		102		70-130	3		30
1,2-Dichloroethane	107		104		70-130	3		30
Toluene	97		92		70-130	5		30
1,2-Dibromoethane	95		92		70-130	3		30
Ethylbenzene	96		91		70-130	5		30
p/m-Xylene	105		102		70-130	3		30
o-Xylene	105		98		70-130	7		30
Isopropylbenzene	91		84		70-130	8		30
1,3,5-Trimethylbenzene	96		90		70-130	6		30
1,2,4-Trimethylbenzene	96		91		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	92		89		70-130
4-Bromofluorobenzene	83		82		70-130
Dibromofluoromethane	104		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 11 Batch: WG1914615-3 WG1914615-4								
Methyl tert butyl ether	79		77		66-130	3		30
Benzene	105		102		70-130	3		30
1,2-Dichloroethane	107		104		70-130	3		30
Toluene	97		92		70-130	5		30
1,2-Dibromoethane	95		92		70-130	3		30
Ethylbenzene	96		91		70-130	5		30
p/m-Xylene	105		102		70-130	3		30
o-Xylene	105		98		70-130	7		30
Isopropylbenzene	91		84		70-130	8		30
1,3,5-Trimethylbenzene	96		90		70-130	6		30
1,2,4-Trimethylbenzene	96		91		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	92		89		70-130
4-Bromofluorobenzene	83		82		70-130
Dibromofluoromethane	104		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1914738-3 WG1914738-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1914741-3 WG1914741-4								
Methyl tert butyl ether	79		73		66-130	8		30
Benzene	100		86		70-130	15		30
1,2-Dichloroethane	94		89		70-130	5		30
Toluene	101		88		70-130	14		30
1,2-Dibromoethane	97		93		70-130	4		30
Ethylbenzene	100		88		70-130	13		30
p/m-Xylene	106		92		70-130	14		30
o-Xylene	105		93		70-130	12		30
Isopropylbenzene	102		87		70-130	16		30
1,3,5-Trimethylbenzene	100		87		70-130	14		30
1,2,4-Trimethylbenzene	102		88		70-130	15		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		94		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	94		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 06:42
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.4		mg/kg	0.042	0.026	1
Fluorene	4.2		mg/kg	0.21	0.020	1
Phenanthrene	11.	E	mg/kg	0.13	0.026	1
Anthracene	4.6		mg/kg	0.13	0.041	1
Pyrene	6.8		mg/kg	0.13	0.021	1
Benzo(a)anthracene	5.4		mg/kg	0.13	0.024	1
Chrysene	3.7		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	4.5		mg/kg	0.13	0.035	1
Benzo(a)pyrene	4.2		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	1.8		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	64		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04 D
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:59
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	14.		mg/kg	0.63	0.13	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 05:28
Analyst: JG
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	5.8		mg/kg	0.046	0.028	1
Fluorene	6.3		mg/kg	0.23	0.022	1
Phenanthrene	17.	E	mg/kg	0.14	0.028	1
Anthracene	8.3		mg/kg	0.14	0.045	1
Pyrene	12.	E	mg/kg	0.14	0.023	1
Benzo(a)anthracene	13.	E	mg/kg	0.14	0.026	1
Chrysene	8.1		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	13.	E	mg/kg	0.14	0.039	1
Benzo(a)pyrene	10.	E	mg/kg	0.18	0.056	1
Benzo(ghi)perylene	4.0		mg/kg	0.18	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	55		30-120
4-Terphenyl-d14	54		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05 D
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:17
Analyst: JG
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	28.		mg/kg	0.69	0.14	5
Pyrene	20.		mg/kg	0.69	0.11	5
Benzo(a)anthracene	13.		mg/kg	0.69	0.13	5
Benzo(b)fluoranthene	12.		mg/kg	0.69	0.19	5
Benzo(a)pyrene	11.		mg/kg	0.92	0.28	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 05:53
Analyst: JG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.62		mg/kg	0.037	0.023	1
Fluorene	0.36		mg/kg	0.18	0.018	1
Phenanthrene	0.96		mg/kg	0.11	0.022	1
Anthracene	0.36		mg/kg	0.11	0.036	1
Pyrene	1.2		mg/kg	0.11	0.018	1
Benzo(a)anthracene	1.0		mg/kg	0.11	0.021	1
Chrysene	0.93		mg/kg	0.11	0.019	1
Benzo(b)fluoranthene	1.2		mg/kg	0.11	0.031	1
Benzo(a)pyrene	1.1		mg/kg	0.15	0.045	1
Benzo(ghi)perylene	0.62		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	69		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07 D
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 21:10
Analyst: IM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.9		mg/kg	0.68	0.42	5
Fluorene	7.7		mg/kg	3.4	0.33	5
Phenanthrene	23.		mg/kg	2.0	0.42	5
Anthracene	6.4		mg/kg	2.0	0.67	5
Pyrene	13.		mg/kg	2.0	0.34	5
Benzo(a)anthracene	4.0		mg/kg	2.0	0.38	5
Chrysene	6.2		mg/kg	2.0	0.36	5
Benzo(b)fluoranthene	1.4	J	mg/kg	2.0	0.58	5
Benzo(a)pyrene	2.0	J	mg/kg	2.7	0.84	5
Benzo(ghi)perylene	1.9	J	mg/kg	2.7	0.40	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	32		23-120
2-Fluorobiphenyl	40		30-120
4-Terphenyl-d14	31		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:20
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.86		mg/kg	0.039	0.024	1
Fluorene	0.63		mg/kg	0.19	0.019	1
Phenanthrene	2.3		mg/kg	0.12	0.024	1
Anthracene	1.2		mg/kg	0.12	0.038	1
Pyrene	3.1		mg/kg	0.12	0.019	1
Benzo(a)anthracene	2.0		mg/kg	0.12	0.022	1
Chrysene	1.8		mg/kg	0.12	0.020	1
Benzo(b)fluoranthene	1.8		mg/kg	0.12	0.033	1
Benzo(a)pyrene	1.7		mg/kg	0.16	0.048	1
Benzo(ghi)perylene	0.67		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	34		30-120
4-Terphenyl-d14	39		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 06:17
Analyst: JG
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.4		mg/kg	0.044	0.027	1
Fluorene	1.1		mg/kg	0.22	0.021	1
Phenanthrene	0.83		mg/kg	0.13	0.027	1
Anthracene	0.87		mg/kg	0.13	0.043	1
Pyrene	2.6		mg/kg	0.13	0.022	1
Benzo(a)anthracene	1.9		mg/kg	0.13	0.025	1
Chrysene	1.7		mg/kg	0.13	0.023	1
Benzo(b)fluoranthene	2.0		mg/kg	0.13	0.037	1
Benzo(a)pyrene	2.0		mg/kg	0.18	0.053	1
Benzo(ghi)perylene	1.1		mg/kg	0.18	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	52		30-120
4-Terphenyl-d14	49		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:44
Analyst: CMM
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.3		mg/kg	0.048	0.030	1
Fluorene	0.20	J	mg/kg	0.24	0.024	1
Phenanthrene	0.79		mg/kg	0.14	0.030	1
Anthracene	0.65		mg/kg	0.14	0.047	1
Pyrene	1.0		mg/kg	0.14	0.024	1
Benzo(a)anthracene	0.70		mg/kg	0.14	0.027	1
Chrysene	0.80		mg/kg	0.14	0.025	1
Benzo(b)fluoranthene	0.91		mg/kg	0.14	0.041	1
Benzo(a)pyrene	0.71		mg/kg	0.19	0.059	1
Benzo(ghi)perylene	0.54		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	45		30-120
4-Terphenyl-d14	49		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:07
Analyst: CMM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.0		mg/kg	0.038	0.023	1
Fluorene	4.4		mg/kg	0.19	0.018	1
Phenanthrene	10.	E	mg/kg	0.11	0.023	1
Anthracene	5.3		mg/kg	0.11	0.037	1
Pyrene	11.	E	mg/kg	0.11	0.019	1
Benzo(a)anthracene	7.9	E	mg/kg	0.11	0.022	1
Chrysene	6.7		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	9.4	E	mg/kg	0.11	0.032	1
Benzo(a)pyrene	8.4	E	mg/kg	0.15	0.047	1
Benzo(ghi)perylene	3.6		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	52		30-120
4-Terphenyl-d14	57		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11 D
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 21:34
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	16.		mg/kg	0.57	0.12	5
Pyrene	15.		mg/kg	0.57	0.095	5
Benzo(a)anthracene	11.		mg/kg	0.57	0.11	5
Benzo(b)fluoranthene	11.		mg/kg	0.57	0.16	5
Benzo(a)pyrene	11.		mg/kg	0.76	0.23	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:30
Analyst: CMM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.0		mg/kg	0.041	0.025	1
Fluorene	2.6		mg/kg	0.20	0.020	1
Phenanthrene	6.6		mg/kg	0.12	0.025	1
Anthracene	2.6		mg/kg	0.12	0.040	1
Pyrene	6.5		mg/kg	0.12	0.020	1
Benzo(a)anthracene	3.3		mg/kg	0.12	0.023	1
Chrysene	3.2		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	3.9		mg/kg	0.12	0.034	1
Benzo(a)pyrene	3.3		mg/kg	0.16	0.050	1
Benzo(ghi)perylene	1.6		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	36		30-120
4-Terphenyl-d14	43		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 09:44
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	57		15-120
4-Terphenyl-d14	48		41-149

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/25/24 22:56
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-12 Batch: WG1912943-1					
Naphthalene	ND		mg/kg	0.032	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Pyrene	ND		mg/kg	0.097	0.016
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	84		18-120

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-12 Batch: WG1912943-2 WG1912943-3								
Naphthalene	80		74		40-140	8		50
Fluorene	86		79		40-140	8		50
Phenanthrene	83		75		40-140	10		50
Anthracene	87		81		40-140	7		50
Pyrene	90		81		35-142	11		50
Benzo(a)anthracene	86		80		40-140	7		50
Chrysene	80		73		40-140	9		50
Benzo(b)fluoranthene	89		76		40-140	16		50
Benzo(a)pyrene	91		82		40-140	10		50
Benzo(ghi)perylene	90		82		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		88		25-120
Phenol-d6	97		92		10-120
Nitrobenzene-d5	87		84		23-120
2-Fluorobiphenyl	88		81		30-120
2,4,6-Tribromophenol	82		75		10-136
4-Terphenyl-d14	91		85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	77.5		mg/kg	5.00	0.268	2	04/25/24 17:47	04/26/24 17:47	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	119		mg/kg	5.55	0.297	2	04/25/24 17:47	04/26/24 18:21	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	161		mg/kg	4.46	0.239	2	04/25/24 17:47	04/26/24 18:25	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	560		mg/kg	5.53	0.297	2	04/25/24 17:47	04/26/24 18:30	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	44.4		mg/kg	4.66	0.250	2	04/25/24 17:47	04/26/24 18:34	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	58.0		mg/kg	5.19	0.278	2	04/25/24 17:47	04/26/24 18:39	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	319		mg/kg	5.71	0.306	2	04/25/24 17:47	04/26/24 18:43	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	153		mg/kg	4.60	0.247	2	04/25/24 17:47	04/26/24 18:48	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	133		mg/kg	4.92	0.263	2	04/25/24 17:47	04/26/24 18:52	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 16:12	04/28/24 18:05	EPA 3005A	1,6020B	WKP

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04-12 Batch: WG1913014-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 17:47	04/26/24 17:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913279-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 16:12	04/28/24 17:23	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 Batch: WG1913014-2								
Lead, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913279-2								
Lead, Total	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 QC Batch ID: WG1913014-3 QC Sample: L2421961-04 Client ID: GPR219-01-SS01												
Lead, Total	77.5	53.4	132	102		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913279-3 QC Sample: L2422008-03 Client ID: MS Sample												
Lead, Total	0.7450J	530	599.8	113		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 QC Batch ID: WG1913014-4 QC Sample: L2421961-04 Client ID: GPR219-01-SS01						
Lead, Total	77.5	62.7	mg/kg	**21**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913279-4 QC Sample: L2422008-03 Client ID: DUP Sample						
Lead, Total	0.7450J	0.6935J	ug/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-01
Client ID: GPR217-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:35
Date Received: 04/22/24
Field Prep: Not Specified

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	63.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-02
Client ID: GPR217-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:55
Date Received: 04/22/24
Field Prep: Not Specified

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	61.0		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-03
Client ID: GPR217-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 09:05
Date Received: 04/22/24
Field Prep: Not Specified

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	55.6		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

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	79.2		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

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	71.9		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

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	88.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

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	70.7		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

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	83.7		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

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	74.1		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

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	68.1		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

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	86.2		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

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	80.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1912013-1 QC Sample: L2422025-04 Client ID: DUP Sample						
Solids, Total	83.8	83.8	%	0		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-01B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-01C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-01D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-02B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-02C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-02D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-03A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-03B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-03C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-03D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-04A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-04B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-04C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-04E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-04F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-05A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-05B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-05C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-05E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-05F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-06A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-06B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-06C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-06D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-06E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-06F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-07A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-07B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-07C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-07E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-07F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-08A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-08B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-08C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-08E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-08F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-09A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-09B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-09C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-09E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-09F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-10A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-10B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-10C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-10E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-10F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-11A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2421961-11B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260H(14),PA-8260HLW(14)
L2421961-11C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260H(14),PA-8260HLW(14)
L2421961-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-11E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-11F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-12A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-12B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-12C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-12D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-12E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-12F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-13A	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-13B	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-13C	Vial HCl preserved	A	NA		3.4	Y	Absent		8011(14)
L2421961-13D	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		PB-6020T-PPB(180)
L2421961-13E	Amber 250ml unpreserved	A	NA		3.4	Y	Absent		PA-PAHSIM-LVI(7)
L2421961-13F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		PA-PAHSIM-LVI(7)
L2421961-14A	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-14B	Vial HCl preserved	A	NA		3.4	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd In Lab: 4/23/24

ALPHA Job #: L2421961

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Benzene	ANALYSIS: Short List 1-5 (see Comment)	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
21961-01	GPR217-04-5501	04/22/24	8:35	S	ND	X				4
-02	GPR217-05-5501		8:55			X				4
-03	GPR217-07-5501		9:05			X				4
-04	GPR219-01-5501		11:35				X			6
-05	GPR219-02-5501		11:50				X			6
-06	GPR219-03-5501		12:10				X			6
-07	GPR219-04-5501		11:00				X			6
-08	GPR219-05-5501		11:15				X			6
-09	GPR219-06-5501		12:30				X			6
-10	GPR219-07-5501		13:20				X			6

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

2nd: 4/23/24 0210
4/23/24 0210

Container Type										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
Anthony Green	4/23/24 0010	Anthony Green	4/23/24 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APR 22 2024

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/23/24

ALPHA Job #: L2421961

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Benzene; Short List-S (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	Short List-S (see attached)	Sample Specific Comments	TOTAL # BOTTLES
21961-11	GPR219-08-SS01	04/22/24	13:45	S	ND		X		6
-12	GPR219-09-SS01	↓	13:05	↓	↓		X		6
-13	FB-240422	↓	10:00	blank	↓	X	X		6
-14	TB-240422	04/19/24		blank		X	X		2

Container Type
Preservative

Rec'd: [signature] 4/23/24 0210
[signature] 4/23/24 0210

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Rye	04/22/24/14:40	Cy PACE	4/22/24 14:40
Cy PACE	4/22/24 1830	Anthony Green	APR 22 2024 1830
Anthony Green	4/22/24 2142	[signature]	4/23/24 0010
	4/23/24 0010		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products (cont.)

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Fuel Oil Nos 4, 5 and 6, and Lubricating Oils and Fluids 5	Benzene Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Fluorene Anthracene Phenanthrene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Phenanthrene Pyrene Chrysene	EPA Method 8270C, 8310 or 525.2
Used Motor Oil 6	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 525.2
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Mineral Insulating Oil	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082 or 508A
	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8021B or 5035/8260B	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
Other Petroleum Products Blended Petroleum Products Unknown Petroleum Products Other Regulated Substances	Contact the DEP Regional Office responsible for the county in which the tank is located			

[1] Samples from potable water supplies must be analyzed using a method applicable to drinking water

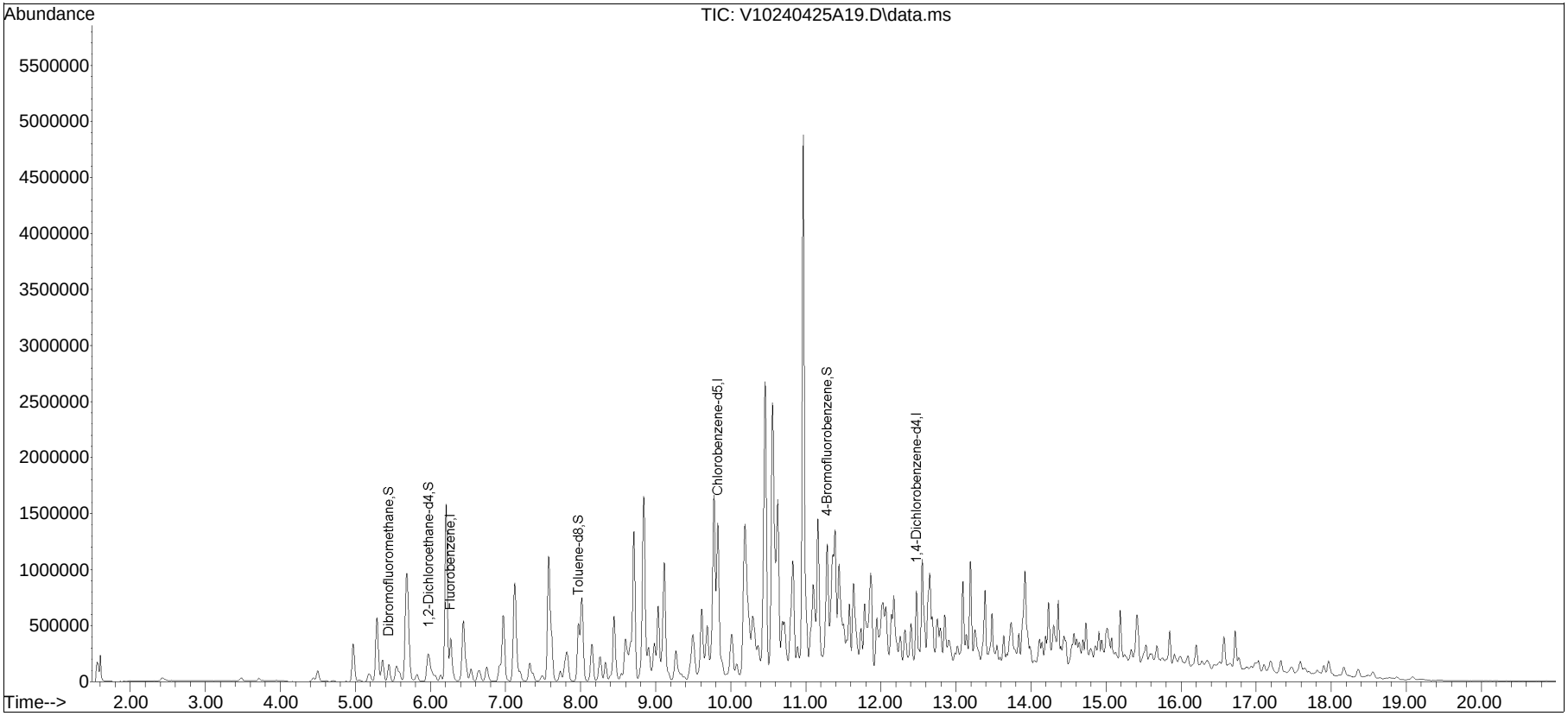
Notes:
When reporting nondetected (ND), the data must be accompanied by a numerical quantitation limit that takes into account dilution, sample preparation, and matrix effects.
The responsible party has the obligation to ensure that the analytical methodologies and techniques employed are suitable to provide data that meets the minimal data quality objectives outlined and referenced in this document.
Laboratories must document that samples meet all applicable preservation requirements.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA110\2024\240425A\
Data File : V10240425A19.D
Acq On : 25 Apr 2024 5:41 pm
Operator : VOA110:JIC
Sample : l2421961-01d,31h,3.57,5,0.01,,a
Misc : WG1913321,ICAL20673
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 26 07:52:36 2024
Quant Method : K:\VOA110\2024\240425A\V110_231214N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 15 08:40:25 2023
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV10240425A01.D•

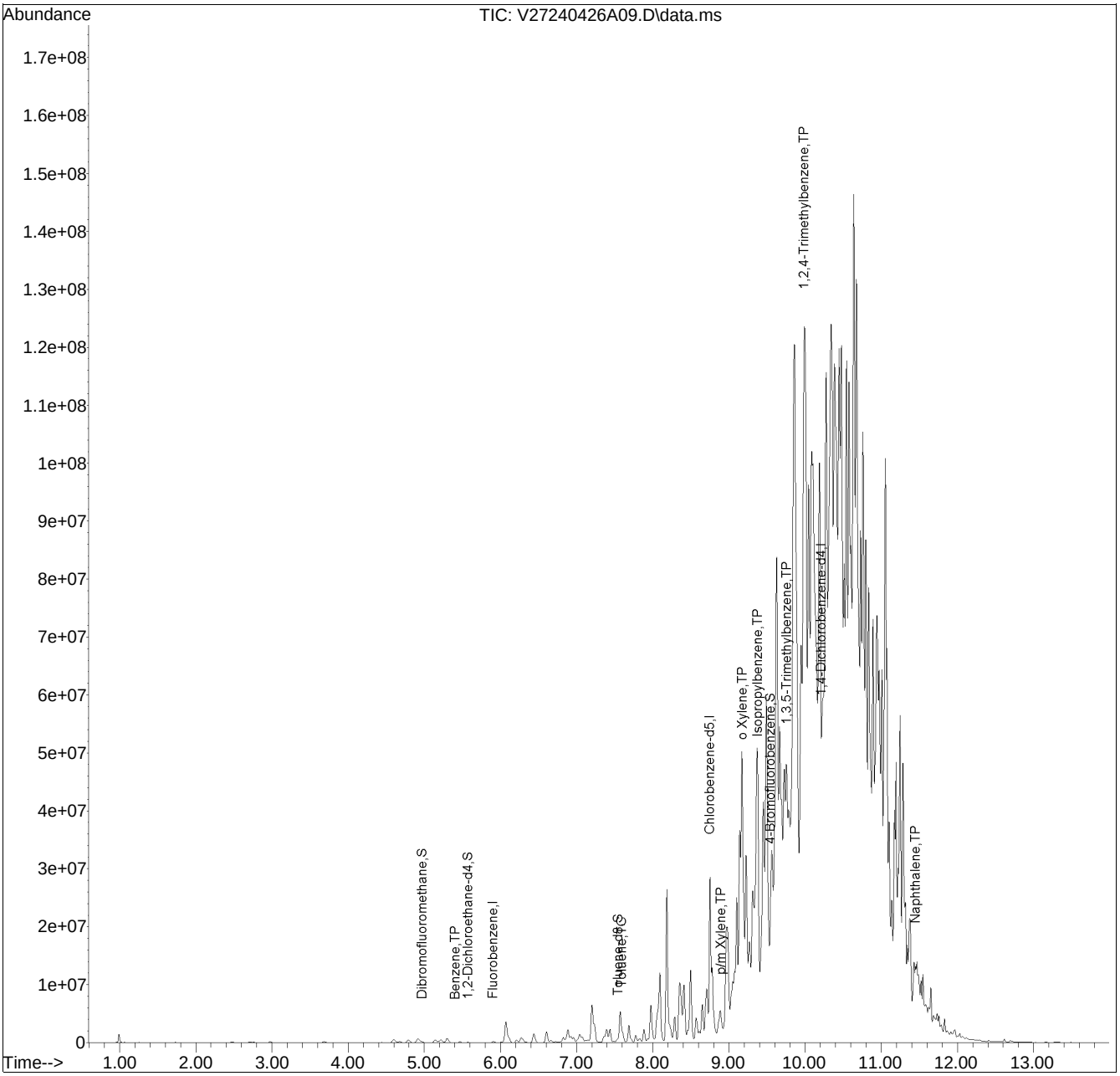


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A09.D
Acq On : 26 Apr 2024 11:19 am
Operator : VOA127:AJK
Sample : L2421961-02,31,4.83,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 26 11:36:00 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•

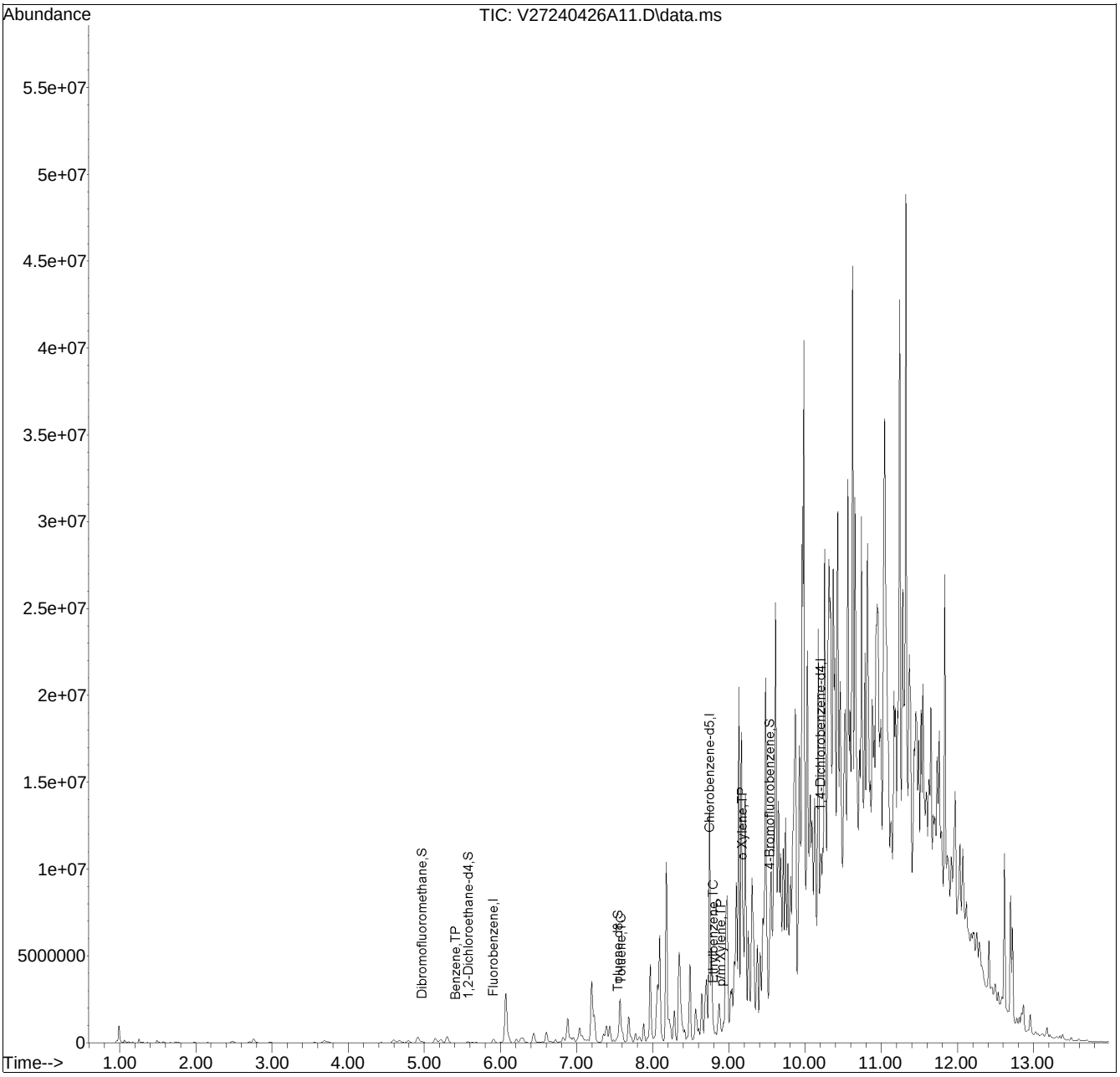


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A11.D
Acq On : 26 Apr 2024 12:01 pm
Operator : VOA127:AJK
Sample : L2421961-03,31,4.06,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 26 12:42:03 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-BTEX - Standard BTEX List240426A01.D•

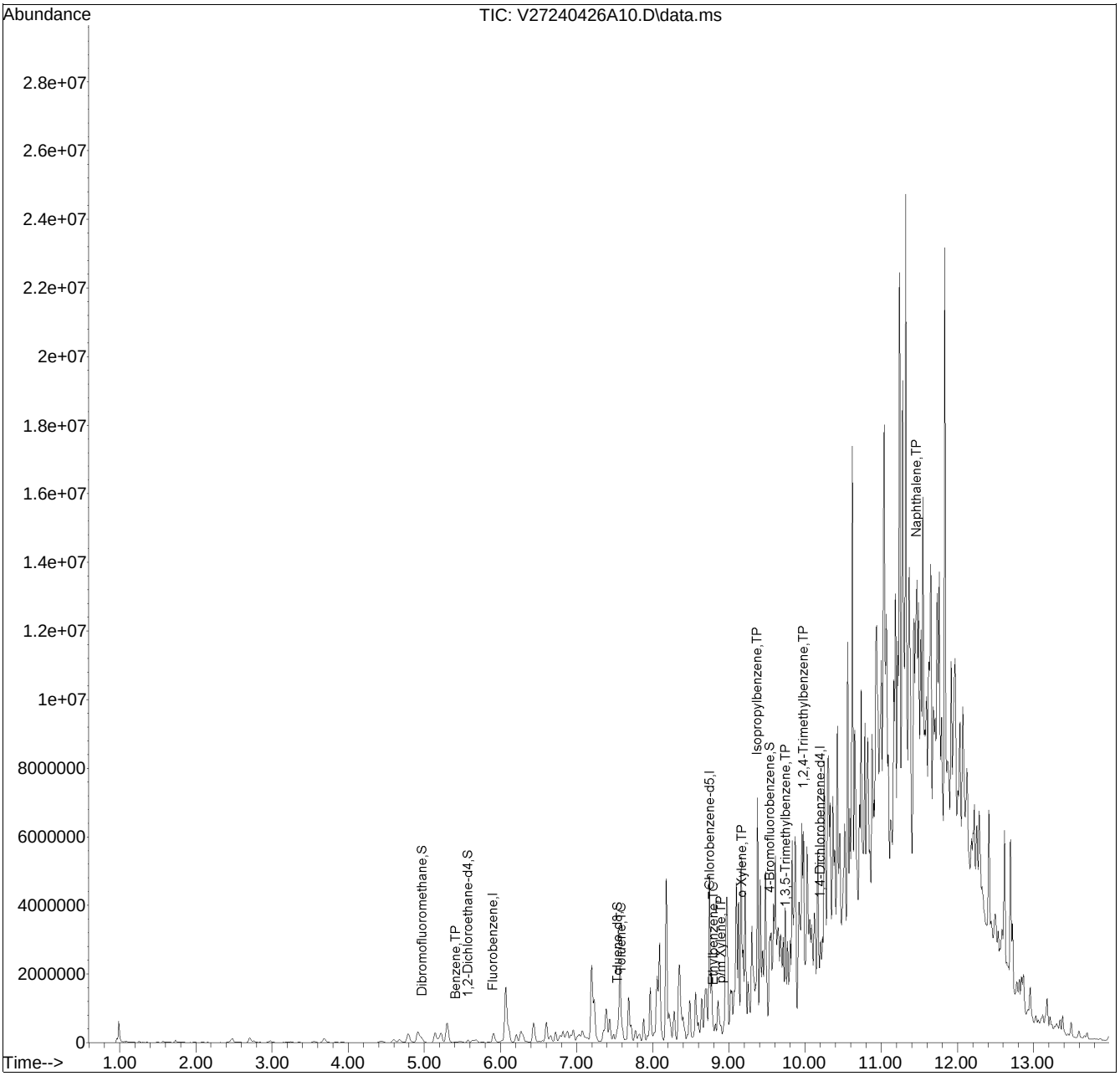


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A10.D
Acq On : 26 Apr 2024 11:40 am
Operator : VOA127:AJK
Sample : L2421961-06,31,4.66,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 26 12:03:33 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•

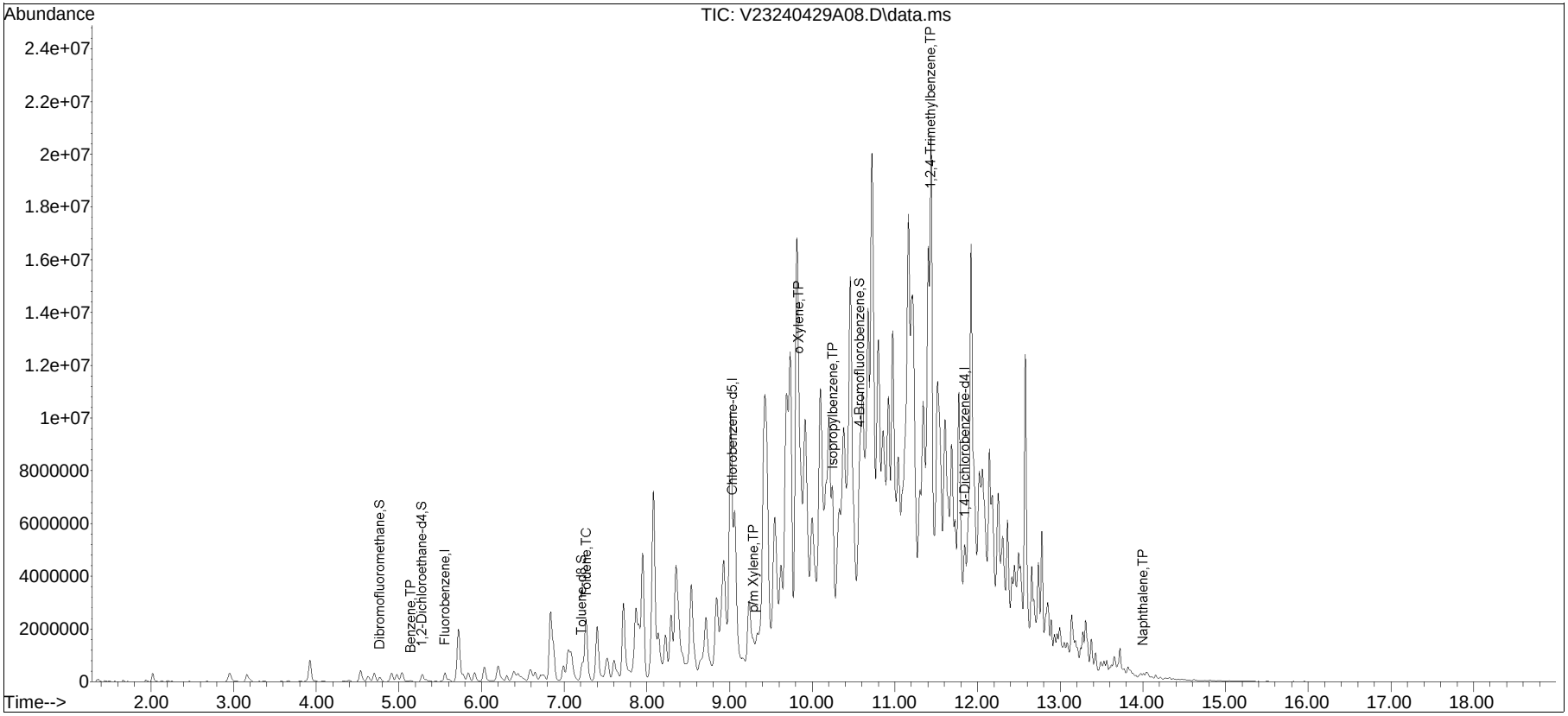


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240429A\
Data File : V23240429A08.D
Acq On : 29 Apr 2024 11:32 am
Operator : VOA123:AJK
Sample : L2421961-08,31,5.82,5,,B
Misc : WG1914738,ICAL20839
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:57:59 2024
Quant Method : K:\VOA123\2024\240429A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

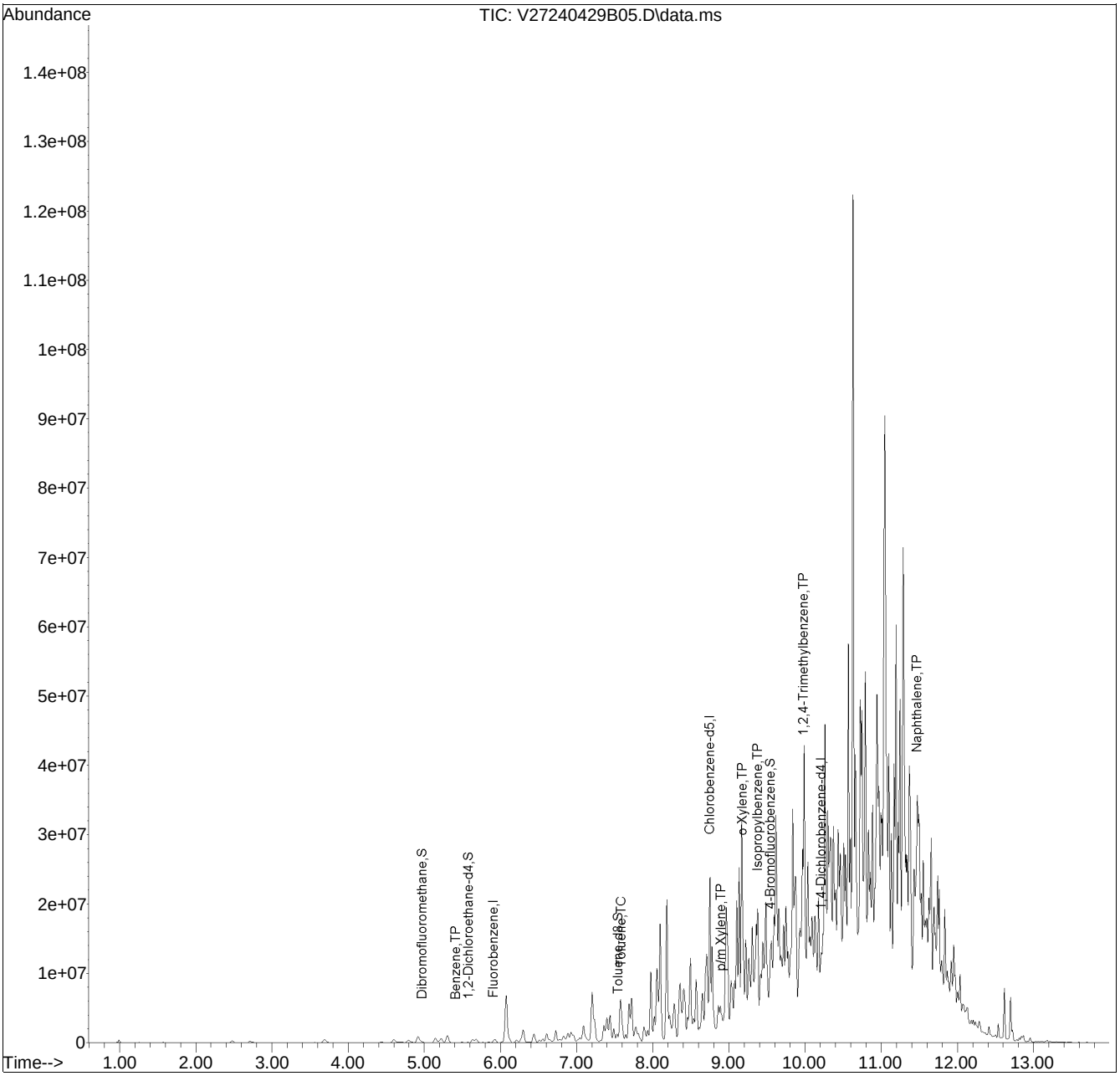


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240429B\
Data File : V27240429B05.D
Acq On : 29 Apr 2024 12:03 pm
Operator : VOA127:AJK
Sample : L2421961-11,31,6.31,5,,B
Misc : WG1914741,ICAL20985
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 12:36:23 2024
Quant Method : K:\VOA127\2024\240429B\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429B01.D•

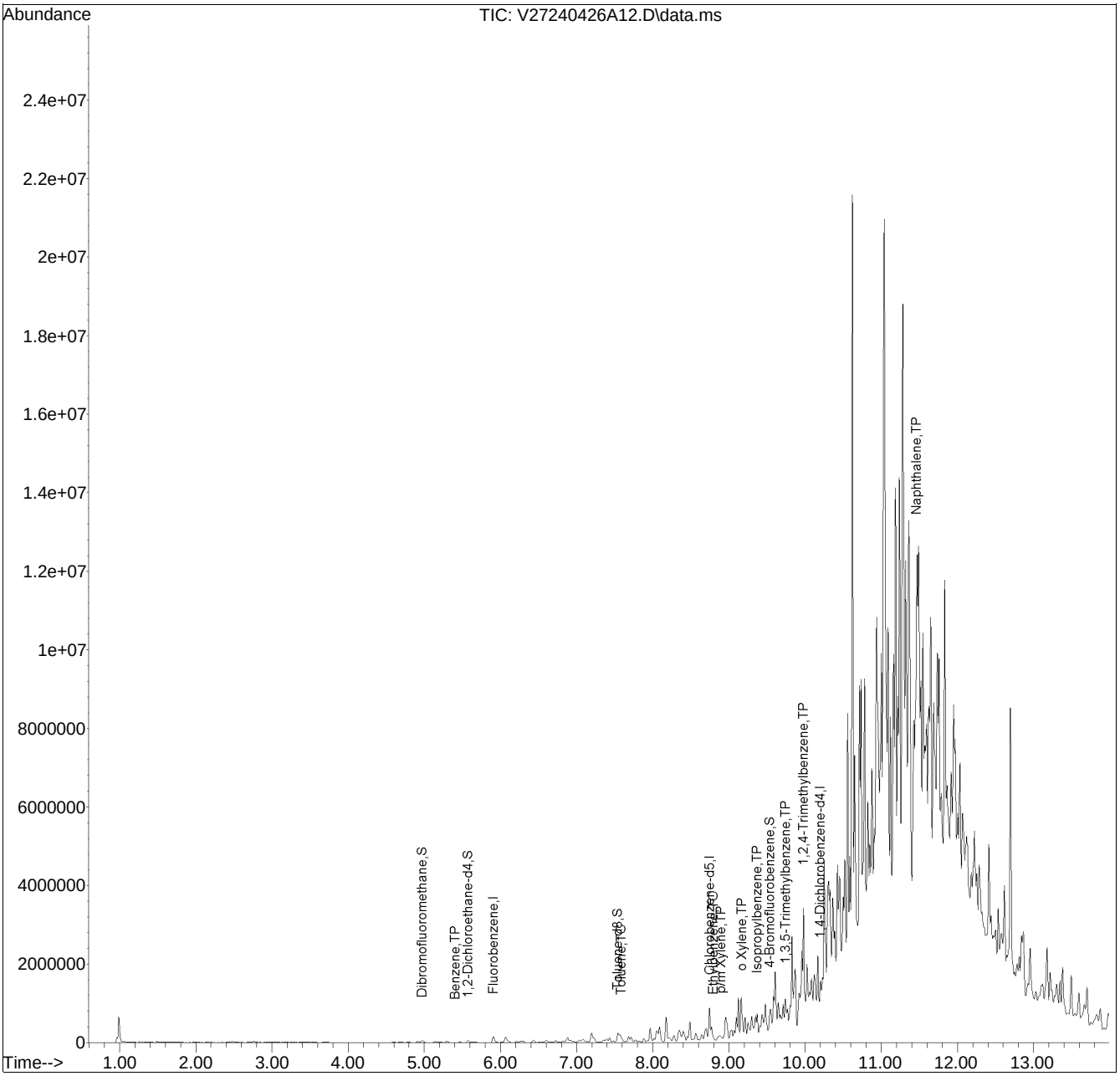


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A12.D
Acq On : 26 Apr 2024 12:22 pm
Operator : VOA127:AJK
Sample : L2421961-12,31,5.31,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 26 12:45:03 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•



ANALYTICAL REPORT

Lab Number:	L2422248
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	04/30/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422248-01	GPR225-01-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:35	04/23/24
L2422248-02	GPR225-02-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:55	04/23/24
L2422248-03	GPR225-03-SS01	SOIL	PHILADELPHIA, PA	04/23/24 10:20	04/23/24
L2422248-04	GPR225-04-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:10	04/23/24
L2422248-05	GPR225-05-SS01	SOIL	PHILADELPHIA, PA	04/23/24 12:00	04/23/24
L2422248-06	GPR225-06-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:45	04/23/24
L2422248-07	GPR225-07-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:25	04/23/24
L2422248-08	GPR225-08-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:00	04/23/24
L2422248-09	GPR225-09-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:35	04/23/24
L2422248-10	GPR225-10-SS01	SOIL	PHILADELPHIA, PA	04/23/24 10:35	04/23/24
L2422248-11	GPR225-11-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:00	04/23/24
L2422248-12	GPR225-12-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:15	04/23/24
L2422248-13	FB-240423	WATER	PHILADELPHIA, PA	04/23/24 12:30	04/23/24
L2422248-14	TB-240423	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/23/24

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2422248-10D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2422248-10D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (136%); 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.

L2422248-11 and -12: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2422248-11: 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.

L2422248-12: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (152%); 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.

Microextractables

L2422248-13 and -14: The sample was not appropriately preserved for 8011. The analysis was performed on an HCl preserved vial with the client's authorization.

The WG1914111-2 LCS recovery for 1,2-dibromoethane (130%), associated with L2422248-13 and -14, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

PAHs

L2422248-11D and -12D: The sample has elevated detection limits due to the dilution required by the sample

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

Case Narrative (continued)

matrix.

Total Metals

L2422248-01 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/30/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 15:25
Analyst: AJK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	ND		mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 16:43
Analyst: AJK
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	ND		mg/kg	0.0012	0.00064	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00034	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1
o-Xylene	0.0044		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0044		mg/kg	0.0012	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 15:51
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00056	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	0.00067	J	mg/kg	0.0011	0.00061	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1
Ethylbenzene	0.00019	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0026		mg/kg	0.0022	0.00063	1
o-Xylene	0.0033		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0059		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.010		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0025		mg/kg	0.0022	0.00022	1
1,2,4-Trimethylbenzene	0.0086		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 10:09
Analyst: AJK
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
Benzene	ND		mg/kg	0.00062	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Toluene	ND		mg/kg	0.0012	0.00067	1
1,2-Dibromoethane	ND		mg/kg	0.00062	0.00036	1
Ethylbenzene	0.00020	J	mg/kg	0.0012	0.00017	1
p/m-Xylene	0.0011	J	mg/kg	0.0025	0.00069	1
o-Xylene	0.00054	J	mg/kg	0.0012	0.00036	1
Xylenes, Total	0.0016	J	mg/kg	0.0012	0.00036	1
Isopropylbenzene	0.00066	J	mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.00027	J	mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	0.00057	J	mg/kg	0.0025	0.00041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 16:17
Analyst: AJK
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	0.0021	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00031	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:09
Analyst: AJK
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
Benzene	ND		mg/kg	0.00068	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00035	1
Toluene	ND		mg/kg	0.0014	0.00073	1
1,2-Dibromoethane	ND		mg/kg	0.00068	0.00040	1
Ethylbenzene	ND		mg/kg	0.0014	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00076	1
o-Xylene	ND		mg/kg	0.0014	0.00039	1
Xylenes, Total	ND		mg/kg	0.0014	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0027	0.00026	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0027	0.00045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:26
Analyst: AJK
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Toluene	ND		mg/kg	0.0013	0.00069	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00072	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:35
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00059	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	0.00021	J	mg/kg	0.0011	0.00015	1
p/m-Xylene	0.0012	J	mg/kg	0.0022	0.00061	1
o-Xylene	0.00061	J	mg/kg	0.0011	0.00032	1
Xylenes, Total	0.0018	J	mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.0013		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00041	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.00067	J	mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:01
Analyst: AJK
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0030	0.00030	1
Benzene	ND		mg/kg	0.00074	0.00025	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00038	1
Toluene	ND		mg/kg	0.0015	0.00081	1
1,2-Dibromoethane	ND		mg/kg	0.00074	0.00044	1
Ethylbenzene	ND		mg/kg	0.0015	0.00021	1
p/m-Xylene	0.0022	J	mg/kg	0.0030	0.00083	1
o-Xylene	0.0013	J	mg/kg	0.0015	0.00043	1
Xylenes, Total	0.0035	J	mg/kg	0.0015	0.00043	1
Isopropylbenzene	0.00050	J	mg/kg	0.0015	0.00016	1
1,3,5-Trimethylbenzene	0.00043	J	mg/kg	0.0030	0.00029	1
1,2,4-Trimethylbenzene	0.0019	J	mg/kg	0.0030	0.00050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	102		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10 D
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 19:18
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	1.3	0.13	10
Benzene	0.11	J	mg/kg	0.32	0.11	10
1,2-Dichloroethane	ND		mg/kg	0.64	0.16	10
Toluene	ND		mg/kg	0.64	0.35	10
1,2-Dibromoethane	ND		mg/kg	0.32	0.19	10
Ethylbenzene	0.20	J	mg/kg	0.64	0.091	10
p/m-Xylene	0.81	J	mg/kg	1.3	0.36	10
o-Xylene	0.27	J	mg/kg	0.64	0.19	10
Xylenes, Total	1.1	J	mg/kg	0.64	0.19	10
Isopropylbenzene	6.6		mg/kg	0.64	0.070	10
1,3,5-Trimethylbenzene	ND		mg/kg	1.3	0.12	10
1,2,4-Trimethylbenzene	0.50	J	mg/kg	1.3	0.22	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	**136**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:58
Analyst: JIC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.15	0.015	1
Benzene	0.016	J	mg/kg	0.038	0.013	1
1,2-Dichloroethane	ND		mg/kg	0.077	0.020	1
Toluene	0.11		mg/kg	0.077	0.042	1
1,2-Dibromoethane	ND		mg/kg	0.038	0.022	1
Ethylbenzene	0.053	J	mg/kg	0.077	0.011	1
p/m-Xylene	0.10	J	mg/kg	0.15	0.043	1
o-Xylene	0.084		mg/kg	0.077	0.022	1
Xylenes, Total	0.18	J	mg/kg	0.077	0.022	1
Isopropylbenzene	1.1		mg/kg	0.077	0.0084	1
1,3,5-Trimethylbenzene	0.023	J	mg/kg	0.15	0.015	1
1,2,4-Trimethylbenzene	0.078	J	mg/kg	0.15	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	**134**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 19:25
Analyst: JIC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.19	0.019	1
Benzene	0.36		mg/kg	0.047	0.016	1
1,2-Dichloroethane	ND		mg/kg	0.094	0.024	1
Toluene	1.2		mg/kg	0.094	0.051	1
1,2-Dibromoethane	ND		mg/kg	0.047	0.028	1
Ethylbenzene	0.18		mg/kg	0.094	0.013	1
p/m-Xylene	1.7		mg/kg	0.19	0.053	1
o-Xylene	0.55		mg/kg	0.094	0.028	1
Xylenes, Total	2.2		mg/kg	0.094	0.028	1
Isopropylbenzene	1.5		mg/kg	0.094	0.010	1
1,3,5-Trimethylbenzene	0.11	J	mg/kg	0.19	0.018	1
1,2,4-Trimethylbenzene	0.30		mg/kg	0.19	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	**152**	Q	70-130
Dibromofluoromethane	84		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:51
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/27/24 00:15
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	112		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-14
Client ID: TB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:59
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-14
Client ID: TB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/27/24 00:39
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	114		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/27/24 14:46
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1914111-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 21:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1914469-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	112		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05-09 Batch: WG1914738-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1914739-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 11-12 Batch: WG1915057-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1915175-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1914111-2								
1,2-Dibromoethane	**130**	Q	-		80-120	-		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1914469-3 WG1914469-4								
Methyl tert butyl ether	100		100		63-130	0		20
Benzene	110		100		70-130	10		20
1,2-Dichloroethane	100		110		70-130	10		20
Toluene	98		100		70-130	2		20
Ethylbenzene	98		100		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
Isopropylbenzene	95		100		70-130	5		20
1,3,5-Trimethylbenzene	95		99		64-130	4		20
1,2,4-Trimethylbenzene	95		99		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		106		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	89		91		70-130
Dibromofluoromethane	108		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-09 Batch: WG1914738-3 WG1914738-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1914739-3 WG1914739-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 11-12 Batch: WG1915057-3 WG1915057-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1915175-3 WG1915175-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 11:57
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.45		mg/kg	0.043	0.026	1
Fluorene	0.60		mg/kg	0.22	0.021	1
Phenanthrene	1.8		mg/kg	0.13	0.026	1
Anthracene	0.21		mg/kg	0.13	0.042	1
Pyrene	0.90		mg/kg	0.13	0.021	1
Benzo(a)anthracene	0.46		mg/kg	0.13	0.024	1
Chrysene	0.43		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	0.49		mg/kg	0.13	0.036	1
Benzo(a)pyrene	0.46		mg/kg	0.17	0.053	1
Benzo(ghi)perylene	0.24		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	60		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 12:20
Analyst: CMM
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.4		mg/kg	0.047	0.029	1
Fluorene	0.83		mg/kg	0.23	0.023	1
Phenanthrene	3.6		mg/kg	0.14	0.028	1
Anthracene	1.9		mg/kg	0.14	0.046	1
Pyrene	6.0		mg/kg	0.14	0.023	1
Benzo(a)anthracene	5.2		mg/kg	0.14	0.026	1
Chrysene	5.3		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	6.6		mg/kg	0.14	0.040	1
Benzo(a)pyrene	6.1		mg/kg	0.19	0.057	1
Benzo(ghi)perylene	3.6		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	50		30-120
4-Terphenyl-d14	44		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 12:43
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.5		mg/kg	0.042	0.025	1
Fluorene	5.0		mg/kg	0.21	0.020	1
Phenanthrene	12.	E	mg/kg	0.12	0.025	1
Anthracene	4.6		mg/kg	0.12	0.040	1
Pyrene	9.7	E	mg/kg	0.12	0.021	1
Benzo(a)anthracene	5.5		mg/kg	0.12	0.023	1
Chrysene	5.2		mg/kg	0.12	0.022	1
Benzo(b)fluoranthene	5.3		mg/kg	0.12	0.035	1
Benzo(a)pyrene	4.7		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	2.4		mg/kg	0.17	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	65		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03 D
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 01:17
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	21.		mg/kg	0.62	0.13	5
Pyrene	17.		mg/kg	0.62	0.10	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:06
Analyst: CMM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.045	0.028	1
Fluorene	3.1		mg/kg	0.23	0.022	1
Phenanthrene	10.	E	mg/kg	0.14	0.028	1
Anthracene	3.7		mg/kg	0.14	0.044	1
Pyrene	6.5		mg/kg	0.14	0.022	1
Benzo(a)anthracene	4.4		mg/kg	0.14	0.026	1
Chrysene	3.4		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	3.6		mg/kg	0.14	0.038	1
Benzo(a)pyrene	3.4		mg/kg	0.18	0.055	1
Benzo(ghi)perylene	1.5		mg/kg	0.18	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	67		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04 D
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 23:29
Analyst: SZ
Percent Solids: 73%

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	16.		mg/kg	0.68	0.14	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:29
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.1		mg/kg	0.040	0.024	1
Fluorene	0.14	J	mg/kg	0.20	0.019	1
Phenanthrene	0.28		mg/kg	0.12	0.024	1
Anthracene	0.39		mg/kg	0.12	0.038	1
Pyrene	2.7		mg/kg	0.12	0.020	1
Benzo(a)anthracene	3.0		mg/kg	0.12	0.022	1
Chrysene	2.5		mg/kg	0.12	0.020	1
Benzo(b)fluoranthene	3.5		mg/kg	0.12	0.033	1
Benzo(a)pyrene	3.2		mg/kg	0.16	0.048	1
Benzo(ghi)perylene	1.6		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:51
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.047	0.029	1
Fluorene	4.5		mg/kg	0.24	0.023	1
Phenanthrene	14.	E	mg/kg	0.14	0.029	1
Anthracene	4.2		mg/kg	0.14	0.046	1
Pyrene	9.8	E	mg/kg	0.14	0.023	1
Benzo(a)anthracene	4.2		mg/kg	0.14	0.026	1
Chrysene	4.4		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	3.5		mg/kg	0.14	0.040	1
Benzo(a)pyrene	3.4		mg/kg	0.19	0.058	1
Benzo(ghi)perylene	1.6		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	67		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06 D
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 00:41
Analyst: SZ
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	19.		mg/kg	0.71	0.14	5
Pyrene	13.		mg/kg	0.71	0.12	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:14
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.70		mg/kg	0.047	0.029	1
Fluorene	0.069	J	mg/kg	0.24	0.023	1
Phenanthrene	0.19		mg/kg	0.14	0.029	1
Anthracene	0.18		mg/kg	0.14	0.046	1
Pyrene	0.86		mg/kg	0.14	0.024	1
Benzo(a)anthracene	0.94		mg/kg	0.14	0.027	1
Chrysene	0.92		mg/kg	0.14	0.025	1
Benzo(b)fluoranthene	1.5		mg/kg	0.14	0.040	1
Benzo(a)pyrene	1.4		mg/kg	0.19	0.058	1
Benzo(ghi)perylene	0.94		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	51		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:36
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.7		mg/kg	0.042	0.026	1
Fluorene	6.7		mg/kg	0.21	0.021	1
Phenanthrene	22.	E	mg/kg	0.13	0.026	1
Anthracene	7.4		mg/kg	0.13	0.041	1
Pyrene	14.	E	mg/kg	0.13	0.021	1
Benzo(a)anthracene	8.1		mg/kg	0.13	0.024	1
Chrysene	6.8		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	7.0		mg/kg	0.13	0.036	1
Benzo(a)pyrene	6.3		mg/kg	0.17	0.052	1
Benzo(ghi)perylene	2.8		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	59		30-120
4-Terphenyl-d14	60		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08 D
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 16:10
Analyst: IM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	30.		mg/kg	1.3	0.26	10
Pyrene	16.		mg/kg	1.3	0.21	10

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:59
Analyst: CMM
Percent Solids: 62%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.9		mg/kg	0.053	0.032	1
Fluorene	1.2		mg/kg	0.26	0.026	1
Phenanthrene	1.1		mg/kg	0.16	0.032	1
Anthracene	0.90		mg/kg	0.16	0.051	1
Pyrene	5.4		mg/kg	0.16	0.026	1
Benzo(a)anthracene	4.0		mg/kg	0.16	0.030	1
Chrysene	3.7		mg/kg	0.16	0.027	1
Benzo(b)fluoranthene	4.4		mg/kg	0.16	0.044	1
Benzo(a)pyrene	4.0		mg/kg	0.21	0.064	1
Benzo(ghi)perylene	2.0		mg/kg	0.21	0.031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 15:22
Analyst: CMM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.3		mg/kg	0.040	0.024	1
Fluorene	2.7		mg/kg	0.20	0.020	1
Phenanthrene	7.2		mg/kg	0.12	0.024	1
Anthracene	2.3		mg/kg	0.12	0.039	1
Pyrene	4.4		mg/kg	0.12	0.020	1
Benzo(a)anthracene	2.9		mg/kg	0.12	0.023	1
Chrysene	2.4		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	2.7		mg/kg	0.12	0.034	1
Benzo(a)pyrene	2.3		mg/kg	0.16	0.049	1
Benzo(ghi)perylene	1.2		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**127**	Q	23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	70		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11 D
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 15:45
Analyst: CMM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.5		mg/kg	0.22	0.14	5
Fluorene	3.0		mg/kg	1.1	0.11	5
Phenanthrene	7.9		mg/kg	0.68	0.14	5
Anthracene	2.7		mg/kg	0.68	0.22	5
Pyrene	6.2		mg/kg	0.68	0.11	5
Benzo(a)anthracene	3.8		mg/kg	0.68	0.13	5
Chrysene	3.4		mg/kg	0.68	0.12	5
Benzo(b)fluoranthene	3.5		mg/kg	0.68	0.19	5
Benzo(a)pyrene	3.1		mg/kg	0.90	0.27	5
Benzo(ghi)perylene	1.7		mg/kg	0.90	0.13	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**182**	Q	23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	66		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12 D
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 16:07
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.84		mg/kg	0.21	0.13	5
Fluorene	1.4		mg/kg	1.0	0.10	5
Phenanthrene	3.9		mg/kg	0.63	0.13	5
Anthracene	1.2		mg/kg	0.63	0.20	5
Pyrene	2.6		mg/kg	0.63	0.10	5
Benzo(a)anthracene	0.79		mg/kg	0.63	0.12	5
Chrysene	1.4		mg/kg	0.63	0.11	5
Benzo(b)fluoranthene	0.70		mg/kg	0.63	0.18	5
Benzo(a)pyrene	0.66	J	mg/kg	0.84	0.26	5
Benzo(ghi)perylene	0.47	J	mg/kg	0.84	0.12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	35		30-120
4-Terphenyl-d14	35		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 13:21
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 18:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	73		15-120
4-Terphenyl-d14	62		41-149

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/24 10:49
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1913412-1					
Naphthalene	ND		mg/kg	0.033	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Pyrene	ND		mg/kg	0.099	0.016
Benzo(a)anthracene	ND		mg/kg	0.099	0.019
Chrysene	ND		mg/kg	0.099	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	86		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1913412-2 WG1913412-3								
Naphthalene	72		76		40-140	5		50
Fluorene	80		83		40-140	4		50
Phenanthrene	79		83		40-140	5		50
Anthracene	83		87		40-140	5		50
Pyrene	84		89		35-142	6		50
Benzo(a)anthracene	83		86		40-140	4		50
Chrysene	80		86		40-140	7		50
Benzo(b)fluoranthene	79		88		40-140	11		50
Benzo(a)pyrene	83		90		40-140	8		50
Benzo(ghi)perylene	80		86		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	75		83		23-120
2-Fluorobiphenyl	65		71		30-120
4-Terphenyl-d14	72		81		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	49.5		mg/kg	5.13	0.275	2	04/25/24 17:47	04/26/24 18:56	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	230		mg/kg	5.60	0.300	2	04/25/24 17:47	04/26/24 19:01	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	149		mg/kg	4.96	0.266	2	04/25/24 17:47	04/26/24 19:20	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	81.1		mg/kg	5.32	0.285	2	04/25/24 17:47	04/26/24 19:24	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	74.7		mg/kg	4.82	0.258	2	04/25/24 17:47	04/26/24 19:36	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Lab Number: L2422248
Project Number: 200.00135
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	142		mg/kg	5.56	0.298	2	04/25/24 17:47	04/26/24 19:41	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	109		mg/kg	5.50	0.295	2	04/25/24 17:47	04/26/24 19:45	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	80.6		mg/kg	5.05	0.270	2	04/25/24 17:47	04/26/24 19:50	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	174		mg/kg	6.34	0.340	2	04/25/24 17:47	04/26/24 19:54	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	77.0		mg/kg	4.74	0.254	2	04/25/24 17:47	04/26/24 19:59	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	84.2		mg/kg	5.20	0.278	2	04/25/24 17:47	04/26/24 20:03	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2090		mg/kg	4.91	0.263	2	04/25/24 08:00	04/27/24 19:07	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 12:09	EPA 3005A	1,6020B	NTB

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1913014-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 17:47	04/26/24 17:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12 Batch: WG1913016-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 08:00	04/25/24 10:19	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913362-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 11:55	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1913014-2								
Lead, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 12 Batch: WG1913016-2								
Lead, Total	103		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913362-2								
Lead, Total	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1913014-3 QC Sample: L2421961-04 Client ID: MS Sample												
Lead, Total	77.5	53.4	132	102		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1913016-3 QC Sample: L2422507-01 Client ID: MS Sample												
Lead, Total	64.4	50.9	119	107		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913362-3 QC Sample: L2419841-01 Client ID: MS Sample												
Lead, Total	ND	530	530.1	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1913014-4 QC Sample: L2421961-04 Client ID: DUP Sample						
Lead, Total	77.5	62.7	mg/kg	**21**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

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	75.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

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	70.4		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

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	78.7		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

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	73.0		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

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	82.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

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	69.4		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

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	68.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

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	62.2		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

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	82.0		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

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	72.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

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	78.7		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1912538-1 QC Sample: L2422248-01 Client ID: GPR225-01-SS01						
Solids, Total	75.8	75.8	%	0		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-01A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-01B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-01C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-01D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-01E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-01F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-02A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-02B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-02C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-02D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-02E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-02F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-03A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-03B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-03C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-03E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-03F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-04A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-04B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-04C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-04D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-04E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-04F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-05A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-05B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-05C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-05E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-05F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-06A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-06B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-06C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-06D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-06E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-06F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-07A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-07B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-07C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-07D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-07E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-07F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-08A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-08B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-08C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-08D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-08E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-08F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-09A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-09B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-09C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-09E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-09F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-10A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-10B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-10C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-10E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-10F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-11A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-11B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-11C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-11E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-11F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-12A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-12B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-12C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-12D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-12E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-12F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-13A	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-13B	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-13C	Vial HCl preserved	A	NA		3.0	Y	Absent		8011(14)
L2422248-13D	Amber 250ml unpreserved	A	7	7	3.0	Y	Absent		PA-PAHSIM-LVI(7)
L2422248-13E	Amber 250ml unpreserved	A	7	7	3.0	Y	Absent		PA-PAHSIM-LVI(7)
L2422248-13F	Plastic 250ml HNO3 preserved	A	<2	<2	3.0	Y	Absent		PB-6020T-PPB(180)

*Values in parentheses indicate holding time in days

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Report Date: 04/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-14A	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-14B	Vial HCl preserved	A	NA		3.0	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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

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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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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

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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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2422248
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REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 4/24/24

ALPHA Job #: L2422248

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: William.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials		Sample Specific Comments	TOTAL # BOTTLES
22748-01	GPR225-01-5501	4/23/24	9:35	S	ND	X		6
02	GPR225-02-5501		9:55			X		6
03	GPR225-03-5501		10:20			X		6
04	GPR225-04-5501		9:10			X		6
05	GPR225-05-5501		12:05			X		6
06	GPR225-06-5501		8:45			X		6
07	GPR225-07-5501		8:25			X		6
08	GPR225-08-5501		8:00			X		6
09	GPR225-09-5501		11:35			X		6
10	GPR225-10-5501		10:35			X		6

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/23/24 14:55		4-23-24 1455
	4-23-24 1800		4/23/24 1800
	4/23/24 2100		APR 23 2024 2112
Anthony Green	4/24/24 0100	Anthony Green	4/24/24 0100

Rec'd 4/24/24 0315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 4/24/24

ALPHA Job #: L2422248

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS	Sample Specific Comments	TOTAL # BOTTLES
22248-11	GPR225-11-5501	4/23/24	11:00	S	MD	X		6
12	GPR225-12-5501	↓	11:15	↓	↓	X		6
13	FB-240423	↓	12:30	Wtr	↓	X		6
14	TB-240423	4/23/24		Wtr		X		2

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Nathan Dill	4/23/24 14:55	Nelson T	4-23-24 1455
Nelson T	4-23-24 1800		4/23/24 1800
Anthony Green	4/23/24 2100	Anthony Green	APR 23 2024 2142
Anthony Green	4/24/24 0100		4/24/24 0100

2e1 4/27/24 0315
4/24/24 0315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products

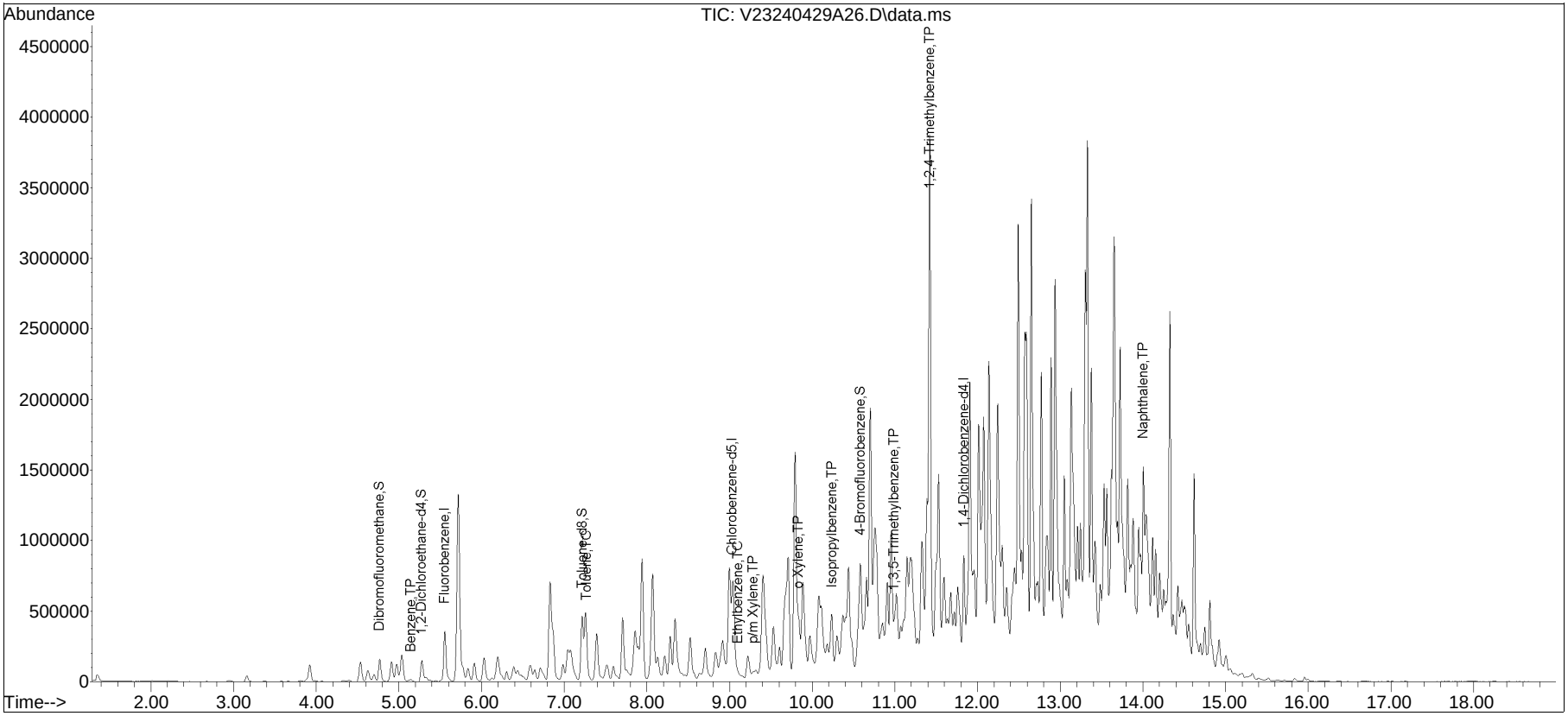
PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Leaded Gasoline, Aviation Gasoline, and Jet Fuel 1	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2- Dibromide)	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2-(Ethylene	EPA Method 5030B/8021B, 5030B/8260B or 524.2 EPA Method 8011 or 504.1
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Unleaded Gasoline 2	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Kerosene, Fuel Oil No. 1 3	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Diesel Fuel, Fuel Oil No. 2 4	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2

Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240429A\
Data File : V23240429A26.D
Acq On : 29 Apr 2024 07:18 pm
Operator : VOA123:AJK
Sample : L2422248-10D,31H,5.69,5,0.01,,A
Misc : WG1914739,ICAL20839
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 30 07:51:47 2024
Quant Method : K:\VOA123\2024\240429A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

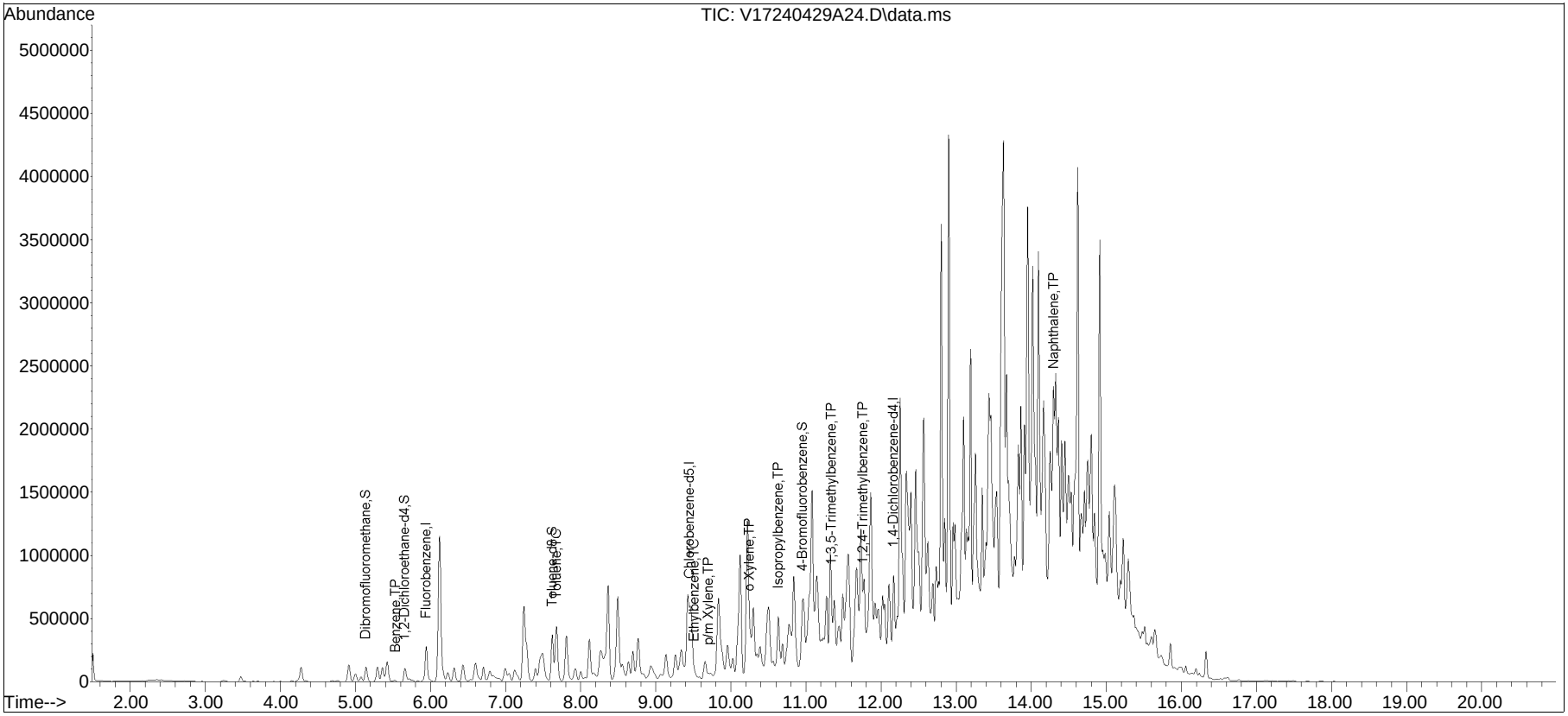


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A24.D
Acq On : 29 Apr 2024 06:58 pm
Operator : VOA117:JIC
Sample : l2422248-11,31h,5.9,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 30 08:39:47 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

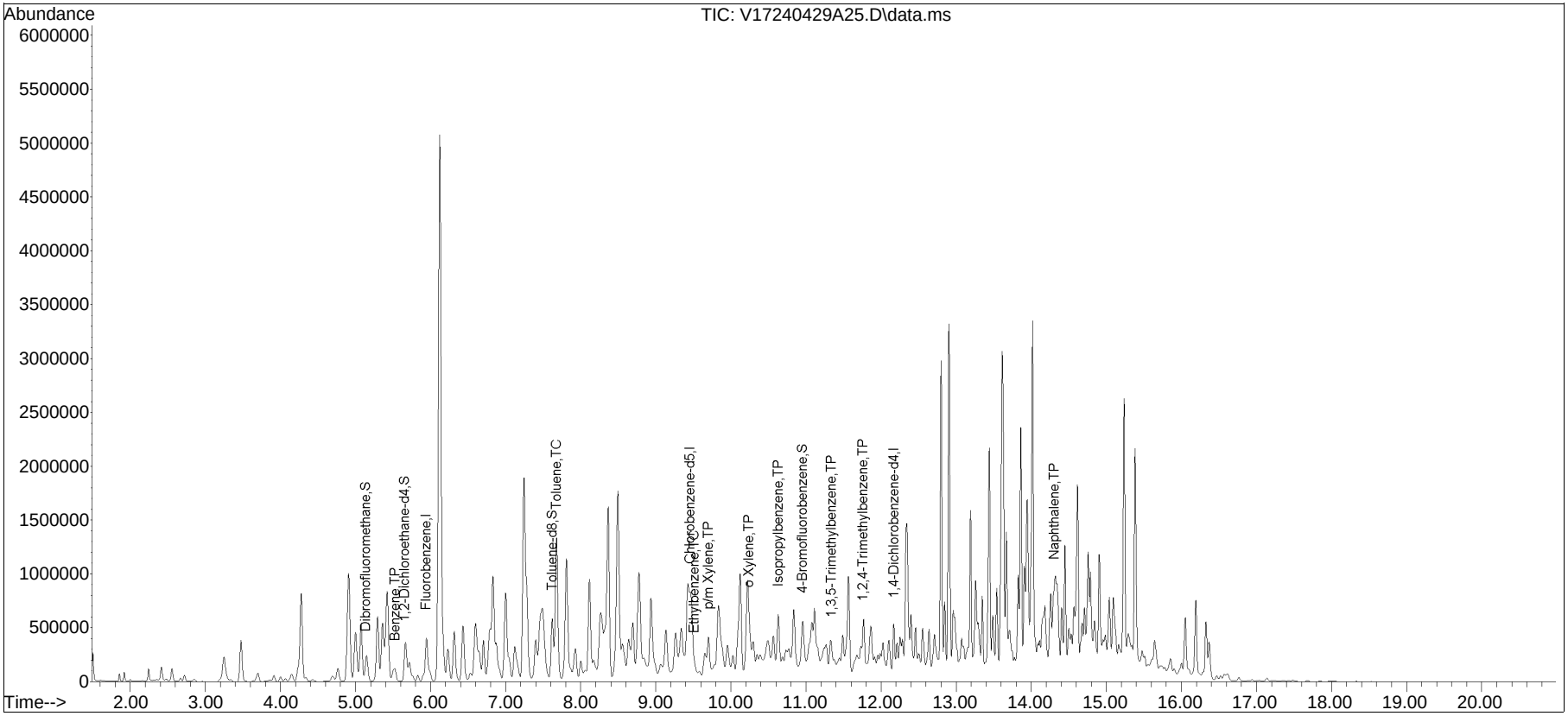


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A25.D
Acq On : 29 Apr 2024 07:25 pm
Operator : VOA117:JIC
Sample : l2422248-12,31h,3.92,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 30 08:40:03 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•



ANALYTICAL REPORT

Lab Number:	L2422575
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	05/01/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422575-01	GPR227-01-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:00	04/24/24
L2422575-02	GPR227-02-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:25	04/24/24
L2422575-03	GPR227-03-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:50	04/24/24
L2422575-04	GPR227-04-SS01	SOIL	PHILADELPHIA, PA	04/24/24 10:45	04/24/24
L2422575-05	GPR227-05-SS01	SOIL	PHILADELPHIA, PA	04/24/24 12:25	04/24/24
L2422575-06	GPR227-06-SS01	SOIL	PHILADELPHIA, PA	04/24/24 10:25	04/24/24
L2422575-07	GPR227-07-SS01	SOIL	PHILADELPHIA, PA	04/24/24 09:55	04/24/24
L2422575-08	GPR227-08-SS01	SOIL	PHILADELPHIA, PA	04/24/24 12:50	04/24/24
L2422575-09	GPR227-09-SS01	SOIL	PHILADELPHIA, PA	04/24/24 13:40	04/24/24
L2422575-10	GPR227-10-SS01	SOIL	PHILADELPHIA, PA	04/24/24 14:20	04/24/24
L2422575-11	GPR227-11-SS01	SOIL	PHILADELPHIA, PA	04/24/24 14:00	04/24/24
L2422575-12	GPR227-12-SS01	SOIL	PHILADELPHIA, PA	04/24/24 13:15	04/24/24
L2422575-13	FB-240424	WATER	PHILADELPHIA, PA	04/24/24 12:00	04/24/24
L2422575-14	TB-240424	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/24/24

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2422575-01, -10, and -12: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries for the following samples are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with obvious interferences. Copies of the chromatograms are included as an attachment to this report:

L2422575-01: 152%

L2422575-03: 142%

L2422575-10: 140%

L2422575-12: 143%

L2422575-05: The internal standard (IS) responses for fluorobenzene (48%), chlorobenzene-d5 (38%), and 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (275%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (37%), toluene-d8 (148%), and 4-bromofluorobenzene (1190%). The results of both analyses are reported; however, since the IS responses were below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L2422575-07: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (245%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (35%) and 4-bromofluorobenzene (428%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L2422575-09: The internal standard (IS) response for and 1,4-dichlorobenzene-d4 (27%) and the surrogate recovery for toluene-d8 (134%) and 4-bromofluorobenzene (254%) were outside the acceptance criteria;

Project Name: PES REFINERY **Lab Number:** L2422575
Project Number: 200.00135 **Report Date:** 05/01/24

Case Narrative (continued)

however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (41%) and 4-bromofluorobenzene (179%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.
L2422575-11: The internal standard (IS) responses for chlorobenzene-d5 (48%) and 1,4-dichlorobenzene-d4 (20%) and the surrogate recoveries for toluene-d8 (139%) and 4-bromofluorobenzene (213%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (43%), 1,4-dichlorobenzene-d4 (16%), toluene-d8 (151%), and 4-bromofluorobenzene (449%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

Microextractables
L2422575-13 and -14: The sample was not appropriately preserved. With the client's authorizatoin, the analysis was performed on an HCl preserved vial.
The WG1914111-2 LCS recovery for 1,2-dibromoethane (130%), associated with L2422575-13 and -14, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

PAHs
L2422575-01, -05, -07, and -09: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.
L2422575-01, -07, and -11: The sample has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

Total Metals
L2422575-01 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 05/01/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:05
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.16	0.016	1
Benzene	0.022	J	mg/kg	0.040	0.013	1
1,2-Dichloroethane	ND		mg/kg	0.080	0.020	1
Toluene	0.16		mg/kg	0.080	0.043	1
1,2-Dibromoethane	ND		mg/kg	0.040	0.023	1
Ethylbenzene	0.079	J	mg/kg	0.080	0.011	1
p/m-Xylene	0.28		mg/kg	0.16	0.045	1
o-Xylene	0.31		mg/kg	0.080	0.023	1
Xylenes, Total	0.59		mg/kg	0.080	0.023	1
Isopropylbenzene	0.45		mg/kg	0.080	0.0087	1
1,3,5-Trimethylbenzene	0.26		mg/kg	0.16	0.015	1
1,2,4-Trimethylbenzene	1.1		mg/kg	0.16	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**152**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 13:36
Analyst: RAW
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00026	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Toluene	ND		mg/kg	0.0013	0.00069	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00071	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0025	0.00042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:39
Analyst: JIC
Percent Solids: 88%

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	0.00015	J	mg/kg	0.00046	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00092	0.00024	1
Toluene	0.00075	J	mg/kg	0.00092	0.00050	1
1,2-Dibromoethane	ND		mg/kg	0.00046	0.00027	1
Ethylbenzene	ND		mg/kg	0.00092	0.00013	1
p/m-Xylene	0.00076	J	mg/kg	0.0018	0.00052	1
o-Xylene	0.0025		mg/kg	0.00092	0.00027	1
Xylenes, Total	0.0033	J	mg/kg	0.00092	0.00027	1
Isopropylbenzene	0.00038	J	mg/kg	0.00092	0.00010	1
1,3,5-Trimethylbenzene	0.00030	J	mg/kg	0.0018	0.00018	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0018	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	**142**	Q	70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:02
Analyst: RAW
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0022	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 16:38
Analyst: RAW
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	0.0012	J	mg/kg	0.0021	0.00058	1
o-Xylene	0.0029		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.0041	J	mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.0032		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.0028		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	**275**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05 R
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:02
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	0.00068	J	mg/kg	0.0011	0.00059	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	0.00025	J	mg/kg	0.0011	0.00015	1
p/m-Xylene	0.0019	J	mg/kg	0.0022	0.00061	1
o-Xylene	0.0032		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.0051	J	mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.0041		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00039	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.0018	J	mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	**148**	Q	70-130
4-Bromofluorobenzene	**1190**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:54
Analyst: RAW
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 15:46
Analyst: RAW
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	0.00032	J	mg/kg	0.00055	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	0.0010	J	mg/kg	0.0011	0.00060	1
1,2-Dibromoethane	ND		mg/kg	0.00055	0.00032	1
Ethylbenzene	0.00052	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0058		mg/kg	0.0022	0.00062	1
o-Xylene	0.042		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.048		mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.047		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0010	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.019		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	**245**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07 R
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:28
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
Benzene	0.00023	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00030	1
Toluene	0.00098	J	mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00034	1
Ethylbenzene	0.00046	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0056		mg/kg	0.0023	0.00064	1
o-Xylene	0.029		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.035		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.037		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00055	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.011		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	**428**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:28
Analyst: RAW
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00057	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Isopropylbenzene	0.00023	J	mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 15:20
Analyst: RAW
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	0.0021	0.00021	1
Benzene	0.00037	J	mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	0.00068	J	mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	0.00061	J	mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0071		mg/kg	0.0021	0.00058	1
o-Xylene	0.0068		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.014		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.017		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.010		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.020		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	**134**	Q	70-130
4-Bromofluorobenzene	**254**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09 R
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:53
Analyst: AJK
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	0.0023	0.00023	1
Benzene	0.00022	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	ND		mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
Ethylbenzene	0.00045	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0046		mg/kg	0.0023	0.00064	1
o-Xylene	0.0046		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0092		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.0083		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0073		mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.017		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	**179**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 17:04
Analyst: RAW
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	ND		mg/kg	0.030	0.010	1
1,2-Dichloroethane	ND		mg/kg	0.060	0.015	1
Toluene	ND		mg/kg	0.060	0.032	1
1,2-Dibromoethane	ND		mg/kg	0.030	0.018	1
Ethylbenzene	0.014	J	mg/kg	0.060	0.0085	1
p/m-Xylene	0.045	J	mg/kg	0.12	0.034	1
o-Xylene	0.018	J	mg/kg	0.060	0.017	1
Xylenes, Total	0.063	J	mg/kg	0.060	0.017	1
Isopropylbenzene	0.67		mg/kg	0.060	0.0065	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.12	0.012	1
1,2,4-Trimethylbenzene	0.031	J	mg/kg	0.12	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	**140**	Q	70-130
Dibromofluoromethane	89		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 16:12
Analyst: RAW
Percent Solids: 87%

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	0.0025		mg/kg	0.00045	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00090	0.00023	1
Toluene	0.011		mg/kg	0.00090	0.00049	1
1,2-Dibromoethane	ND		mg/kg	0.00045	0.00026	1
Ethylbenzene	0.0080		mg/kg	0.00090	0.00013	1
p/m-Xylene	0.021		mg/kg	0.0018	0.00050	1
o-Xylene	0.018		mg/kg	0.00090	0.00026	1
Xylenes, Total	0.039		mg/kg	0.00090	0.00026	1
Isopropylbenzene	0.018		mg/kg	0.00090	0.00009	1
1,3,5-Trimethylbenzene	0.014		mg/kg	0.0018	0.00017	1
1,2,4-Trimethylbenzene	0.046		mg/kg	0.0018	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	**139**	Q	70-130
4-Bromofluorobenzene	**213**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11 R
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 11:19
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	0.0022		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	0.014		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	0.011		mg/kg	0.0010	0.00015	1
p/m-Xylene	0.029		mg/kg	0.0021	0.00058	1
o-Xylene	0.024		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.053		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.027		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.020		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.062		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	**151**	Q	70-130
4-Bromofluorobenzene	**449**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 17:30
Analyst: RAW
Percent Solids: 87%

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	0.031	J	mg/kg	0.032	0.011	1
1,2-Dichloroethane	ND		mg/kg	0.064	0.016	1
Toluene	ND		mg/kg	0.064	0.035	1
1,2-Dibromoethane	ND		mg/kg	0.032	0.019	1
Ethylbenzene	0.012	J	mg/kg	0.064	0.0090	1
p/m-Xylene	0.050	J	mg/kg	0.13	0.036	1
o-Xylene	0.042	J	mg/kg	0.064	0.019	1
Xylenes, Total	0.092	J	mg/kg	0.064	0.019	1
Isopropylbenzene	0.74		mg/kg	0.064	0.0070	1
1,3,5-Trimethylbenzene	0.027	J	mg/kg	0.13	0.012	1
1,2,4-Trimethylbenzene	0.053	J	mg/kg	0.13	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**143**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:35
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/29/24 22:54
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-14
Client ID: TB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:43
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-14
Client ID: TB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/29/24 23:19
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/27/24 14:46
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1914111-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1915050-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1915057-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,04-09,11 Batch: WG1915175-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 20:22
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1915248-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 10,12 Batch: WG1915548-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/01/24 09:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,07,09,11 Batch: WG1915792-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1914111-2								
1,2-Dibromoethane	**130**	Q	-		80-120	-		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1915050-3 WG1915050-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1915057-3 WG1915057-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04-09,11 Batch: WG1915175-3 WG1915175-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1915248-3 WG1915248-4								
Methyl tert butyl ether	73		72		63-130	1		20
Benzene	98		94		70-130	4		20
1,2-Dichloroethane	86		83		70-130	4		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		97		70-130	3		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
Isopropylbenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		96		64-130	4		20
1,2,4-Trimethylbenzene	91		88		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	83		82		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 10,12 Batch: WG1915548-3 WG1915548-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,07,09,11 Batch: WG1915792-3 WG1915792-4								
Methyl tert butyl ether	88		87		66-130	1		30
Benzene	97		96		70-130	1		30
1,2-Dichloroethane	88		88		70-130	0		30
Toluene	98		98		70-130	0		30
Ethylbenzene	101		101		70-130	0		30
p/m-Xylene	101		102		70-130	1		30
o-Xylene	97		98		70-130	1		30
Isopropylbenzene	104		103		70-130	1		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	99		93		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 11:28
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.8		mg/kg	0.23	0.14	2
Fluorene	5.4		mg/kg	1.1	0.11	2
Phenanthrene	19.		mg/kg	0.68	0.14	2
Anthracene	5.8		mg/kg	0.68	0.22	2
Pyrene	18.		mg/kg	0.68	0.11	2
Benzo(a)anthracene	12.		mg/kg	0.68	0.13	2
Chrysene	12.		mg/kg	0.68	0.12	2
Benzo(b)fluoranthene	15.		mg/kg	0.68	0.19	2
Benzo(a)pyrene	14.		mg/kg	0.91	0.28	2
Benzo(ghi)perylene	7.4		mg/kg	0.91	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	64		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 11:51
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.073		mg/kg	0.047	0.028	1
Fluorene	ND		mg/kg	0.23	0.023	1
Phenanthrene	ND		mg/kg	0.14	0.028	1
Anthracene	ND		mg/kg	0.14	0.046	1
Pyrene	0.11	J	mg/kg	0.14	0.023	1
Benzo(a)anthracene	0.11	J	mg/kg	0.14	0.026	1
Chrysene	0.096	J	mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	0.15		mg/kg	0.14	0.039	1
Benzo(a)pyrene	0.12	J	mg/kg	0.19	0.057	1
Benzo(ghi)perylene	0.065	J	mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	63		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 12:14
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.0		mg/kg	0.038	0.023	1
Fluorene	1.3		mg/kg	0.19	0.018	1
Phenanthrene	3.3		mg/kg	0.11	0.023	1
Anthracene	2.0		mg/kg	0.11	0.036	1
Pyrene	5.3		mg/kg	0.11	0.019	1
Benzo(a)anthracene	4.1		mg/kg	0.11	0.021	1
Chrysene	3.8		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	5.2		mg/kg	0.11	0.032	1
Benzo(a)pyrene	4.4		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	2.3		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 12:38
Analyst: CMM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.7		mg/kg	0.040	0.025	1
Fluorene	0.47		mg/kg	0.20	0.020	1
Phenanthrene	1.8		mg/kg	0.12	0.025	1
Anthracene	0.86		mg/kg	0.12	0.040	1
Pyrene	4.9		mg/kg	0.12	0.020	1
Benzo(a)anthracene	4.2		mg/kg	0.12	0.023	1
Chrysene	3.7		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	5.6		mg/kg	0.12	0.034	1
Benzo(a)pyrene	4.5		mg/kg	0.16	0.049	1
Benzo(ghi)perylene	2.2		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:01
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.56		mg/kg	0.10	0.064	1
Fluorene	2.4		mg/kg	0.52	0.051	1
Phenanthrene	6.4		mg/kg	0.31	0.064	1
Anthracene	3.0		mg/kg	0.31	0.10	1
Pyrene	6.3		mg/kg	0.31	0.052	1
Benzo(a)anthracene	3.0		mg/kg	0.31	0.059	1
Chrysene	3.7		mg/kg	0.31	0.054	1
Benzo(b)fluoranthene	3.3		mg/kg	0.31	0.088	1
Benzo(a)pyrene	3.1		mg/kg	0.42	0.13	1
Benzo(ghi)perylene	2.0		mg/kg	0.42	0.062	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:24
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.81		mg/kg	0.042	0.025	1
Fluorene	0.51		mg/kg	0.21	0.020	1
Phenanthrene	2.2		mg/kg	0.12	0.025	1
Anthracene	0.62		mg/kg	0.12	0.041	1
Pyrene	2.5		mg/kg	0.12	0.021	1
Benzo(a)anthracene	1.4		mg/kg	0.12	0.023	1
Chrysene	1.7		mg/kg	0.12	0.022	1
Benzo(b)fluoranthene	1.6		mg/kg	0.12	0.035	1
Benzo(a)pyrene	1.4		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	0.96		mg/kg	0.17	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	41		23-120
2-Fluorobiphenyl	45		30-120
4-Terphenyl-d14	40		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:47
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.5		mg/kg	0.23	0.14	2
Fluorene	4.2		mg/kg	1.2	0.11	2
Phenanthrene	15.		mg/kg	0.70	0.14	2
Anthracene	4.2		mg/kg	0.70	0.23	2
Pyrene	9.5		mg/kg	0.70	0.12	2
Benzo(a)anthracene	4.3		mg/kg	0.70	0.13	2
Chrysene	5.7		mg/kg	0.70	0.12	2
Benzo(b)fluoranthene	3.4		mg/kg	0.70	0.20	2
Benzo(a)pyrene	3.5		mg/kg	0.93	0.28	2
Benzo(ghi)perylene	1.6		mg/kg	0.93	0.14	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	43		30-120
4-Terphenyl-d14	35		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:11
Analyst: CMM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	5.0		mg/kg	0.041	0.025	1
Fluorene	11.	E	mg/kg	0.20	0.020	1
Phenanthrene	44.	E	mg/kg	0.12	0.025	1
Anthracene	6.3		mg/kg	0.12	0.040	1
Pyrene	32.	E	mg/kg	0.12	0.020	1
Benzo(a)anthracene	22.	E	mg/kg	0.12	0.023	1
Chrysene	16.	E	mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	24.	E	mg/kg	0.12	0.035	1
Benzo(a)pyrene	19.	E	mg/kg	0.16	0.050	1
Benzo(ghi)perylene	7.1		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	54		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08 D
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/01/24 10:49
Analyst: IM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluorene	11.		mg/kg	4.1	0.40	20
Phenanthrene	44.		mg/kg	2.5	0.50	20
Pyrene	34.		mg/kg	2.5	0.41	20
Benzo(a)anthracene	21.		mg/kg	2.5	0.46	20
Chrysene	16.		mg/kg	2.5	0.43	20
Benzo(b)fluoranthene	19.		mg/kg	2.5	0.69	20
Benzo(a)pyrene	17.		mg/kg	3.3	1.0	20

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:34
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.12	0.071	1
Fluorene	1.8		mg/kg	0.58	0.057	1
Phenanthrene	11.		mg/kg	0.35	0.071	1
Anthracene	3.3		mg/kg	0.35	0.11	1
Pyrene	14.		mg/kg	0.35	0.058	1
Benzo(a)anthracene	8.4		mg/kg	0.35	0.066	1
Chrysene	10.		mg/kg	0.35	0.061	1
Benzo(b)fluoranthene	7.0		mg/kg	0.35	0.098	1
Benzo(a)pyrene	6.8		mg/kg	0.47	0.14	1
Benzo(ghi)perylene	3.2		mg/kg	0.47	0.068	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	43		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:57
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.72		mg/kg	0.037	0.023	1
Fluorene	2.4		mg/kg	0.19	0.018	1
Phenanthrene	2.2		mg/kg	0.11	0.023	1
Anthracene	0.74		mg/kg	0.11	0.036	1
Pyrene	2.1		mg/kg	0.11	0.018	1
Benzo(a)anthracene	2.1		mg/kg	0.11	0.021	1
Chrysene	1.9		mg/kg	0.11	0.019	1
Benzo(b)fluoranthene	2.8		mg/kg	0.11	0.031	1
Benzo(a)pyrene	2.5		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	1.2		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 15:21
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	4.3		mg/kg	0.075	0.046	2
Fluorene	1.2		mg/kg	0.37	0.036	2
Phenanthrene	5.1		mg/kg	0.22	0.045	2
Anthracene	2.2		mg/kg	0.22	0.073	2
Pyrene	10.		mg/kg	0.22	0.037	2
Benzo(a)anthracene	8.2		mg/kg	0.22	0.042	2
Chrysene	8.1		mg/kg	0.22	0.039	2
Benzo(b)fluoranthene	8.6		mg/kg	0.22	0.063	2
Benzo(a)pyrene	7.7		mg/kg	0.30	0.091	2
Benzo(ghi)perylene	3.3		mg/kg	0.30	0.044	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	71		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 15:44
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.1		mg/kg	0.038	0.023	1
Fluorene	2.6		mg/kg	0.19	0.018	1
Phenanthrene	6.6		mg/kg	0.11	0.023	1
Anthracene	1.8		mg/kg	0.11	0.037	1
Pyrene	5.9		mg/kg	0.11	0.019	1
Benzo(a)anthracene	4.1		mg/kg	0.11	0.021	1
Chrysene	3.7		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	5.2		mg/kg	0.11	0.032	1
Benzo(a)pyrene	3.8		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	1.5		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	42		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 12:35
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 18:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	76		15-120
4-Terphenyl-d14	80		41-149

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/27/24 07:57
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/26/24 20:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1914010-1					
Naphthalene	ND		mg/kg	0.033	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Pyrene	ND		mg/kg	0.099	0.016
Benzo(a)anthracene	ND		mg/kg	0.099	0.018
Chrysene	ND		mg/kg	0.099	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	76		18-120

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1914010-2 WG1914010-3								
Naphthalene	72		69		40-140	4		50
Fluorene	72		73		40-140	1		50
Phenanthrene	73		73		40-140	0		50
Anthracene	74		75		40-140	1		50
Pyrene	77		77		35-142	0		50
Benzo(a)anthracene	76		76		40-140	0		50
Chrysene	78		78		40-140	0		50
Benzo(b)fluoranthene	83		83		40-140	0		50
Benzo(a)pyrene	84		83		40-140	1		50
Benzo(ghi)perylene	76		76		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		70		25-120
Phenol-d6	74		72		10-120
Nitrobenzene-d5	73		70		23-120
2-Fluorobiphenyl	72		70		30-120
2,4,6-Tribromophenol	74		72		10-136
4-Terphenyl-d14	69		67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	162		mg/kg	4.55	0.244	2	04/30/24 07:20	04/30/24 21:43	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	14.6		mg/kg	5.45	0.292	2	04/30/24 07:20	04/30/24 20:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	74.6		mg/kg	4.38	0.235	2	04/30/24 07:20	04/30/24 21:47	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	48.5		mg/kg	4.82	0.258	2	04/30/24 07:20	04/30/24 21:52	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	32.1		mg/kg	4.35	0.233	2	04/30/24 07:20	04/30/24 21:56	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	497		mg/kg	4.97	0.266	2	04/30/24 07:20	04/30/24 22:01	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	114		mg/kg	4.92	0.264	2	04/30/24 07:20	04/30/24 22:05	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	92.5		mg/kg	4.95	0.265	2	04/30/24 07:20	04/30/24 19:14	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	118		mg/kg	4.69	0.252	2	04/30/24 07:20	04/30/24 19:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	49.3		mg/kg	4.27	0.229	2	04/30/24 07:20	04/30/24 19:23	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	55.4		mg/kg	4.42	0.237	2	04/30/24 07:20	04/30/24 22:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	30.2		mg/kg	4.52	0.242	2	04/30/24 07:20	04/30/24 22:23	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/30/24 14:58	EPA 3005A	1,6020B	EJF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913362-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 11:55	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1913879-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/30/24 07:20	04/30/24 20:10	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913362-2								
Lead, Total	94		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1913879-2								
Lead, Total	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913362-3 QC Sample: L2419841-01 Client ID: MS Sample												
Lead, Total	ND	530	530.1	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1913879-3 QC Sample: L2422575-02 Client ID: GPR227-02-SS01												
Lead, Total	14.6	57.6	75.7	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1913879-4 QC Sample: L2422575-02 Client ID: GPR227-02-SS01						
Lead, Total	14.6	14.3	mg/kg	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

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	84.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

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	69.3		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

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	88.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

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	81.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

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	89.0		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

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	78.8		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

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	78.2		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

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	79.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

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	82.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

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	88.9		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

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	87.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

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	86.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1913152-1 QC Sample: L2422575-01 Client ID: GPR227-01-SS01						
Solids, Total	84.4	83.8	%	1		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-01A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-01B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-01C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-01D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-01F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-02A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-02B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-02C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-02D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-02F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-03A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-03B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-03C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-03D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-03F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-04A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-04B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-04C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-04D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-04F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-05A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-05B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-05C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-05D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-05F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-06A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-06B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-06C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-06D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-06F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-07A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-07B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-07C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-07D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-07F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-08A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-08B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-08C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-08D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-08F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-09A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-09B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-09C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-09D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-09E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-09F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-10A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-10B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-10C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-10D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-10F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-11A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-11B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-11C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-11D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-11F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-12A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-12B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-12C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-12D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-12F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-13A	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-13B	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-13C	Vial HCl preserved	B	NA		3.5	Y	Absent		8011(14)
L2422575-13D	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		PB-6020T-PPB(180)
L2422575-13E	Amber 250ml unpreserved	B	NA		3.5	Y	Absent		PA-PAHSIM-LVI(7)
L2422575-13F	Amber 250ml unpreserved	B	NA		3.5	Y	Absent		PA-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-14A	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-14B	Vial HCl preserved	B	NA		3.5	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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

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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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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

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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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 4/25/24

ALPHA Job #: L2422575

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Short List 1-5	Sample Specific Comments	TOTAL # BOTTLES
22575-01	GPR227-01-5501	4/24/24	11:00	S	NJD	X		6
02	GPR227-02-5501		11:25			X		6
03	GPR227-03-5501		11:50			X		6
04	GPR227-04-5501		12:45			X		6
05	GPR227-05-5501		12:25			X		6
06	GPR227-06-5501		10:25			X		6
07	GPR227-07-5501		9:55			X		6
08	GPR227-08-5501		12:50			X		6
09	GPR227-09-5501		13:40			X		6
10	GPR227-10-5501		14:20			X		6

Rec: 4/25/24 0325
4/25/24 0325

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
	4/24/24 15:45		4/24/24 16:18
	4/24/24 1800		4/24/24 1800
	4/24/24 2100	Anthony Green	APR 24 2024 2220
Anthony Green	4/25/24 0325		4/25/24 0325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 4/25/24

ALPHA Job #: L2422575

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 202,00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Short List 1-5 (see attached)	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
22575-01	GPR227-11-5501	4/24/24	14:00	S	ND	X			6
02	GPR227-12-5501	↓	13:15	↓	↓	X			6
03	FB-240424	↓	12:00	blank	↓	X			6
04	TB-240424	4/24/24		blank		X			2

Rel: 362 4/25/24 0325
4/25/24 0325

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Michael Daniel	4/24/24 15:45		4/24/24 16:18
	4/24/24 1800		4/24/24 2000
Anthony Green	4/25/24 0125	Anthony Green APR 24 2024	4/25/24 0125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Leaded Gasoline, Aviation Gasoline, and Jet Fuel 1	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2- Dibromide)	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
			Dibromoethane, 1,2-(Ethylene	EPA Method 8011 or 504.1
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Unleaded Gasoline 2	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Kerosene, Fuel Oil No. 1 3	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Diesel Fuel, Fuel Oil No. 2 4	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2

Table III-5: Short List of Petroleum Products (cont.)

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Fuel Oil Nos. 4, 5 and 6, and Lubricating Oils and Fluids 5	Benzene Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Fluorene Anthracene Phenanthrene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Phenanthrene Pyrene Chrysene	EPA Method 8270C, 8310 or 525.2
Used Motor Oil 6	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 525.2
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Mineral Insulating Oil	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082 or 508A
	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,2,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8021B or 5035/8260B	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,2,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
Other Petroleum Product Blended Petroleum Products Unknown Petroleum Products Other Regulated Substances	Contact the DEP Regional Office responsible for the county in which the tank is located.			

[1] Samples from potable water supplies must be analyzed using a method applicable to drinking water.

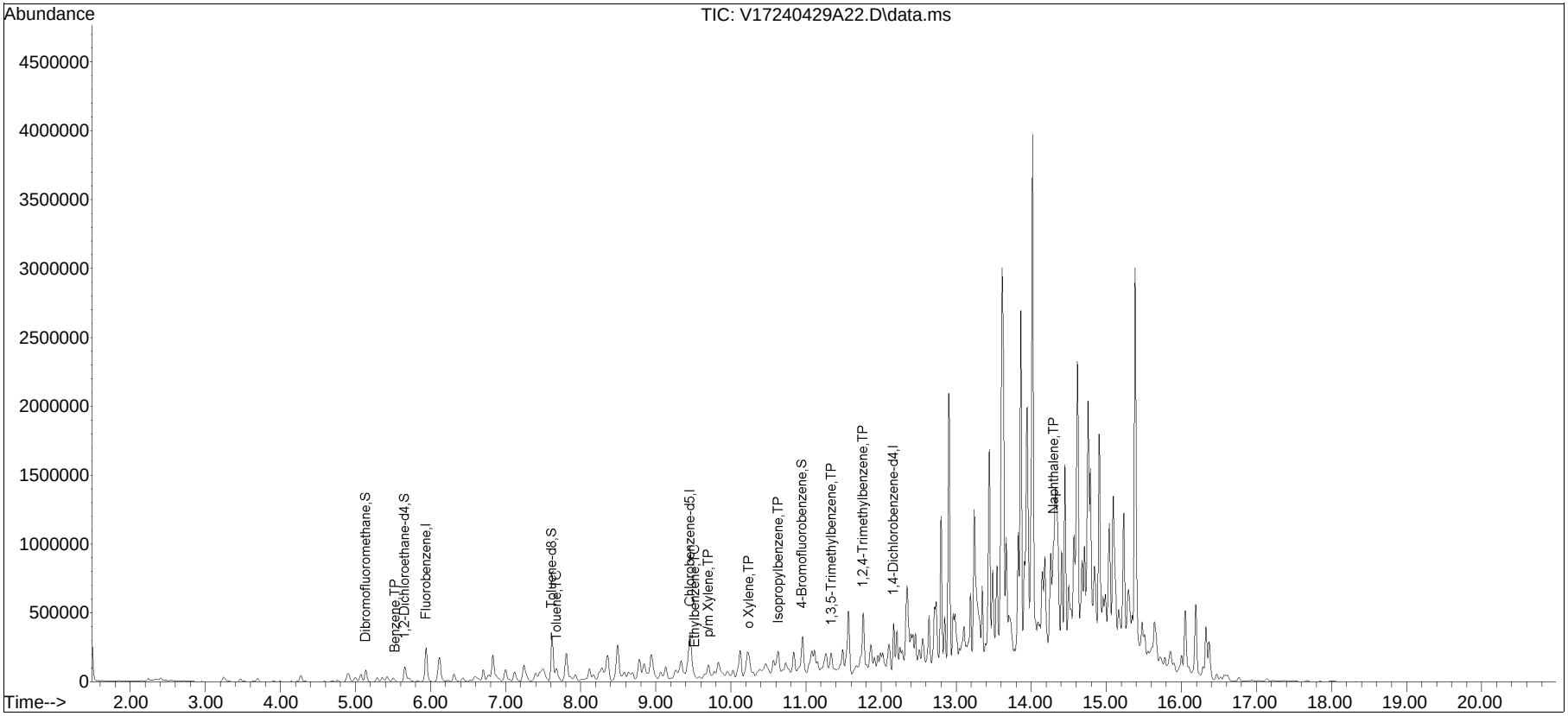
Notes:
When reporting nondetects (ND), the data must be accompanied by a numerical quantitation limit that takes into account dilution, sample preparation, and matrix effects.
The responsible party has the obligation to ensure that the analytical methodologies and techniques employed are suitable to provide data that meets the minimal data quality objectives outlined and referenced in this document.
Laboratories must document that samples meet all applicable preservation requirements.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A22.D
Acq On : 29 Apr 2024 06:05 pm
Operator : VOA117:JIC
Sample : l2422575-01,31h,4.20,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 30 08:39:06 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

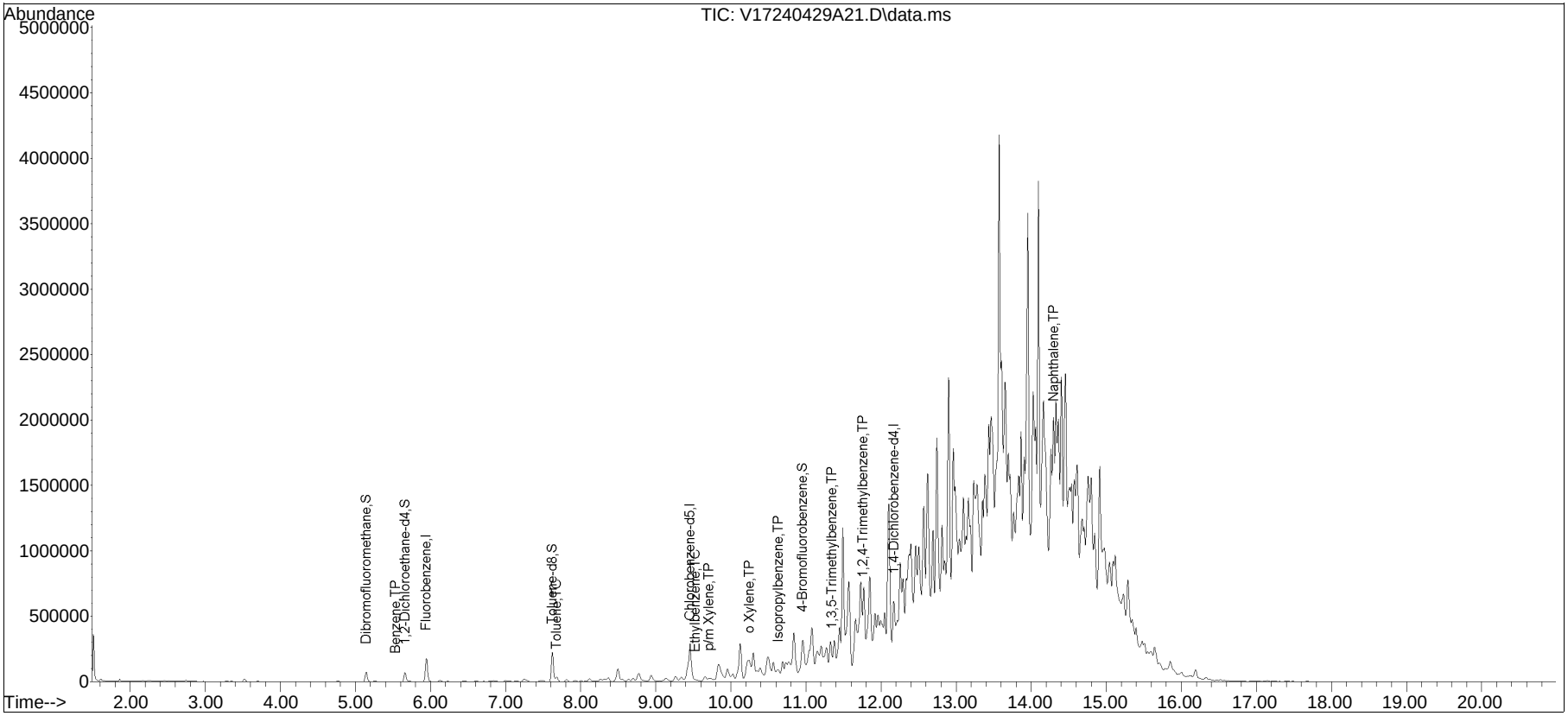


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A21.D
Acq On : 29 Apr 2024 05:39 pm
Operator : VOA117:JIC
Sample : l2422575-03,31,6.12,5,,b
Misc : WG1915050,ICAL20984
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 07:54:46 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

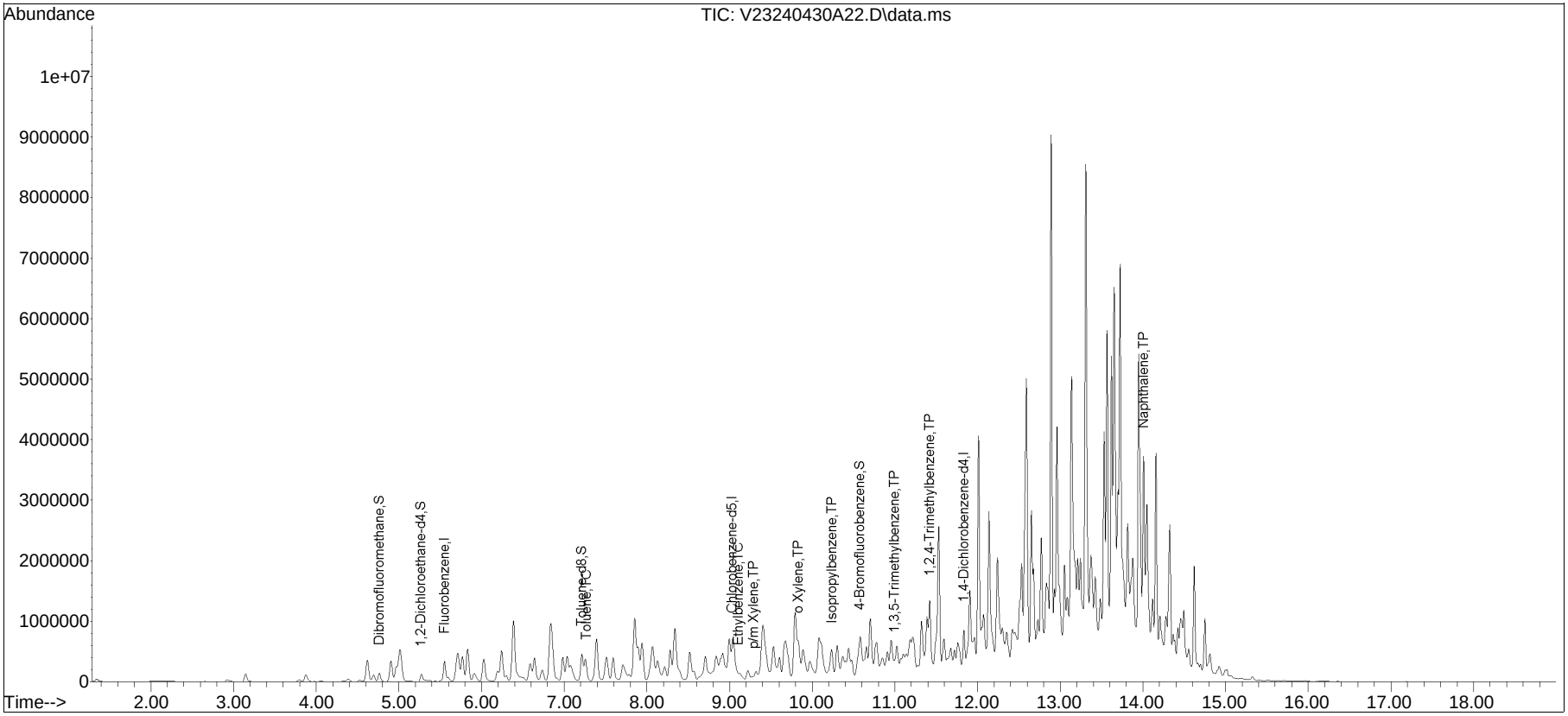


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240430A\
Data File : V23240430A22.D
Acq On : 30 Apr 2024 05:04 pm
Operator : VOA123:RAW
Sample : L2422575-10,31H,5.23,5,0.100,,A
Misc : WG1915548,ICAL20839
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 30 22:37:00 2024
Quant Method : K:\VOA123\2024\240430A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list430A01.D•

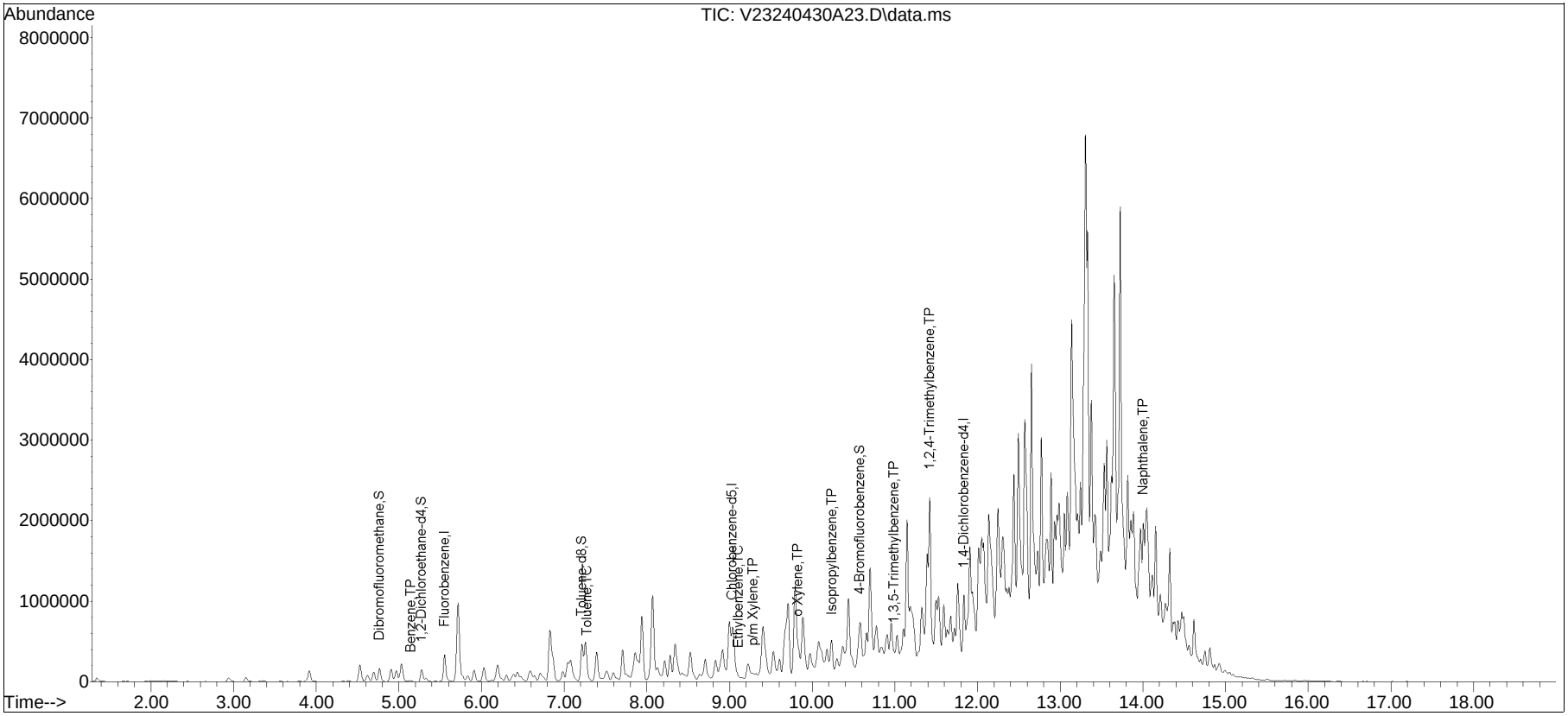


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240430A\
Data File : V23240430A23.D
Acq On : 30 Apr 2024 05:30 pm
Operator : VOA123:RAW
Sample : L2422575-12,31H,5.15,5,0.100,,A
Misc : WG1915548,ICAL20839
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 30 22:37:55 2024
Quant Method : K:\VOA123\2024\240430A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list430A01.D•



ANALYTICAL REPORT

Lab Number:	L2430771
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PESRM
Project Number:	200.00135
Report Date:	06/11/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2430771-01	GPR217-01-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:00	06/04/24
L2430771-02	GPR217-02-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:25	06/04/24
L2430771-03	GPR217-03-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:45	06/04/24
L2430771-04	GPR217-04-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:15	06/04/24
L2430771-05	GPR217-05-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:45	06/04/24
L2430771-06	GPR217-06-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:15	06/04/24
L2430771-07	GPR217-07-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:10	06/04/24
L2430771-08	GPR217-08-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:00	06/04/24
L2430771-09	GPR217-09-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:40	06/04/24
L2430771-10	GPR217-10-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:25	06/04/24
L2430771-11	GPR1208-06-SS01	SOIL	PHILADELPHIA, PA	06/03/24 13:30	06/04/24
L2430771-12	GPR1208-02-SS01-P	SOIL	PHILADELPHIA, PA	06/03/24 13:45	06/04/24
L2430771-13	GPR1208-02-SS01-G	SOIL	PHILADELPHIA, PA	06/03/24 13:55	06/04/24
L2430771-14	GPR1208-01-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:15	06/04/24
L2430771-15	GPR1205-09-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:30	06/04/24
L2430771-16	GPR1208-07-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:40	06/04/24
L2430771-17	TB-060324	WATER	PHILADELPHIA, PA	05/31/24 00:00	06/04/24
L2430771-18	FB-060324	WATER	PHILADELPHIA, PA	06/03/24 14:00	06/04/24

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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.

Project Name: PESRM **Lab Number:** L2430771
Project Number: 200.00135 **Report Date:** 06/11/24

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2430771-17: The Client ID was specified by the client.

Volatile Organics

L2430771-02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with obvious interferences. Copies of the chromatograms are included as an attachment to this report:

L2430771-02: 163%

L2430771-03: 179%

L2430771-05: 189%

L2430771-06: 932%

L2430771-07: 144%

L2430771-08: 173%

L2430771-14: 260%

L2430771-04: The surrogate recoveries outside the acceptance criteria for 1,2-dichloroethane-d4 (251%) and 4-bromofluorobenzene (379%); 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.

L2430771-04: The surrogate recovery is outside the method acceptance criteria for dibromofluoromethane (54%) due to interference with the Internal Standard.

L2430771-16: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (145%) and 4-bromofluorobenzene (217%); however, the sample was not re-analyzed due to coelution with an obvious

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Case Narrative (continued)

interference. A copy of the chromatogram is included as an attachment to this report.

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.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/24

ORGANICS

VOLATILES

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-01
Client ID: GPR217-01-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:00
Analyst: LAC
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00029	J	mg/kg	0.00083	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	101		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-02
Client ID: GPR217-02-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:25
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 17:20
Analyst: LAC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	0.046	J	mg/kg	0.072	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	**163**	Q	70-130
Dibromofluoromethane	89		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-03
Client ID: GPR217-03-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 12:52
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00068	J	mg/kg	0.00078	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	**179**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-04
Client ID: GPR217-04-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 13:19
Analyst: JIC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0037		mg/kg	0.00085	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**251**	Q	70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**379**	Q	70-130
Dibromofluoromethane	**54**	Q	70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-05
Client ID: GPR217-05-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 13:45
Analyst: JIC
Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00032	J	mg/kg	0.00090	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	**189**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-06
Client ID: GPR217-06-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 14:11
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00036	J	mg/kg	0.00056	0.00019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	**932**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-07
Client ID: GPR217-07-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:10
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:26
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00059	0.00020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	**144**	Q	70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-08
Client ID: GPR217-08-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:53
Analyst: LAC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00046	J	mg/kg	0.00084	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**173**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-09
Client ID: GPR217-09-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:40
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 19:26
Analyst: JIC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00096	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	94		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-10
Client ID: GPR217-10-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:25
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 19:52
Analyst: JIC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00064	0.00021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	96		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-11
Client ID: GPR1208-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:30
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 20:18
Analyst: JIC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.035		mg/kg	0.00071	0.00024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	79		70-130
Dibromofluoromethane	95		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-12
Client ID: GPR1208-02-SS01-P
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 20:44
Analyst: JIC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.012		mg/kg	0.00070	0.00023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-13
Client ID: GPR1208-02-SS01-G
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:55
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 21:10
Analyst: JIC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.047		mg/kg	0.00090	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-14
Client ID: GPR1208-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 23:46
Analyst: JIC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.032		mg/kg	0.00066	0.00022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	73		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	**260**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-15
Client ID: GPR1205-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:30
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/07/24 00:11
Analyst: JIC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.084		mg/kg	0.00058	0.00019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	75		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-16
Client ID: GPR1208-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:40
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/07/24 00:37
Analyst: JIC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.16		mg/kg	0.00080	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	71		70-130
Toluene-d8	**145**	Q	70-130
4-Bromofluorobenzene	**217**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-17
Client ID: TB-060324
Sample Location: PHILADELPHIA, PA
Date Collected: 05/31/24 00:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:20
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-18
Client ID: FB-060324
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:45
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 08:42
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17-18 Batch: WG1931053-5					
Benzene	ND		ug/l	0.50	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 10:13
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,07-08 Batch: WG1931171-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 10:13
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1931172-5					
Benzene	ND		mg/kg	0.025	0.0083

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 15:58
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09-16 Batch: WG1931215-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/10/24 08:52
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-06 Batch: WG1932636-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-18 Batch: WG1931053-3 WG1931053-4								
Benzene	98		99		70-130	1		20

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,07-08 Batch: WG1931171-3 WG1931171-4								
Benzene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		83		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1931172-3 WG1931172-4								
Benzene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		83		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09-16 Batch: WG1931215-3 WG1931215-4								
Benzene	80		77		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	78		79		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-06 Batch: WG1932636-3 WG1932636-4								
Benzene	87		87		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	81		82		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		88		70-130
Dibromofluoromethane	97		97		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-01
Client ID: GPR217-01-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:00
Date Received: 06/04/24
Field Prep: Not Specified

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	68.8		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-02
Client ID: GPR217-02-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:25
Date Received: 06/04/24
Field Prep: Not Specified

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	65.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-03
Client ID: GPR217-03-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:45
Date Received: 06/04/24
Field Prep: Not Specified

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	74.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-04
Client ID: GPR217-04-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:15
Date Received: 06/04/24
Field Prep: Not Specified

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	65.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-05
Client ID: GPR217-05-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:45
Date Received: 06/04/24
Field Prep: Not Specified

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	62.8		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-06
Client ID: GPR217-06-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:15
Date Received: 06/04/24
Field Prep: Not Specified

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	84.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-07
Client ID: GPR217-07-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:10
Date Received: 06/04/24
Field Prep: Not Specified

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	83.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-08
Client ID: GPR217-08-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:00
Date Received: 06/04/24
Field Prep: Not Specified

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	82.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-09
Client ID: GPR217-09-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:40
Date Received: 06/04/24
Field Prep: Not Specified

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	81.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-10
Client ID: GPR217-10-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:25
Date Received: 06/04/24
Field Prep: Not Specified

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	81.9		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-11
Client ID: GPR1208-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:30
Date Received: 06/04/24
Field Prep: Not Specified

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	76.6		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-12
Client ID: GPR1208-02-SS01-P
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:45
Date Received: 06/04/24
Field Prep: Not Specified

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	78.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-13
Client ID: GPR1208-02-SS01-G
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:55
Date Received: 06/04/24
Field Prep: Not Specified

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	65.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-14
Client ID: GPR1208-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:15
Date Received: 06/04/24
Field Prep: Not Specified

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	75.9		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-15
Client ID: GPR1205-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:30
Date Received: 06/04/24
Field Prep: Not Specified

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	88.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-16
Client ID: GPR1208-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:40
Date Received: 06/04/24
Field Prep: Not Specified

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	72.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1929847-1 QC Sample: L2431008-02 Client ID: DUP Sample						
Solids, Total	80.6	80.8	%	0		20

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-01A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-02A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-02X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-02Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-03A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-03X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-03Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-04A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-04C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-04X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-04Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-05A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-05X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-05Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-06A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-06X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-06Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-07A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-07X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-07Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-08A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-08C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-08X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-08Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-09A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-09X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-09Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-10A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-10X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-10Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-11A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-11X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-11Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-12A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-12C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-12X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-12Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-13A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-13X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-13Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-14A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-14X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-14Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-15A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-15X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-15Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-16A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-16C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-16X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-16Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-17A	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-SIM(14),PA-8260-BTEX(14),PA-8260(14)
L2430771-17B	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-SIM(14),PA-8260-BTEX(14),PA-8260(14)
L2430771-18A	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)
L2430771-18B	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)
L2430771-18C	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

GLOSSARY

Acronyms

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.)

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).

EMPC - 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.)

LOQ - 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.

MS - 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:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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.

V - 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.)

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 6/4/24

ALPHA Job #: L2430771

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: PESRM
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: Bill Schmidt
ALPHA Quote #:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client Info PO #:

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609.584.0090
Fax: 609.584.1190
Email: william.schmidt@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PADEP	

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Benzene

SAMPLE HANDLING
Filtration ________
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	Sample Specific Comments	TOTAL # BOTTLES
30771-01	GPR 217-01-SS01-2	6.3.24	12:00	S	TR	✓		
-02	GPR 217-02-SS01-2	↓	12:25	↓	↓	✓		
-03	GPR 217-03-SS01-2	↓	11:45	↓	↓	✓		
-04	GPR 217-04-SS01-2	↓	12:15	↓	↓	✓		
-05	GPR 217-05-SS01-2	↓	12:45	↓	↓	✓		
-06	GPR 217-06-SS01-2	↓	11:15	↓	↓	✓		
-07	GPR 217-07-SS01-2	↓	10:10	↓	↓	✓		
-08	GPR 217-08-SS01-2	↓	11:00	↓	↓	✓		
-09	GPR 217-09-SS01-2	↓	10:40	↓	↓	✓		
-10	GPR 217-10-SS01-2	↓	10:25	↓	↓	✓		

	Benzene
Container Type	G
Preservative	E

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/4/24 1410	[signature] PACE	6/4/24 1410
[signature] PACE		Paul Marcella	6/4/24 1645
Paul Marcella	6/4/24	[signature] PACE	6/4/24 2340
[signature] PACE	6/4/24 2340	[signature]	6/4/24 23:48

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/4/24

ALPHA Job #: L2430771

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609.584.0090
Fax: 609.584.1190
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PESRM
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: Bill Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PADEP	

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Benzene	SAMPLE HANDLING: Filtration (☐ Done ☐ Not needed ☐ Lab to do) Preservation (☐ Lab to do) (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
30771-11	GPR1208-06-SS01	6.3.24	13:30	S	TR	✓			
-12	GPR1208-02-SS01-P		13:45			✓			
-13	GPR1208-02-SS01-G		13:55			✓			
-14	GPR1208-01-SS01		14:15			✓			
-15	GPR1205-09-SS01		14:30			✓			
-16	GPR1208-07-SS01		14:40			✓			
-17	Trip blank	5.31.24	—	TB	—	✓			
-18	FB-060324	6.3.24	14:00	FB	TR	✓			

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Magella	6/4/24	PACE	6/4/24 1035
Chain PACE	6/4/24 2340	Paul Magella	6/4/24 1642
		Chain PACE	6/4/24 2340
		JCC	6/4/24 23:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

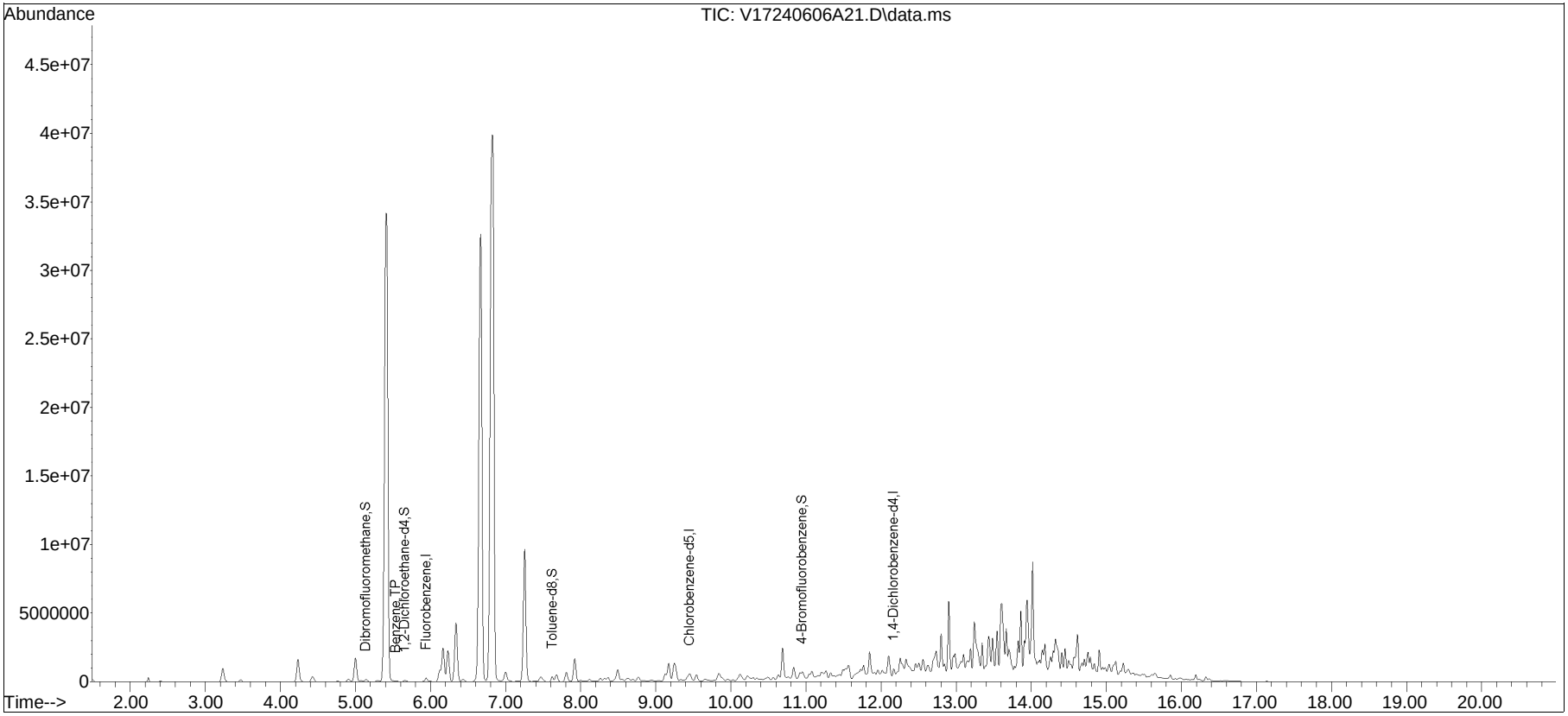
FORM NO: 01-01 (rev. 14-OCT-07)

Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A21.D
Acq On : 06 Jun 2024 05:20 pm
Operator : VOA117:LAC
Sample : L2430771-02,31H,3.26,5,0.100,,X
Misc : WG1931172,ICAL20984
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 17:46:45 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

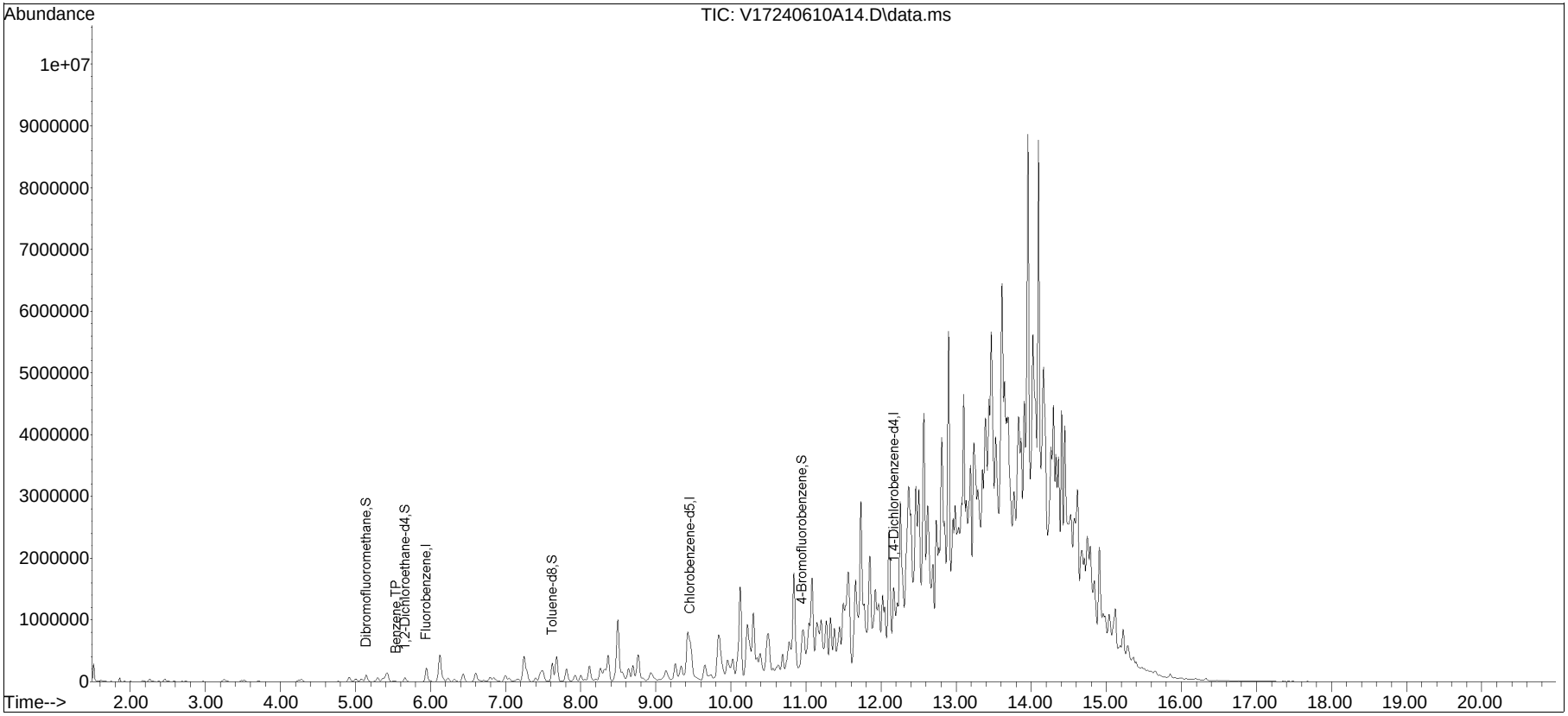


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A14.D
Acq On : 10 Jun 2024 12:52 pm
Operator : VOA117:JIC
Sample : L2430771-03,31,4.30,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 07:55:48 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

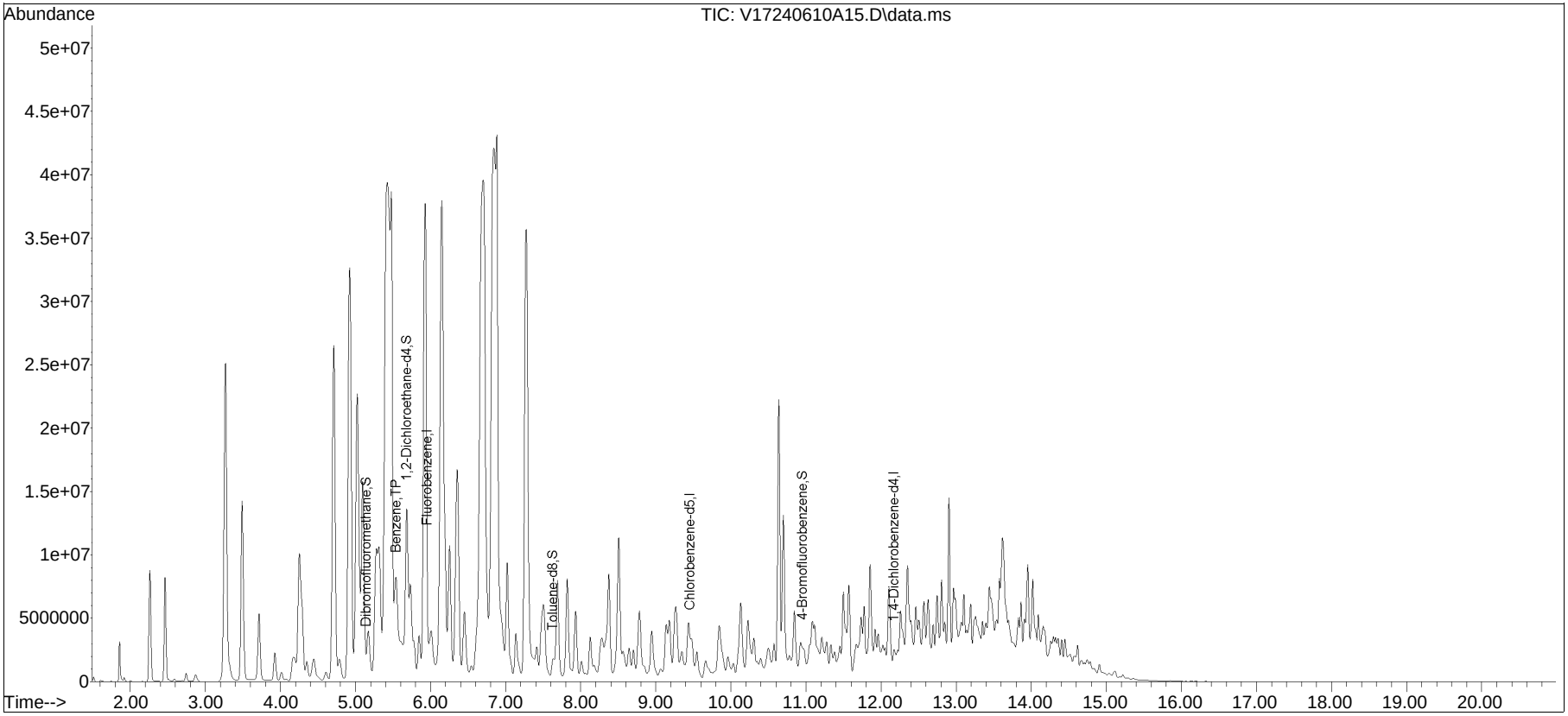


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A15.D
Acq On : 10 Jun 2024 01:19 pm
Operator : VOA117:JIC
Sample : L2430771-04,31,4.53,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 11 07:55:52 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

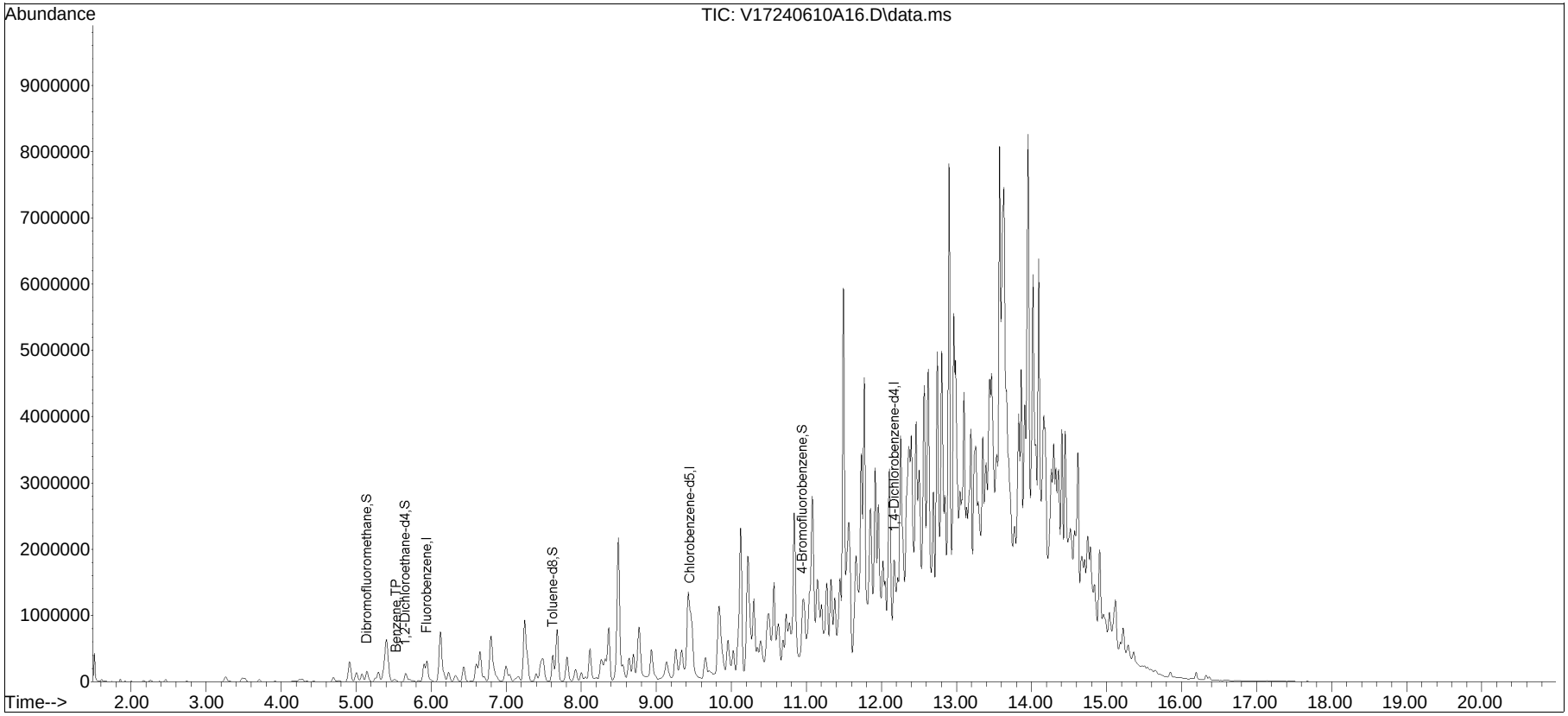


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A16.D
Acq On : 10 Jun 2024 01:45 pm
Operator : VOA117:JIC
Sample : L2430771-05,31,4.44,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 11 07:55:56 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

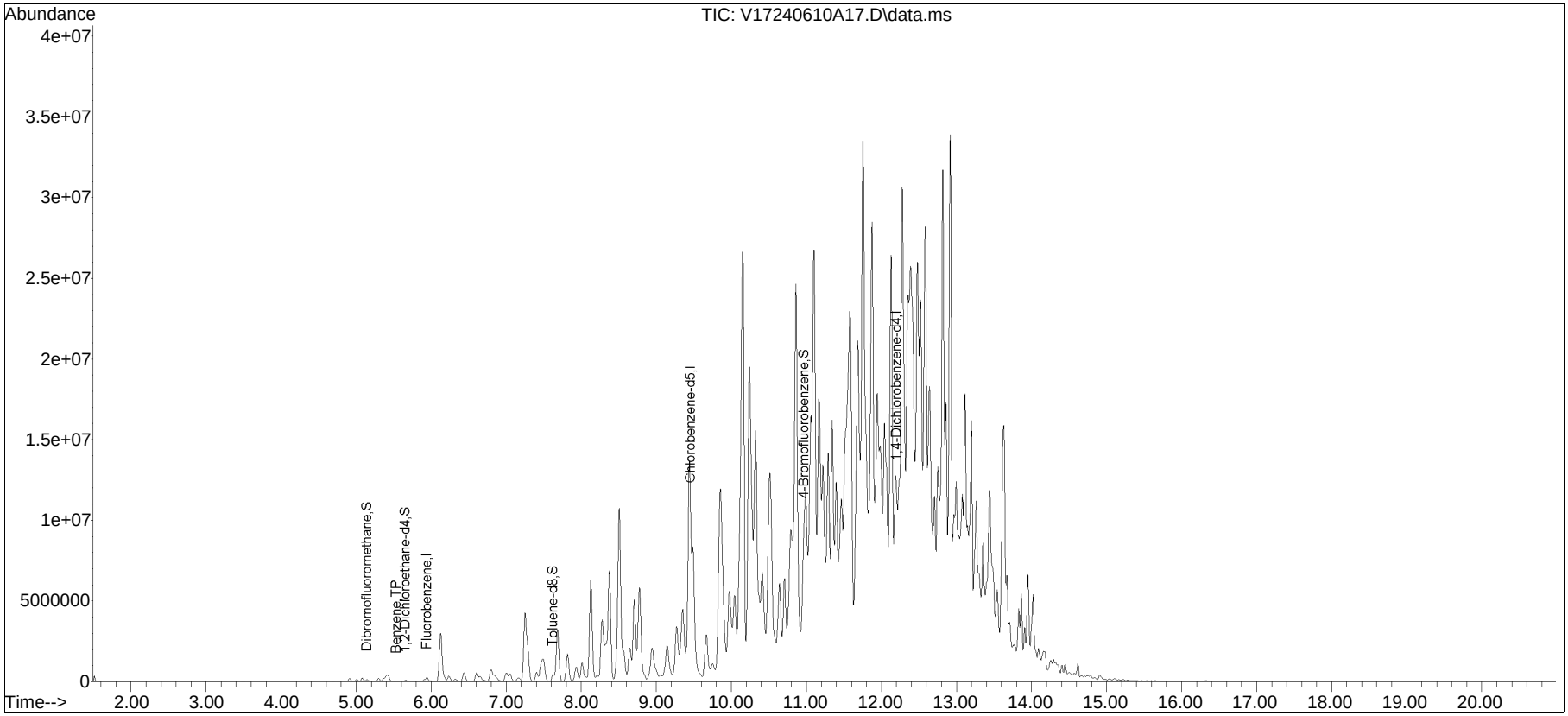


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A17.D
Acq On : 10 Jun 2024 02:11 pm
Operator : VOA117:JIC
Sample : L2430771-06,31,5.28,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 11 08:04:22 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

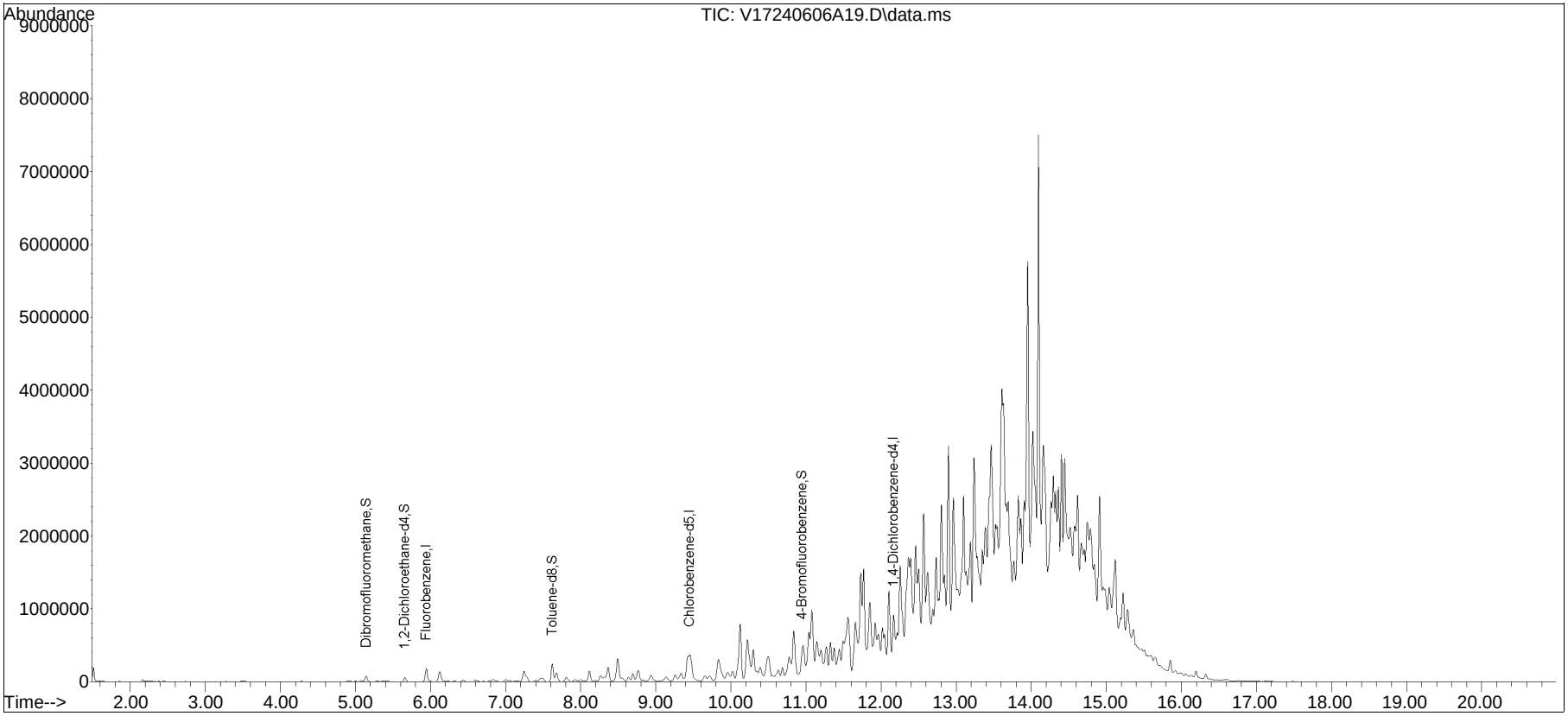


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A19.D
Acq On : 06 Jun 2024 04:26 pm
Operator : VOA117:LAC
Sample : L2430771-07,31,5.10,5,,Y
Misc : WG1931171,ICAL20984
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 06 16:48:54 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

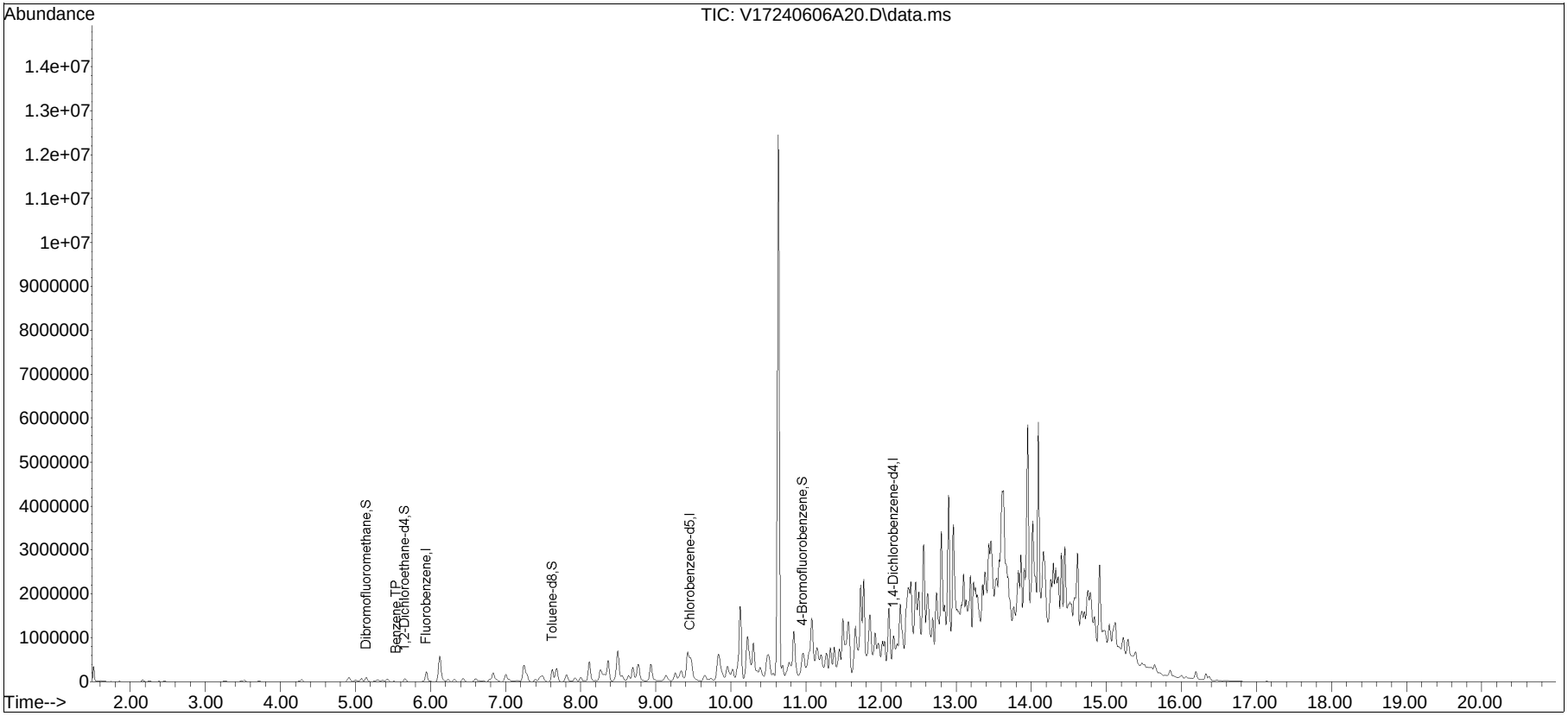


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A20.D
Acq On : 06 Jun 2024 04:53 pm
Operator : VOA117:LAC
Sample : L2430771-08,31,3.63,5,,Y
Misc : WG1931171,ICAL20984
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 17:46:14 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

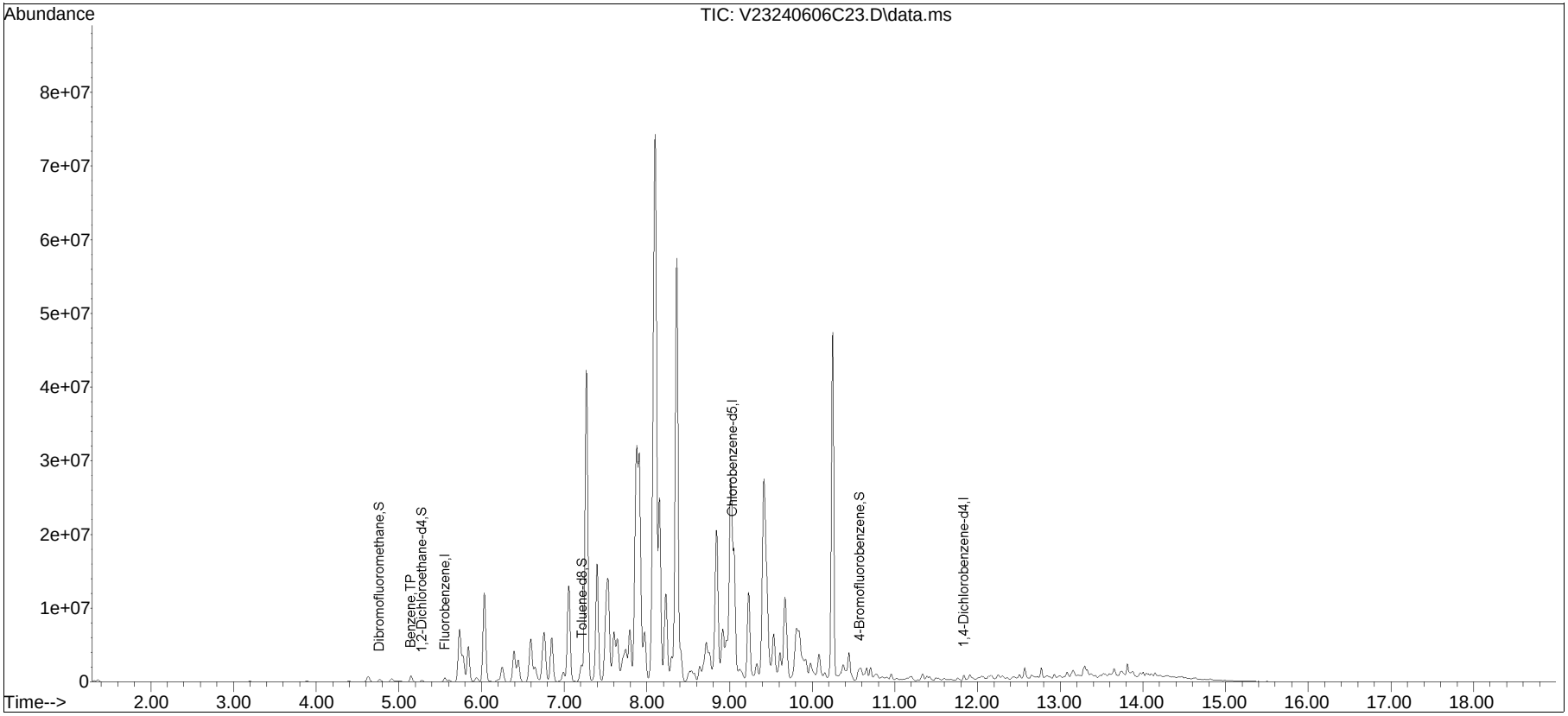


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240606C\
Data File : V23240606C23.D
Acq On : 06 Jun 2024 11:46 pm
Operator : VOA123:JIC
Sample : L2430771-14,31,4.97,5,,Z
Misc : WG1931215,ICAL21135
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 08:21:48 2024
Quant Method : K:\VOA123\2024\240606C\V123_240515N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 16 08:54:55 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV23240606C01.D•

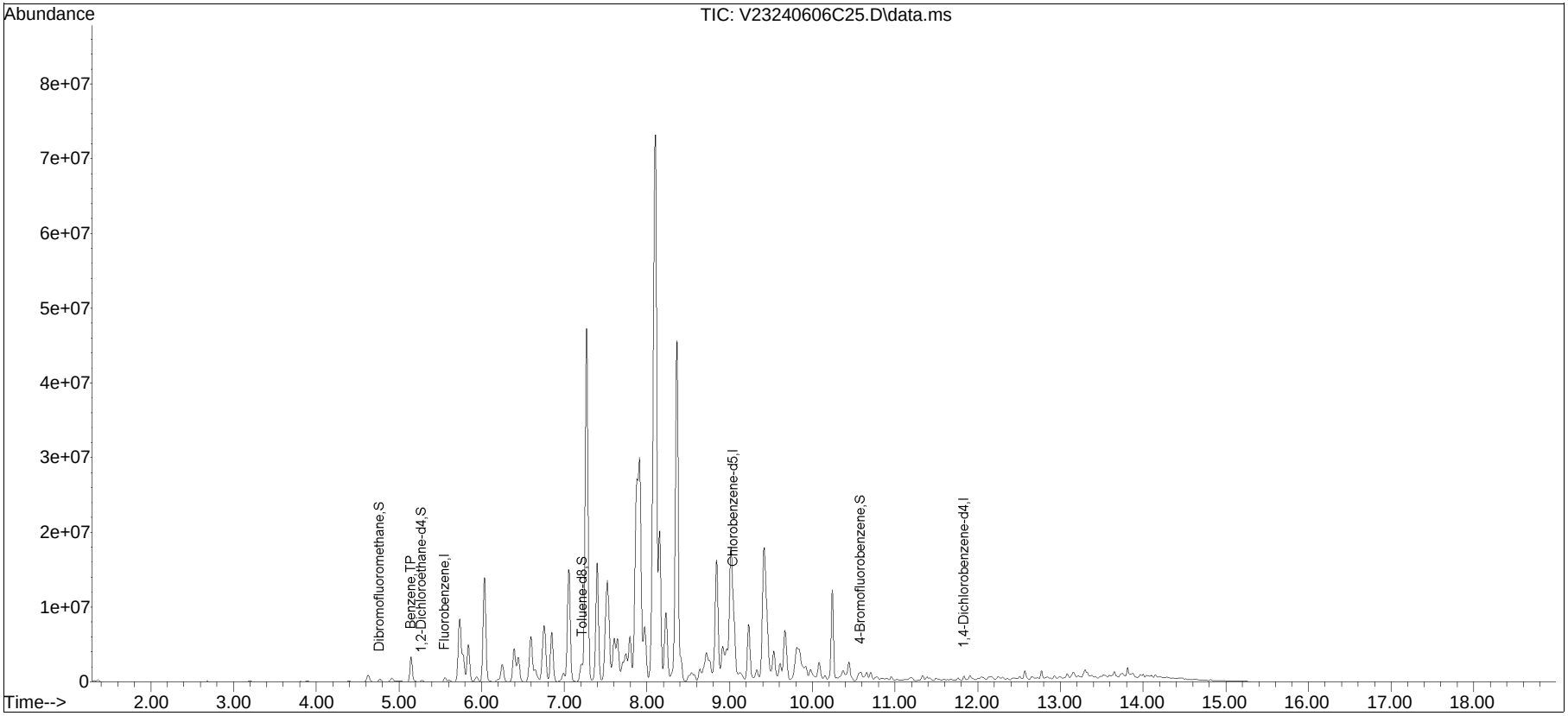


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240606C\
Data File : V23240606C25.D
Acq On : 07 Jun 2024 12:37 am
Operator : VOA123:JIC
Sample : L2430771-16,31,4.35,5,,Z
Misc : WG1931215,ICAL21135
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 07 08:21:59 2024
Quant Method : K:\VOA123\2024\240606C\V123_240515N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 16 08:54:55 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV23240606C01.D•



Appendix G

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2421961
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	04/29/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2421961-01	GPR217-04-SS01	SOIL	PHILADELPHIA, PA	04/22/24 08:35	04/22/24
L2421961-02	GPR217-05-SS01	SOIL	PHILADELPHIA, PA	04/22/24 08:55	04/22/24
L2421961-03	GPR217-07-SS01	SOIL	PHILADELPHIA, PA	04/22/24 09:05	04/22/24
L2421961-04	GPR219-01-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:35	04/22/24
L2421961-05	GPR219-02-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:50	04/22/24
L2421961-06	GPR219-03-SS01	SOIL	PHILADELPHIA, PA	04/22/24 12:10	04/22/24
L2421961-07	GPR219-04-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:00	04/22/24
L2421961-08	GPR219-05-SS01	SOIL	PHILADELPHIA, PA	04/22/24 11:15	04/22/24
L2421961-09	GPR219-06-SS01	SOIL	PHILADELPHIA, PA	04/22/24 12:30	04/22/24
L2421961-10	GPR219-07-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:20	04/22/24
L2421961-11	GPR219-08-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:45	04/22/24
L2421961-12	GPR219-09-SS01	SOIL	PHILADELPHIA, PA	04/22/24 13:05	04/22/24
L2421961-13	FB-240422	WATER	PHILADELPHIA, PA	04/22/24 10:00	04/22/24
L2421961-14	TB-240422	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/22/24

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2421961-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries for the following samples are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with an obvious interference. Copies of the chromatograms are included as an attachment to this report:

L2421961-01D: 136%

L2421961-02: 2271%

L2421961-06: 314%

L2421961-08: 1470%

L2421961-12: 189%

L2421961-03: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (167%) and 4-bromofluorobenzene (767%); 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.

L2421961-11: 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.

L2421961-11 (Low): The internal standard (IS) responses for chlorobenzene-d5 (49%) and 1,4-dichlorobenzene-d4 (48%) and the surrogate recoveries for 1,2-dichloroethane-d4 (59%), dibromofluoromethane (62%), toluene-d8 (179%), and 4-bromofluorobenzene (2342%) were outside the acceptance criteria due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. Since the IS response was below method criteria, all associated compounds are considered to have

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

Case Narrative (continued)

a potentially high bias. A high-level analysis was performed, and those results are also reported.

Semivolatile Organics

L2421961-07D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

L2421961-04 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1913014-4 Laboratory Duplicate RPD for lead (21%), performed on L2421961-04, 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.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/29/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-01 D
Client ID: GPR217-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 17:41
Analyst: JIC
Percent Solids: 64%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	ND		mg/kg	0.69	0.23	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	**136**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-02
Client ID: GPR217-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:55
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 11:19
Analyst: AJK
Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00056	J	mg/kg	0.00085	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**2270**	Q	70-130
Dibromofluoromethane	95		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-03
Client ID: GPR217-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 09:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 12:01
Analyst: AJK
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0030		mg/kg	0.0011	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	**167**	Q	70-130
4-Bromofluorobenzene	**767**	Q	70-130
Dibromofluoromethane	97		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 10:37
Analyst: MKS
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	ND		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
Ethylbenzene	0.00019	J	mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0014	J	mg/kg	0.0020	0.00057	1
o-Xylene	0.00083	J	mg/kg	0.0010	0.00030	1
Xylenes, Total	0.0022	J	mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.018		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.0027		mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0020		mg/kg	0.0020	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	111		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 12:42
Analyst: JIC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00065	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Toluene	ND		mg/kg	0.0013	0.00071	1
1,2-Dibromoethane	ND		mg/kg	0.00065	0.00038	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	0.0026		mg/kg	0.0026	0.00073	1
o-Xylene	0.0021		mg/kg	0.0013	0.00038	1
Xylenes, Total	0.0047		mg/kg	0.0013	0.00038	1
Isopropylbenzene	0.0059		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	0.0011	J	mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	0.0024	J	mg/kg	0.0026	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	105		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 11:40
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	0.0018		mg/kg	0.00060	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Toluene	0.0017		mg/kg	0.0012	0.00066	1
1,2-Dibromoethane	ND		mg/kg	0.00060	0.00035	1
Ethylbenzene	0.0043		mg/kg	0.0012	0.00017	1
p/m-Xylene	0.012		mg/kg	0.0024	0.00068	1
o-Xylene	0.0063		mg/kg	0.0012	0.00035	1
Xylenes, Total	0.018		mg/kg	0.0012	0.00035	1
Isopropylbenzene	0.23		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.0022	J	mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	0.0054		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**314**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 13:10
Analyst: JIC
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00033	1
Benzene	0.00032	J	mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Toluene	ND		mg/kg	0.0016	0.00088	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00048	1
Ethylbenzene	0.00040	J	mg/kg	0.0016	0.00023	1
p/m-Xylene	0.0020	J	mg/kg	0.0032	0.00091	1
o-Xylene	0.0074		mg/kg	0.0016	0.00047	1
Xylenes, Total	0.0094	J	mg/kg	0.0016	0.00047	1
Isopropylbenzene	0.020		mg/kg	0.0016	0.00018	1
1,3,5-Trimethylbenzene	0.0016	J	mg/kg	0.0032	0.00031	1
1,2,4-Trimethylbenzene	0.0066		mg/kg	0.0032	0.00054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	103		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 11:32
Analyst: AJK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	0.00072	J	mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0053		mg/kg	0.0020	0.00057	1
o-Xylene	0.0074		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.013		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.019		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0030		mg/kg	0.0020	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**1470**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 13:37
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	ND		mg/kg	0.0012	0.00064	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	0.0011	J	mg/kg	0.0024	0.00066	1
o-Xylene	0.0018		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0029	J	mg/kg	0.0012	0.00034	1
Isopropylbenzene	0.0011	J	mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	118		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 10:58
Analyst: AJK
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00066	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Toluene	ND		mg/kg	0.0013	0.00071	1
1,2-Dibromoethane	ND		mg/kg	0.00066	0.00038	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00073	1
o-Xylene	ND		mg/kg	0.0013	0.00038	1
Xylenes, Total	ND		mg/kg	0.0013	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 17:17
Analyst: KJD
Percent Solids: 86%

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	ND		mg/kg	0.030	0.0099	1
1,2-Dichloroethane	ND		mg/kg	0.060	0.015	1
Toluene	0.054	J	mg/kg	0.060	0.032	1
1,2-Dibromoethane	ND		mg/kg	0.030	0.017	1
Ethylbenzene	0.017	J	mg/kg	0.060	0.0084	1
p/m-Xylene	0.074	J	mg/kg	0.12	0.033	1
o-Xylene	0.033	J	mg/kg	0.060	0.017	1
Xylenes, Total	0.11	J	mg/kg	0.060	0.017	1
Isopropylbenzene	0.45		mg/kg	0.060	0.0065	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.12	0.011	1
1,2,4-Trimethylbenzene	0.028	J	mg/kg	0.12	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 12:03
Analyst: AJK
Percent Solids: 86%

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	0.00020	J	mg/kg	0.00046	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00092	0.00024	1
Toluene	0.0040		mg/kg	0.00092	0.00050	1
1,2-Dibromoethane	ND		mg/kg	0.00046	0.00027	1
Ethylbenzene	ND		mg/kg	0.00092	0.00013	1
p/m-Xylene	0.024		mg/kg	0.0018	0.00051	1
o-Xylene	0.011		mg/kg	0.00092	0.00027	1
Xylenes, Total	0.035		mg/kg	0.00092	0.00027	1
Isopropylbenzene	0.25		mg/kg	0.00092	0.00010	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0018	0.00018	1
1,2,4-Trimethylbenzene	0.010		mg/kg	0.0018	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**59**	Q	70-130
Toluene-d8	**179**	Q	70-130
4-Bromofluorobenzene	**2340**	Q	70-130
Dibromofluoromethane	**62**	Q	70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/26/24 12:22
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	ND		mg/kg	0.0023	0.00023	1
Benzene	ND		mg/kg	0.00058	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	0.0010	J	mg/kg	0.0012	0.00063	1
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1
Ethylbenzene	0.00064	J	mg/kg	0.0012	0.00016	1
p/m-Xylene	0.0033		mg/kg	0.0023	0.00065	1
o-Xylene	0.0050		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0083		mg/kg	0.0012	0.00034	1
Isopropylbenzene	0.0087		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.00044	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.0020	J	mg/kg	0.0023	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	**189**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/25/24 18:52
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/25/24 09:34
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-14
Client ID: TB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/25/24 19:01
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-14
Client ID: TB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/25/24 09:57
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/25/24 18:19
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/25/24 14:37

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1913109-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 11:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1913321-5					
Benzene	ND		mg/kg	0.025	0.0083

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 08:47
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1913589-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/24 11:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,07,09 Batch: WG1913798-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 09:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04,06,10,12 Batch: WG1914613-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	119		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 09:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 11 Batch: WG1914615-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	119		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1914738-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 11:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1914741-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1913109-2								
1,2-Dibromoethane	92		-		80-120	-		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1913321-3 WG1913321-4								
Benzene	90		88		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	91		90		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	106		122		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1913589-3 WG1913589-4								
Methyl tert butyl ether	91		90		63-130	1		20
Benzene	100		100		70-130	0		20
1,2-Dichloroethane	98		97		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		98		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
Isopropylbenzene	100		99		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	99		98		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,07,09 Batch: WG1913798-3 WG1913798-4								
Methyl tert butyl ether	97		124		66-130	24		30
Benzene	90		88		70-130	2		30
1,2-Dichloroethane	85		84		70-130	1		30
Toluene	83		80		70-130	4		30
1,2-Dibromoethane	99		97		70-130	2		30
Ethylbenzene	88		86		70-130	2		30
p/m-Xylene	86		83		70-130	4		30
o-Xylene	85		82		70-130	4		30
Isopropylbenzene	79		80		70-130	1		30
1,3,5-Trimethylbenzene	87		87		70-130	0		30
1,2,4-Trimethylbenzene	89		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	91		90		70-130
4-Bromofluorobenzene	95		92		70-130
Dibromofluoromethane	106		122		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04,06,10,12 Batch: WG1914613-3 WG1914613-4								
Methyl tert butyl ether	79		77		66-130	3		30
Benzene	105		102		70-130	3		30
1,2-Dichloroethane	107		104		70-130	3		30
Toluene	97		92		70-130	5		30
1,2-Dibromoethane	95		92		70-130	3		30
Ethylbenzene	96		91		70-130	5		30
p/m-Xylene	105		102		70-130	3		30
o-Xylene	105		98		70-130	7		30
Isopropylbenzene	91		84		70-130	8		30
1,3,5-Trimethylbenzene	96		90		70-130	6		30
1,2,4-Trimethylbenzene	96		91		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	92		89		70-130
4-Bromofluorobenzene	83		82		70-130
Dibromofluoromethane	104		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 11 Batch: WG1914615-3 WG1914615-4								
Methyl tert butyl ether	79		77		66-130	3		30
Benzene	105		102		70-130	3		30
1,2-Dichloroethane	107		104		70-130	3		30
Toluene	97		92		70-130	5		30
1,2-Dibromoethane	95		92		70-130	3		30
Ethylbenzene	96		91		70-130	5		30
p/m-Xylene	105		102		70-130	3		30
o-Xylene	105		98		70-130	7		30
Isopropylbenzene	91		84		70-130	8		30
1,3,5-Trimethylbenzene	96		90		70-130	6		30
1,2,4-Trimethylbenzene	96		91		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	92		89		70-130
4-Bromofluorobenzene	83		82		70-130
Dibromofluoromethane	104		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1914738-3 WG1914738-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1914741-3 WG1914741-4								
Methyl tert butyl ether	79		73		66-130	8		30
Benzene	100		86		70-130	15		30
1,2-Dichloroethane	94		89		70-130	5		30
Toluene	101		88		70-130	14		30
1,2-Dibromoethane	97		93		70-130	4		30
Ethylbenzene	100		88		70-130	13		30
p/m-Xylene	106		92		70-130	14		30
o-Xylene	105		93		70-130	12		30
Isopropylbenzene	102		87		70-130	16		30
1,3,5-Trimethylbenzene	100		87		70-130	14		30
1,2,4-Trimethylbenzene	102		88		70-130	15		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		94		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	94		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 06:42
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.4		mg/kg	0.042	0.026	1
Fluorene	4.2		mg/kg	0.21	0.020	1
Phenanthrene	11.	E	mg/kg	0.13	0.026	1
Anthracene	4.6		mg/kg	0.13	0.041	1
Pyrene	6.8		mg/kg	0.13	0.021	1
Benzo(a)anthracene	5.4		mg/kg	0.13	0.024	1
Chrysene	3.7		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	4.5		mg/kg	0.13	0.035	1
Benzo(a)pyrene	4.2		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	1.8		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	64		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04 D
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:59
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	14.		mg/kg	0.63	0.13	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 05:28
Analyst: JG
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	5.8		mg/kg	0.046	0.028	1
Fluorene	6.3		mg/kg	0.23	0.022	1
Phenanthrene	17.	E	mg/kg	0.14	0.028	1
Anthracene	8.3		mg/kg	0.14	0.045	1
Pyrene	12.	E	mg/kg	0.14	0.023	1
Benzo(a)anthracene	13.	E	mg/kg	0.14	0.026	1
Chrysene	8.1		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	13.	E	mg/kg	0.14	0.039	1
Benzo(a)pyrene	10.	E	mg/kg	0.18	0.056	1
Benzo(ghi)perylene	4.0		mg/kg	0.18	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	55		30-120
4-Terphenyl-d14	54		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05 D
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:17
Analyst: JG
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	28.		mg/kg	0.69	0.14	5
Pyrene	20.		mg/kg	0.69	0.11	5
Benzo(a)anthracene	13.		mg/kg	0.69	0.13	5
Benzo(b)fluoranthene	12.		mg/kg	0.69	0.19	5
Benzo(a)pyrene	11.		mg/kg	0.92	0.28	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 05:53
Analyst: JG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.62		mg/kg	0.037	0.023	1
Fluorene	0.36		mg/kg	0.18	0.018	1
Phenanthrene	0.96		mg/kg	0.11	0.022	1
Anthracene	0.36		mg/kg	0.11	0.036	1
Pyrene	1.2		mg/kg	0.11	0.018	1
Benzo(a)anthracene	1.0		mg/kg	0.11	0.021	1
Chrysene	0.93		mg/kg	0.11	0.019	1
Benzo(b)fluoranthene	1.2		mg/kg	0.11	0.031	1
Benzo(a)pyrene	1.1		mg/kg	0.15	0.045	1
Benzo(ghi)perylene	0.62		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	69		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07 D
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 21:10
Analyst: IM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.9		mg/kg	0.68	0.42	5
Fluorene	7.7		mg/kg	3.4	0.33	5
Phenanthrene	23.		mg/kg	2.0	0.42	5
Anthracene	6.4		mg/kg	2.0	0.67	5
Pyrene	13.		mg/kg	2.0	0.34	5
Benzo(a)anthracene	4.0		mg/kg	2.0	0.38	5
Chrysene	6.2		mg/kg	2.0	0.36	5
Benzo(b)fluoranthene	1.4	J	mg/kg	2.0	0.58	5
Benzo(a)pyrene	2.0	J	mg/kg	2.7	0.84	5
Benzo(ghi)perylene	1.9	J	mg/kg	2.7	0.40	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	32		23-120
2-Fluorobiphenyl	40		30-120
4-Terphenyl-d14	31		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:20
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.86		mg/kg	0.039	0.024	1
Fluorene	0.63		mg/kg	0.19	0.019	1
Phenanthrene	2.3		mg/kg	0.12	0.024	1
Anthracene	1.2		mg/kg	0.12	0.038	1
Pyrene	3.1		mg/kg	0.12	0.019	1
Benzo(a)anthracene	2.0		mg/kg	0.12	0.022	1
Chrysene	1.8		mg/kg	0.12	0.020	1
Benzo(b)fluoranthene	1.8		mg/kg	0.12	0.033	1
Benzo(a)pyrene	1.7		mg/kg	0.16	0.048	1
Benzo(ghi)perylene	0.67		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	34		30-120
4-Terphenyl-d14	39		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 06:17
Analyst: JG
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.4		mg/kg	0.044	0.027	1
Fluorene	1.1		mg/kg	0.22	0.021	1
Phenanthrene	0.83		mg/kg	0.13	0.027	1
Anthracene	0.87		mg/kg	0.13	0.043	1
Pyrene	2.6		mg/kg	0.13	0.022	1
Benzo(a)anthracene	1.9		mg/kg	0.13	0.025	1
Chrysene	1.7		mg/kg	0.13	0.023	1
Benzo(b)fluoranthene	2.0		mg/kg	0.13	0.037	1
Benzo(a)pyrene	2.0		mg/kg	0.18	0.053	1
Benzo(ghi)perylene	1.1		mg/kg	0.18	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	52		30-120
4-Terphenyl-d14	49		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 17:44
Analyst: CMM
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.3		mg/kg	0.048	0.030	1
Fluorene	0.20	J	mg/kg	0.24	0.024	1
Phenanthrene	0.79		mg/kg	0.14	0.030	1
Anthracene	0.65		mg/kg	0.14	0.047	1
Pyrene	1.0		mg/kg	0.14	0.024	1
Benzo(a)anthracene	0.70		mg/kg	0.14	0.027	1
Chrysene	0.80		mg/kg	0.14	0.025	1
Benzo(b)fluoranthene	0.91		mg/kg	0.14	0.041	1
Benzo(a)pyrene	0.71		mg/kg	0.19	0.059	1
Benzo(ghi)perylene	0.54		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	45		30-120
4-Terphenyl-d14	49		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:07
Analyst: CMM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.0		mg/kg	0.038	0.023	1
Fluorene	4.4		mg/kg	0.19	0.018	1
Phenanthrene	10.	E	mg/kg	0.11	0.023	1
Anthracene	5.3		mg/kg	0.11	0.037	1
Pyrene	11.	E	mg/kg	0.11	0.019	1
Benzo(a)anthracene	7.9	E	mg/kg	0.11	0.022	1
Chrysene	6.7		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	9.4	E	mg/kg	0.11	0.032	1
Benzo(a)pyrene	8.4	E	mg/kg	0.15	0.047	1
Benzo(ghi)perylene	3.6		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	52		30-120
4-Terphenyl-d14	57		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11 D
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 21:34
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	16.		mg/kg	0.57	0.12	5
Pyrene	15.		mg/kg	0.57	0.095	5
Benzo(a)anthracene	11.		mg/kg	0.57	0.11	5
Benzo(b)fluoranthene	11.		mg/kg	0.57	0.16	5
Benzo(a)pyrene	11.		mg/kg	0.76	0.23	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 18:30
Analyst: CMM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.0		mg/kg	0.041	0.025	1
Fluorene	2.6		mg/kg	0.20	0.020	1
Phenanthrene	6.6		mg/kg	0.12	0.025	1
Anthracene	2.6		mg/kg	0.12	0.040	1
Pyrene	6.5		mg/kg	0.12	0.020	1
Benzo(a)anthracene	3.3		mg/kg	0.12	0.023	1
Chrysene	3.2		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	3.9		mg/kg	0.12	0.034	1
Benzo(a)pyrene	3.3		mg/kg	0.16	0.050	1
Benzo(ghi)perylene	1.6		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	36		30-120
4-Terphenyl-d14	43		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 09:44
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	57		15-120
4-Terphenyl-d14	48		41-149

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/25/24 22:56
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/24/24 23:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-12 Batch: WG1912943-1					
Naphthalene	ND		mg/kg	0.032	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Pyrene	ND		mg/kg	0.097	0.016
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	84		18-120

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-12 Batch: WG1912943-2 WG1912943-3								
Naphthalene	80		74		40-140	8		50
Fluorene	86		79		40-140	8		50
Phenanthrene	83		75		40-140	10		50
Anthracene	87		81		40-140	7		50
Pyrene	90		81		35-142	11		50
Benzo(a)anthracene	86		80		40-140	7		50
Chrysene	80		73		40-140	9		50
Benzo(b)fluoranthene	89		76		40-140	16		50
Benzo(a)pyrene	91		82		40-140	10		50
Benzo(ghi)perylene	90		82		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		88		25-120
Phenol-d6	97		92		10-120
Nitrobenzene-d5	87		84		23-120
2-Fluorobiphenyl	88		81		30-120
2,4,6-Tribromophenol	82		75		10-136
4-Terphenyl-d14	91		85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	77.5		mg/kg	5.00	0.268	2	04/25/24 17:47	04/26/24 17:47	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	119		mg/kg	5.55	0.297	2	04/25/24 17:47	04/26/24 18:21	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	161		mg/kg	4.46	0.239	2	04/25/24 17:47	04/26/24 18:25	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	560		mg/kg	5.53	0.297	2	04/25/24 17:47	04/26/24 18:30	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	44.4		mg/kg	4.66	0.250	2	04/25/24 17:47	04/26/24 18:34	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	58.0		mg/kg	5.19	0.278	2	04/25/24 17:47	04/26/24 18:39	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	319		mg/kg	5.71	0.306	2	04/25/24 17:47	04/26/24 18:43	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	153		mg/kg	4.60	0.247	2	04/25/24 17:47	04/26/24 18:48	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	133		mg/kg	4.92	0.263	2	04/25/24 17:47	04/26/24 18:52	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-13
Client ID: FB-240422
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/22/24 10:00
Date Received: 04/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 16:12	04/28/24 18:05	EPA 3005A	1,6020B	WKP

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2421961
Report Date: 04/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04-12 Batch: WG1913014-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 17:47	04/26/24 17:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913279-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 16:12	04/28/24 17:23	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 Batch: WG1913014-2								
Lead, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913279-2								
Lead, Total	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 QC Batch ID: WG1913014-3 QC Sample: L2421961-04 Client ID: GPR219-01-SS01												
Lead, Total	77.5	53.4	132	102		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913279-3 QC Sample: L2422008-03 Client ID: MS Sample												
Lead, Total	0.7450J	530	599.8	113		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-12 QC Batch ID: WG1913014-4 QC Sample: L2421961-04 Client ID: GPR219-01-SS01						
Lead, Total	77.5	62.7	mg/kg	**21**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913279-4 QC Sample: L2422008-03 Client ID: DUP Sample						
Lead, Total	0.7450J	0.6935J	ug/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-01
Client ID: GPR217-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:35
Date Received: 04/22/24
Field Prep: Not Specified

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	63.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-02
Client ID: GPR217-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 08:55
Date Received: 04/22/24
Field Prep: Not Specified

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	61.0		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-03
Client ID: GPR217-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 09:05
Date Received: 04/22/24
Field Prep: Not Specified

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	55.6		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-04
Client ID: GPR219-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:35
Date Received: 04/22/24
Field Prep: Not Specified

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	79.2		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-05
Client ID: GPR219-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:50
Date Received: 04/22/24
Field Prep: Not Specified

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	71.9		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-06
Client ID: GPR219-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:10
Date Received: 04/22/24
Field Prep: Not Specified

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	88.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-07
Client ID: GPR219-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:00
Date Received: 04/22/24
Field Prep: Not Specified

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	70.7		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-08
Client ID: GPR219-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 11:15
Date Received: 04/22/24
Field Prep: Not Specified

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	83.7		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-09
Client ID: GPR219-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 12:30
Date Received: 04/22/24
Field Prep: Not Specified

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	74.1		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-10
Client ID: GPR219-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:20
Date Received: 04/22/24
Field Prep: Not Specified

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	68.1		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-11
Client ID: GPR219-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:45
Date Received: 04/22/24
Field Prep: Not Specified

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	86.2		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

SAMPLE RESULTS

Lab ID: L2421961-12
Client ID: GPR219-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/22/24 13:05
Date Received: 04/22/24
Field Prep: Not Specified

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	80.8		%	0.100	NA	1	-	04/23/24 13:27	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2421961

Report Date: 04/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1912013-1 QC Sample: L2422025-04 Client ID: DUP Sample						
Solids, Total	83.8	83.8	%	0		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-01B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-01C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-01D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-02B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-02C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-02D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-03A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-03B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-03C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-03D	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-04A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-04B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-04C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-04E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-04F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-05A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-05B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-05C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-05E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-05F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-06A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-06B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-06C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-06D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-06E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-06F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-07A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-07B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-07C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-07E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-07F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-08A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-08B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-08C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-08E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-08F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-09A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-09B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-09C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-09E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-09F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-10A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-10B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-10C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2421961
Report Date: 04/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2421961-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-10E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-10F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-11A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2421961-11B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260H(14),PA-8260HLW(14)
L2421961-11C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260H(14),PA-8260HLW(14)
L2421961-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-11E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-11F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-12A	Vial MeOH preserved	A	NA		3.4	Y	Absent		PA-8260HLW(14)
L2421961-12B	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-12C	Vial water preserved	A	NA		3.4	Y	Absent	23-APR-24 06:53	PA-8260HLW(14)
L2421961-12D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2421961-12E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		PA-PAH(14)
L2421961-12F	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2421961-13A	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-13B	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-13C	Vial HCl preserved	A	NA		3.4	Y	Absent		8011(14)
L2421961-13D	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		PB-6020T-PPB(180)
L2421961-13E	Amber 250ml unpreserved	A	NA		3.4	Y	Absent		PA-PAHSIM-LVI(7)
L2421961-13F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		PA-PAHSIM-LVI(7)
L2421961-14A	Vial HCl preserved	A	NA		3.4	Y	Absent		PA-8260(14)
L2421961-14B	Vial HCl preserved	A	NA		3.4	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

Project Name:	PES REFINERY	**Lab Number:**	L2421961
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GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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:	PES REFINERY	**Lab Number:**	L2421961
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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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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

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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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2421961
Project Number:	200.00135	**Report Date:**	04/29/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd In Lab: 4/23/24

ALPHA Job #: L2421961

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Benzene	ANALYSIS: Short List 1-5 (see Comment)	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
21961-01	GPR217-04-5501	04/22/24	8:35	S	ND	X				4
-02	GPR217-05-5501		8:55			X				4
-03	GPR217-07-5501		9:05			X				4
-04	GPR219-01-5501		11:35				X			6
-05	GPR219-02-5501		11:50				X			6
-06	GPR219-03-5501		12:10				X			6
-07	GPR219-04-5501		11:00				X			6
-08	GPR219-05-5501		11:15				X			6
-09	GPR219-06-5501		12:30				X			6
-10	GPR219-07-5501		13:20				X			6

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

2nd: 4/23/24 0210
4/23/24 0210

Container Type										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
Anthony Green	4/23/24 0010	Anthony Green	4/23/24 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APR 22 2024

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:04292414:52

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/23/24

ALPHA Job #: L2421961

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.0035
Project Manager: William Schmidt
ALPHA Quote #:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Benzene; Short list-S (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	Short list-S (see attached)	Sample Specific Comments	TOTAL # BOTTLES
21961-11	GPR219-08-SS01	04/22/24	13:45	S	ND		X		6
-12	GPR219-09-SS01	↓	13:05	↓	↓		X		6
-13	FB-240422	↓	10:00	blank	↓	X	X		6
-14	TB-240422	04/19/24		blank		X	X		2

Container Type
Preservative

Rel: [signature] 4/23/24 0210
[signature] 4/23/24 0210

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	04/22/24/14:40	[signature] Pace	4/22/24 14:40
[signature] Pace	4/22/24 1830	Anthony Green	4/22/24 1830
Anthony Green	4/22/24 2140	[signature]	APR 22 2024 2140
	4/23/24 0010		4/23/24 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products (cont.)

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Fuel Oil Nos 4, 5 and 6, and Lubricating Oils and Fluids 5	Benzene Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Fluorene Anthracene Phenanthrene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Phenanthrene Pyrene Chrysene	EPA Method 8270C, 8310 or 525.2
Used Motor Oil 6	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 525.2
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Mineral Insulating Oil	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082 or 508A
	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8021B or 5035/8260B	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
Other Petroleum Products Blended Petroleum Products Unknown Petroleum Products Other Regulated Substances	Contact the DEP Regional Office responsible for the county in which the tank is located			

[1] Samples from potable water supplies must be analyzed using a method applicable to drinking water

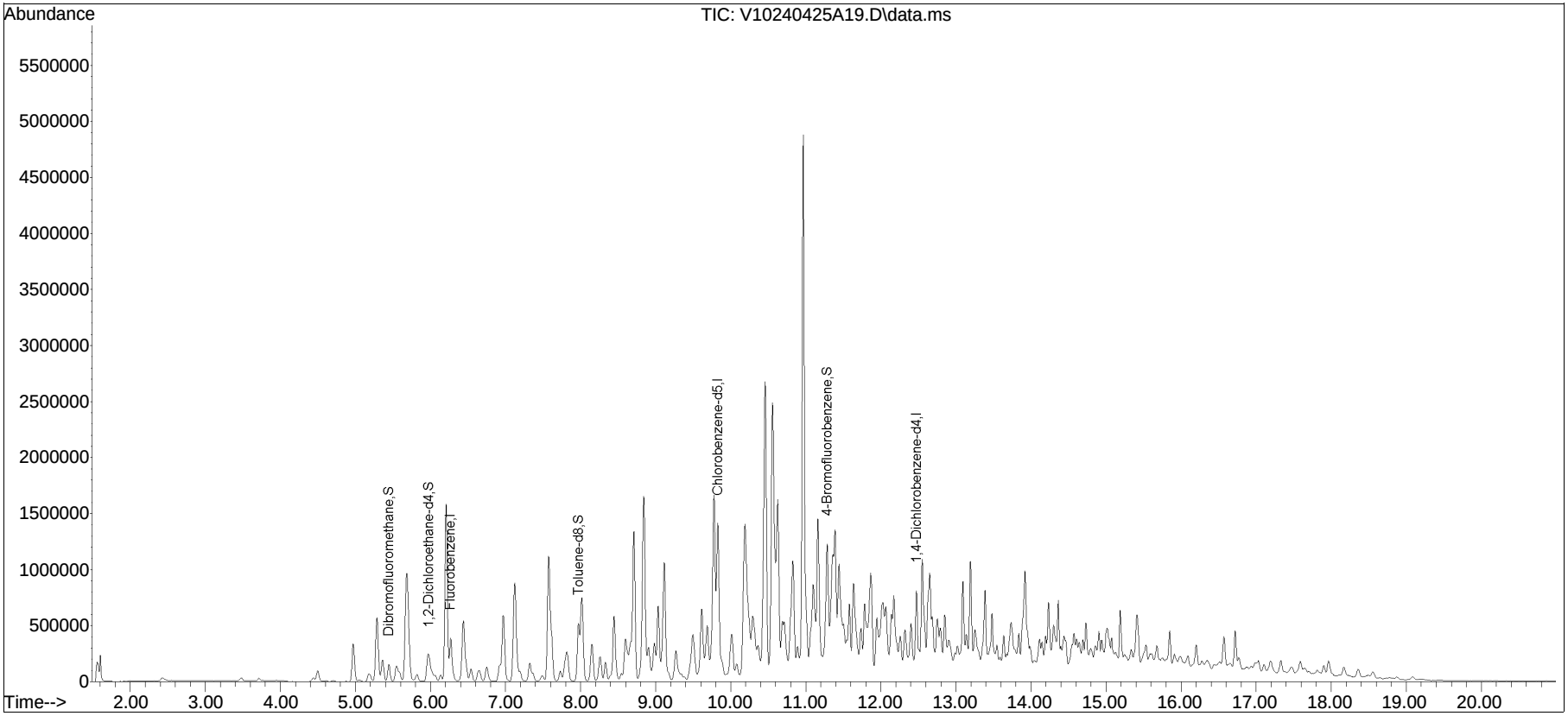
Notes:
When reporting nondetected (ND), the data must be accompanied by a numerical quantitation limit that takes into account dilution, sample preparation, and matrix effects.
The responsible party has the obligation to ensure that the analytical methodologies and techniques employed are suitable to provide data that meets the minimal data quality objectives outlined and referenced in this document.
Laboratories must document that samples meet all applicable preservation requirements.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA110\2024\240425A\
Data File : V10240425A19.D
Acq On : 25 Apr 2024 5:41 pm
Operator : VOA110:JIC
Sample : l2421961-01d,31h,3.57,5,0.01,,a
Misc : WG1913321,ICAL20673
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 26 07:52:36 2024
Quant Method : K:\VOA110\2024\240425A\V110_231214N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 15 08:40:25 2023
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV10240425A01.D•

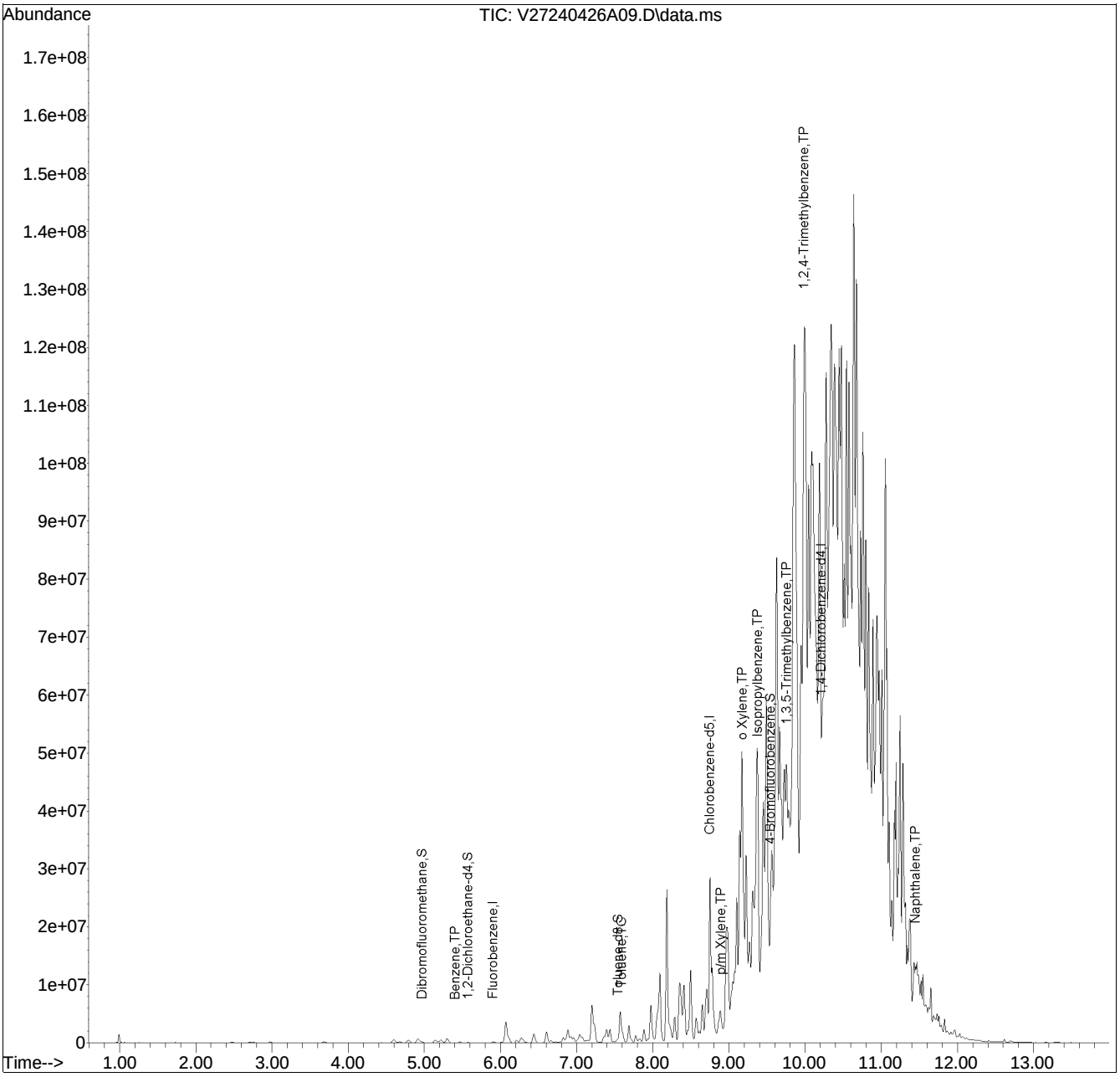


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A09.D
Acq On : 26 Apr 2024 11:19 am
Operator : VOA127:AJK
Sample : L2421961-02,31,4.83,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 26 11:36:00 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•

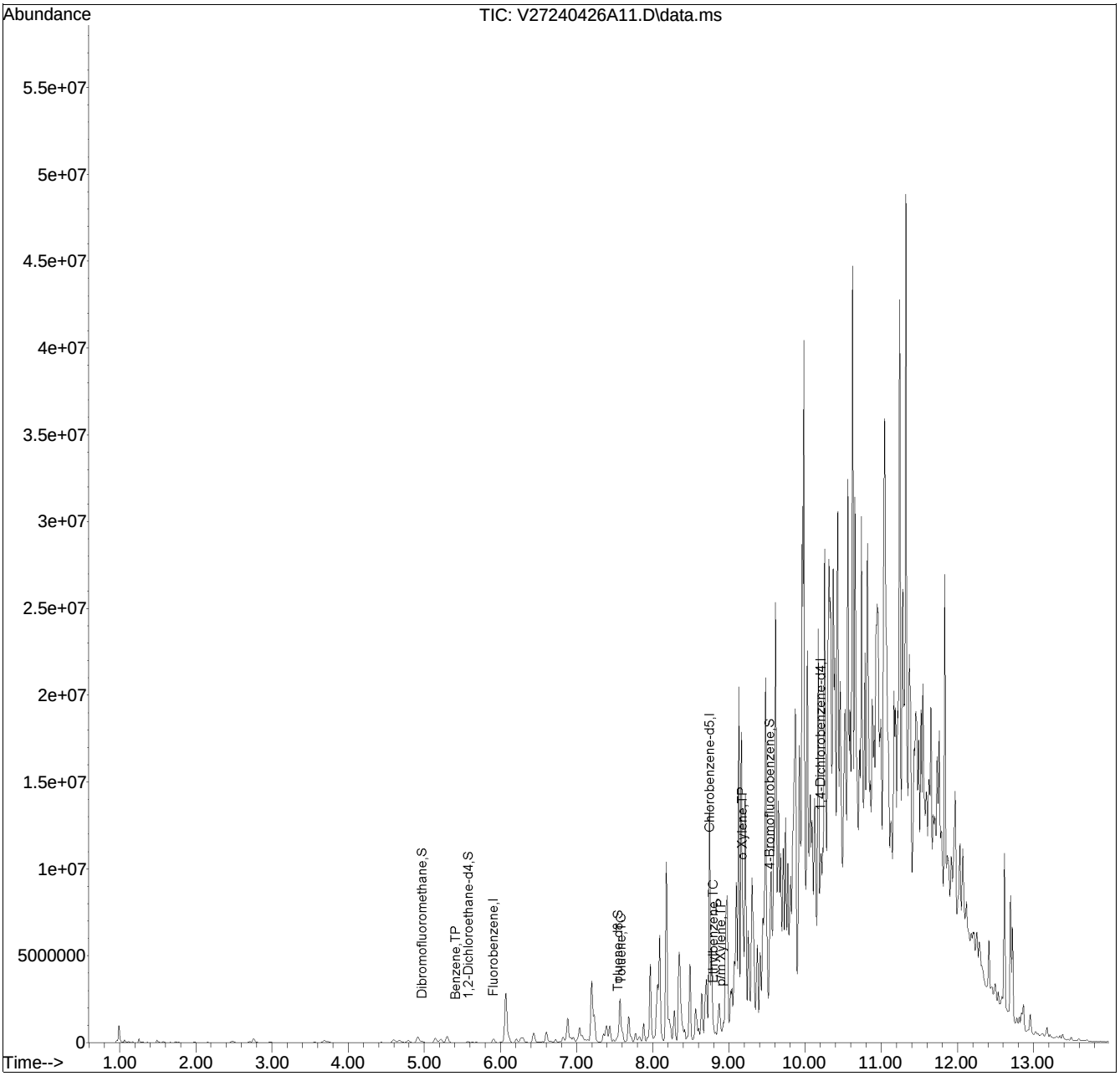


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A11.D
Acq On : 26 Apr 2024 12:01 pm
Operator : VOA127:AJK
Sample : L2421961-03,31,4.06,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 26 12:42:03 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-BTEX - Standard BTEX List240426A01.D•

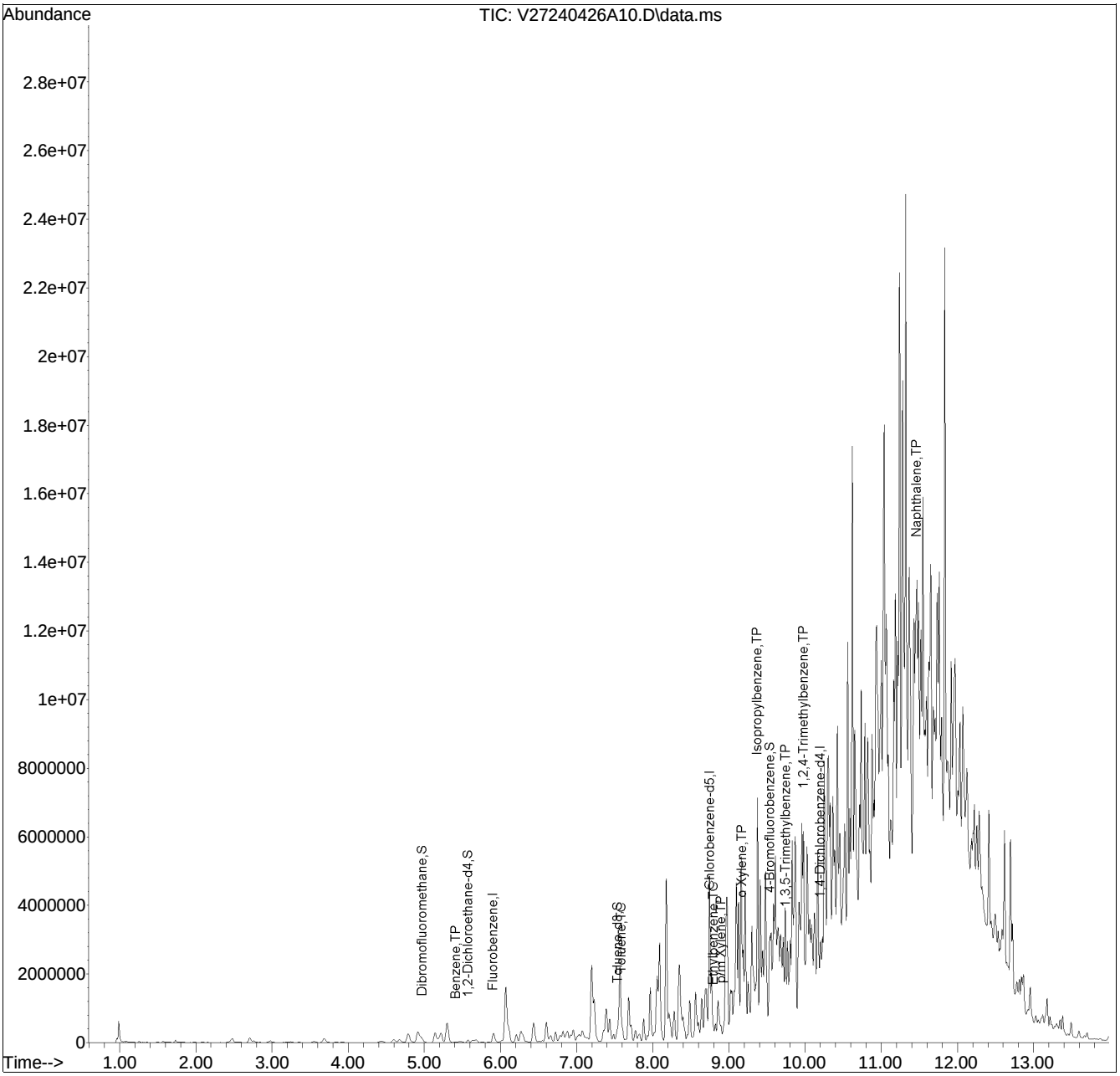


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A10.D
Acq On : 26 Apr 2024 11:40 am
Operator : VOA127:AJK
Sample : L2421961-06,31,4.66,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 26 12:03:33 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•

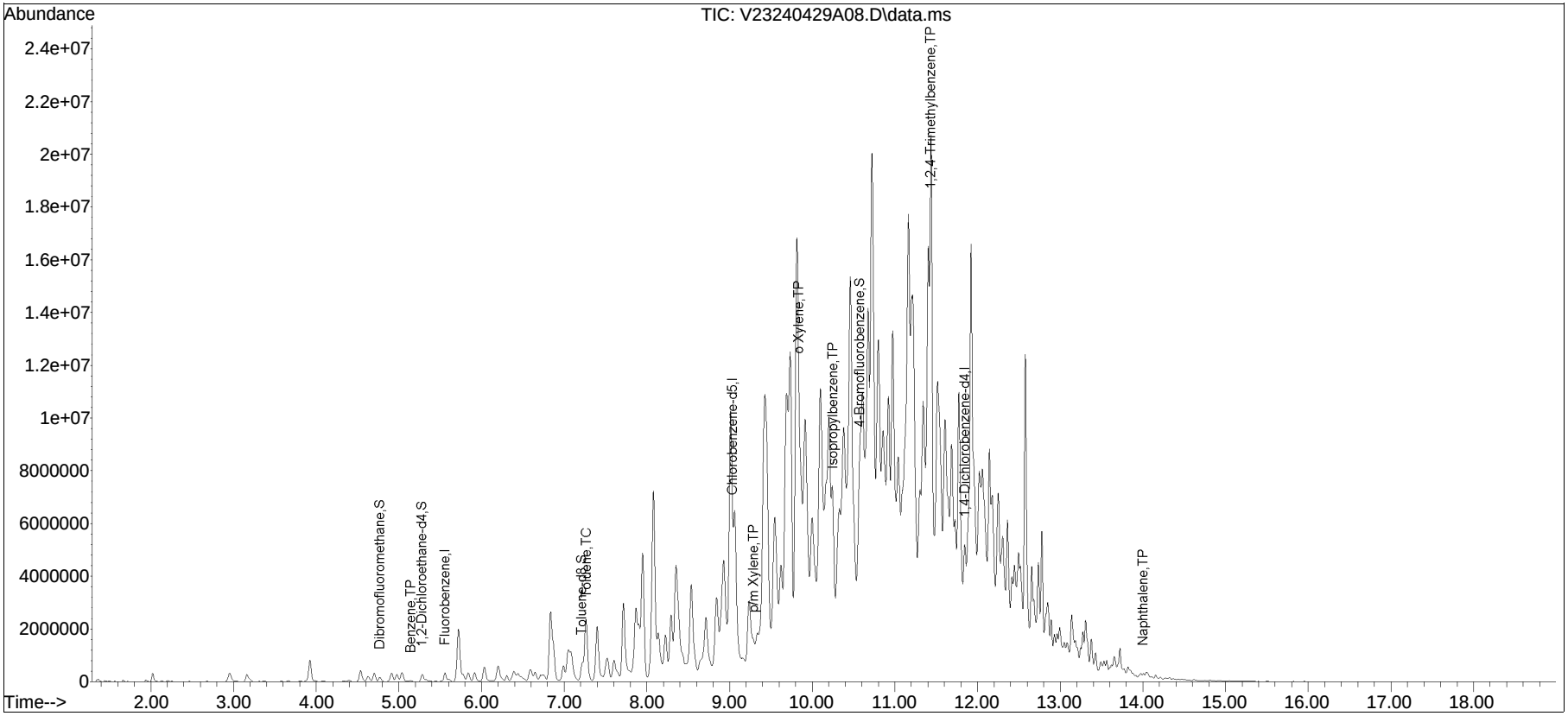


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240429A\
Data File : V23240429A08.D
Acq On : 29 Apr 2024 11:32 am
Operator : VOA123:AJK
Sample : L2421961-08,31,5.82,5,,B
Misc : WG1914738,ICAL20839
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 12:57:59 2024
Quant Method : K:\VOA123\2024\240429A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

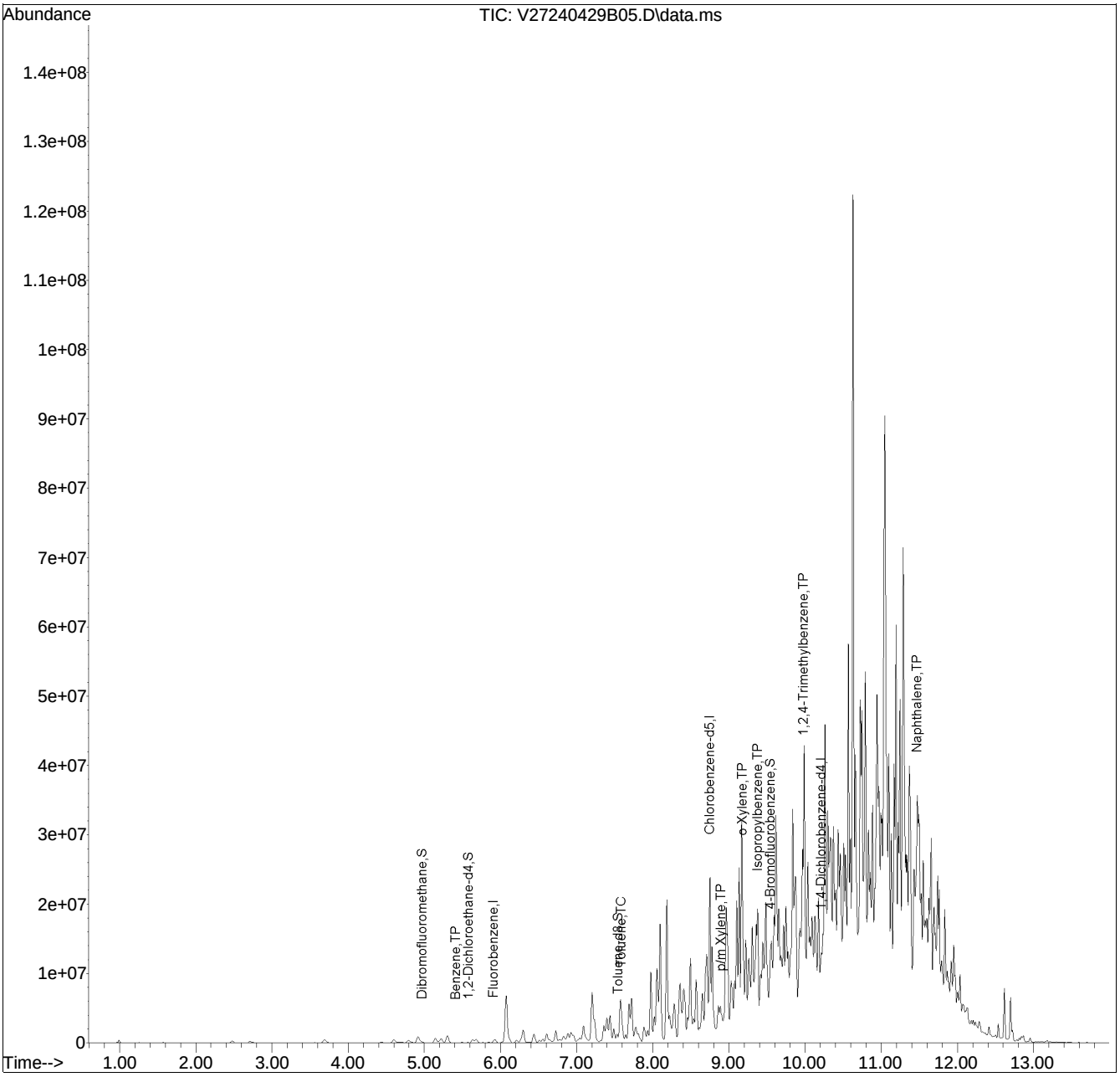


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240429B\
Data File : V27240429B05.D
Acq On : 29 Apr 2024 12:03 pm
Operator : VOA127:AJK
Sample : L2421961-11,31,6.31,5,,B
Misc : WG1914741,ICAL20985
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 12:36:23 2024
Quant Method : K:\VOA127\2024\240429B\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429B01.D•

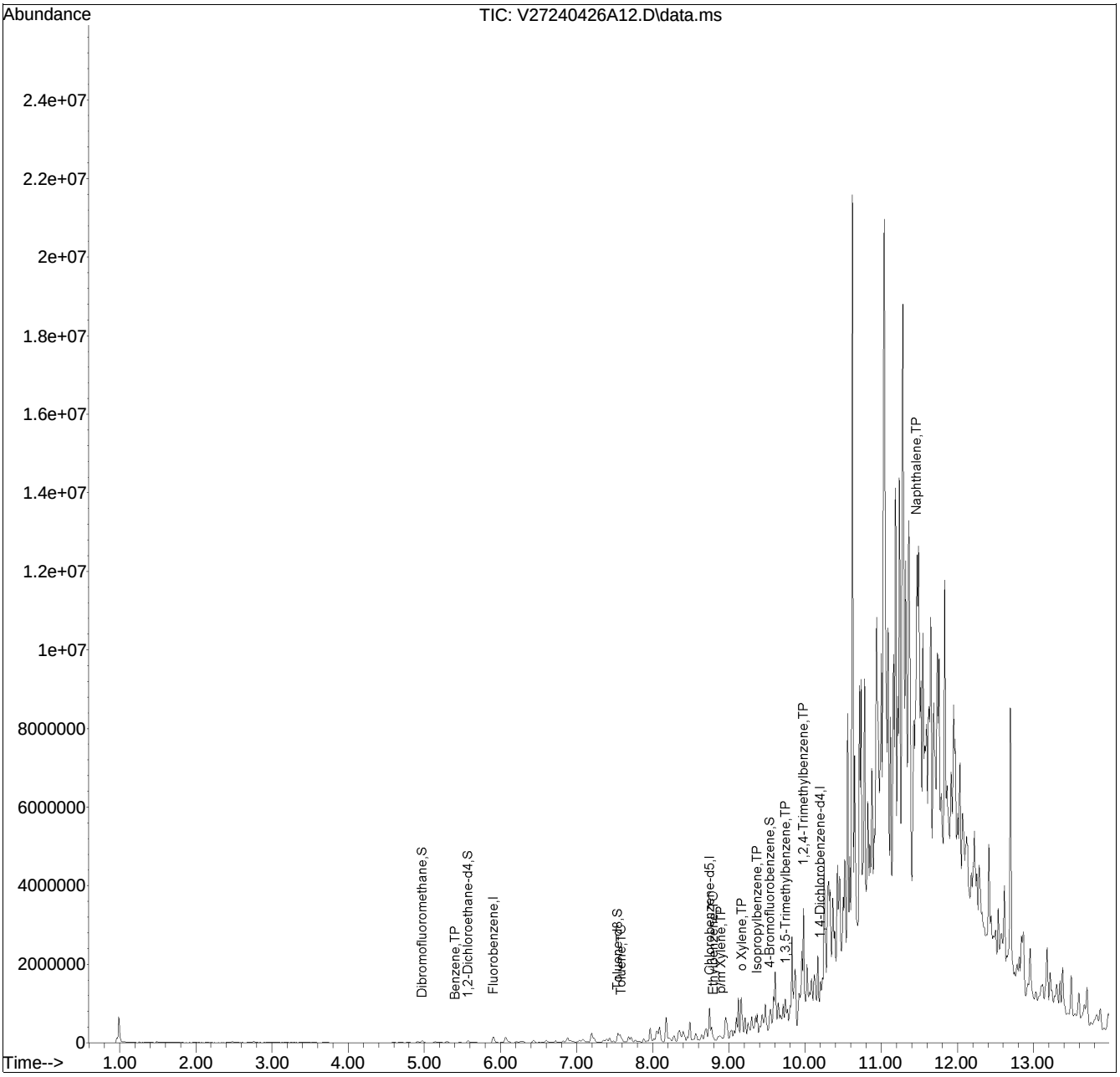


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240426A\
Data File : V27240426A12.D
Acq On : 26 Apr 2024 12:22 pm
Operator : VOA127:AJK
Sample : L2421961-12,31,5.31,5,,B
Misc : WG1914613,ICAL20985
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 26 12:45:03 2024
Quant Method : K:\VOA127\2024\240426A\V127_240326Q_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 12:08:20 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list426A01.D•



ANALYTICAL REPORT

Lab Number:	L2422248
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	04/30/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422248-01	GPR225-01-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:35	04/23/24
L2422248-02	GPR225-02-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:55	04/23/24
L2422248-03	GPR225-03-SS01	SOIL	PHILADELPHIA, PA	04/23/24 10:20	04/23/24
L2422248-04	GPR225-04-SS01	SOIL	PHILADELPHIA, PA	04/23/24 09:10	04/23/24
L2422248-05	GPR225-05-SS01	SOIL	PHILADELPHIA, PA	04/23/24 12:00	04/23/24
L2422248-06	GPR225-06-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:45	04/23/24
L2422248-07	GPR225-07-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:25	04/23/24
L2422248-08	GPR225-08-SS01	SOIL	PHILADELPHIA, PA	04/23/24 08:00	04/23/24
L2422248-09	GPR225-09-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:35	04/23/24
L2422248-10	GPR225-10-SS01	SOIL	PHILADELPHIA, PA	04/23/24 10:35	04/23/24
L2422248-11	GPR225-11-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:00	04/23/24
L2422248-12	GPR225-12-SS01	SOIL	PHILADELPHIA, PA	04/23/24 11:15	04/23/24
L2422248-13	FB-240423	WATER	PHILADELPHIA, PA	04/23/24 12:30	04/23/24
L2422248-14	TB-240423	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/23/24

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2422248-10D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2422248-10D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (136%); 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.

L2422248-11 and -12: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2422248-11: 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.

L2422248-12: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (152%); 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.

Microextractables

L2422248-13 and -14: The sample was not appropriately preserved for 8011. The analysis was performed on an HCl preserved vial with the client's authorization.

The WG1914111-2 LCS recovery for 1,2-dibromoethane (130%), associated with L2422248-13 and -14, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

PAHs

L2422248-11D and -12D: The sample has elevated detection limits due to the dilution required by the sample

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

Case Narrative (continued)

matrix.

Total Metals

L2422248-01 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/30/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 15:25
Analyst: AJK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	ND		mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 16:43
Analyst: AJK
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	ND		mg/kg	0.0012	0.00064	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00034	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1
o-Xylene	0.0044		mg/kg	0.0012	0.00034	1
Xylenes, Total	0.0044		mg/kg	0.0012	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 15:51
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00056	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	0.00067	J	mg/kg	0.0011	0.00061	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1
Ethylbenzene	0.00019	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0026		mg/kg	0.0022	0.00063	1
o-Xylene	0.0033		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0059		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.010		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0025		mg/kg	0.0022	0.00022	1
1,2,4-Trimethylbenzene	0.0086		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 10:09
Analyst: AJK
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
Benzene	ND		mg/kg	0.00062	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Toluene	ND		mg/kg	0.0012	0.00067	1
1,2-Dibromoethane	ND		mg/kg	0.00062	0.00036	1
Ethylbenzene	0.00020	J	mg/kg	0.0012	0.00017	1
p/m-Xylene	0.0011	J	mg/kg	0.0025	0.00069	1
o-Xylene	0.00054	J	mg/kg	0.0012	0.00036	1
Xylenes, Total	0.0016	J	mg/kg	0.0012	0.00036	1
Isopropylbenzene	0.00066	J	mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	0.00027	J	mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	0.00057	J	mg/kg	0.0025	0.00041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 16:17
Analyst: AJK
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	0.0021	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00031	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:09
Analyst: AJK
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
Benzene	ND		mg/kg	0.00068	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00035	1
Toluene	ND		mg/kg	0.0014	0.00073	1
1,2-Dibromoethane	ND		mg/kg	0.00068	0.00040	1
Ethylbenzene	ND		mg/kg	0.0014	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00076	1
o-Xylene	ND		mg/kg	0.0014	0.00039	1
Xylenes, Total	ND		mg/kg	0.0014	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0027	0.00026	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0027	0.00045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:26
Analyst: AJK
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Toluene	ND		mg/kg	0.0013	0.00069	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00072	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:35
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00059	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	0.00021	J	mg/kg	0.0011	0.00015	1
p/m-Xylene	0.0012	J	mg/kg	0.0022	0.00061	1
o-Xylene	0.00061	J	mg/kg	0.0011	0.00032	1
Xylenes, Total	0.0018	J	mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.0013		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00041	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.00067	J	mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:01
Analyst: AJK
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0030	0.00030	1
Benzene	ND		mg/kg	0.00074	0.00025	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00038	1
Toluene	ND		mg/kg	0.0015	0.00081	1
1,2-Dibromoethane	ND		mg/kg	0.00074	0.00044	1
Ethylbenzene	ND		mg/kg	0.0015	0.00021	1
p/m-Xylene	0.0022	J	mg/kg	0.0030	0.00083	1
o-Xylene	0.0013	J	mg/kg	0.0015	0.00043	1
Xylenes, Total	0.0035	J	mg/kg	0.0015	0.00043	1
Isopropylbenzene	0.00050	J	mg/kg	0.0015	0.00016	1
1,3,5-Trimethylbenzene	0.00043	J	mg/kg	0.0030	0.00029	1
1,2,4-Trimethylbenzene	0.0019	J	mg/kg	0.0030	0.00050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	102		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10 D
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 19:18
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	1.3	0.13	10
Benzene	0.11	J	mg/kg	0.32	0.11	10
1,2-Dichloroethane	ND		mg/kg	0.64	0.16	10
Toluene	ND		mg/kg	0.64	0.35	10
1,2-Dibromoethane	ND		mg/kg	0.32	0.19	10
Ethylbenzene	0.20	J	mg/kg	0.64	0.091	10
p/m-Xylene	0.81	J	mg/kg	1.3	0.36	10
o-Xylene	0.27	J	mg/kg	0.64	0.19	10
Xylenes, Total	1.1	J	mg/kg	0.64	0.19	10
Isopropylbenzene	6.6		mg/kg	0.64	0.070	10
1,3,5-Trimethylbenzene	ND		mg/kg	1.3	0.12	10
1,2,4-Trimethylbenzene	0.50	J	mg/kg	1.3	0.22	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	**136**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:58
Analyst: JIC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.15	0.015	1
Benzene	0.016	J	mg/kg	0.038	0.013	1
1,2-Dichloroethane	ND		mg/kg	0.077	0.020	1
Toluene	0.11		mg/kg	0.077	0.042	1
1,2-Dibromoethane	ND		mg/kg	0.038	0.022	1
Ethylbenzene	0.053	J	mg/kg	0.077	0.011	1
p/m-Xylene	0.10	J	mg/kg	0.15	0.043	1
o-Xylene	0.084		mg/kg	0.077	0.022	1
Xylenes, Total	0.18	J	mg/kg	0.077	0.022	1
Isopropylbenzene	1.1		mg/kg	0.077	0.0084	1
1,3,5-Trimethylbenzene	0.023	J	mg/kg	0.15	0.015	1
1,2,4-Trimethylbenzene	0.078	J	mg/kg	0.15	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	**134**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 19:25
Analyst: JIC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.19	0.019	1
Benzene	0.36		mg/kg	0.047	0.016	1
1,2-Dichloroethane	ND		mg/kg	0.094	0.024	1
Toluene	1.2		mg/kg	0.094	0.051	1
1,2-Dibromoethane	ND		mg/kg	0.047	0.028	1
Ethylbenzene	0.18		mg/kg	0.094	0.013	1
p/m-Xylene	1.7		mg/kg	0.19	0.053	1
o-Xylene	0.55		mg/kg	0.094	0.028	1
Xylenes, Total	2.2		mg/kg	0.094	0.028	1
Isopropylbenzene	1.5		mg/kg	0.094	0.010	1
1,3,5-Trimethylbenzene	0.11	J	mg/kg	0.19	0.018	1
1,2,4-Trimethylbenzene	0.30		mg/kg	0.19	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	**152**	Q	70-130
Dibromofluoromethane	84		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:51
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/27/24 00:15
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	112		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-14
Client ID: TB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:59
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-14
Client ID: TB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/27/24 00:39
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	114		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/27/24 14:46
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1914111-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/26/24 21:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1914469-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	112		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05-09 Batch: WG1914738-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 09:50
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1914739-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 11-12 Batch: WG1915057-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1915175-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1914111-2								
1,2-Dibromoethane	**130**	Q	-		80-120	-		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1914469-3 WG1914469-4								
Methyl tert butyl ether	100		100		63-130	0		20
Benzene	110		100		70-130	10		20
1,2-Dichloroethane	100		110		70-130	10		20
Toluene	98		100		70-130	2		20
Ethylbenzene	98		100		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
Isopropylbenzene	95		100		70-130	5		20
1,3,5-Trimethylbenzene	95		99		64-130	4		20
1,2,4-Trimethylbenzene	95		99		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		106		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	89		91		70-130
Dibromofluoromethane	108		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-09 Batch: WG1914738-3 WG1914738-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1914739-3 WG1914739-4								
Methyl tert butyl ether	86		82		66-130	5		30
Benzene	93		97		70-130	4		30
1,2-Dichloroethane	94		92		70-130	2		30
Toluene	88		95		70-130	8		30
1,2-Dibromoethane	88		86		70-130	2		30
Ethylbenzene	93		99		70-130	6		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	91		94		70-130	3		30
Isopropylbenzene	86		97		70-130	12		30
1,3,5-Trimethylbenzene	90		96		70-130	6		30
1,2,4-Trimethylbenzene	89		93		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	111		90		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 11-12 Batch: WG1915057-3 WG1915057-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1915175-3 WG1915175-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 11:57
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.45		mg/kg	0.043	0.026	1
Fluorene	0.60		mg/kg	0.22	0.021	1
Phenanthrene	1.8		mg/kg	0.13	0.026	1
Anthracene	0.21		mg/kg	0.13	0.042	1
Pyrene	0.90		mg/kg	0.13	0.021	1
Benzo(a)anthracene	0.46		mg/kg	0.13	0.024	1
Chrysene	0.43		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	0.49		mg/kg	0.13	0.036	1
Benzo(a)pyrene	0.46		mg/kg	0.17	0.053	1
Benzo(ghi)perylene	0.24		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	60		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 12:20
Analyst: CMM
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.4		mg/kg	0.047	0.029	1
Fluorene	0.83		mg/kg	0.23	0.023	1
Phenanthrene	3.6		mg/kg	0.14	0.028	1
Anthracene	1.9		mg/kg	0.14	0.046	1
Pyrene	6.0		mg/kg	0.14	0.023	1
Benzo(a)anthracene	5.2		mg/kg	0.14	0.026	1
Chrysene	5.3		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	6.6		mg/kg	0.14	0.040	1
Benzo(a)pyrene	6.1		mg/kg	0.19	0.057	1
Benzo(ghi)perylene	3.6		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	50		30-120
4-Terphenyl-d14	44		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 12:43
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.5		mg/kg	0.042	0.025	1
Fluorene	5.0		mg/kg	0.21	0.020	1
Phenanthrene	12.	E	mg/kg	0.12	0.025	1
Anthracene	4.6		mg/kg	0.12	0.040	1
Pyrene	9.7	E	mg/kg	0.12	0.021	1
Benzo(a)anthracene	5.5		mg/kg	0.12	0.023	1
Chrysene	5.2		mg/kg	0.12	0.022	1
Benzo(b)fluoranthene	5.3		mg/kg	0.12	0.035	1
Benzo(a)pyrene	4.7		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	2.4		mg/kg	0.17	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	65		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03 D
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 01:17
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	21.		mg/kg	0.62	0.13	5
Pyrene	17.		mg/kg	0.62	0.10	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:06
Analyst: CMM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.045	0.028	1
Fluorene	3.1		mg/kg	0.23	0.022	1
Phenanthrene	10.	E	mg/kg	0.14	0.028	1
Anthracene	3.7		mg/kg	0.14	0.044	1
Pyrene	6.5		mg/kg	0.14	0.022	1
Benzo(a)anthracene	4.4		mg/kg	0.14	0.026	1
Chrysene	3.4		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	3.6		mg/kg	0.14	0.038	1
Benzo(a)pyrene	3.4		mg/kg	0.18	0.055	1
Benzo(ghi)perylene	1.5		mg/kg	0.18	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	67		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04 D
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/28/24 23:29
Analyst: SZ
Percent Solids: 73%

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	16.		mg/kg	0.68	0.14	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:29
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.1		mg/kg	0.040	0.024	1
Fluorene	0.14	J	mg/kg	0.20	0.019	1
Phenanthrene	0.28		mg/kg	0.12	0.024	1
Anthracene	0.39		mg/kg	0.12	0.038	1
Pyrene	2.7		mg/kg	0.12	0.020	1
Benzo(a)anthracene	3.0		mg/kg	0.12	0.022	1
Chrysene	2.5		mg/kg	0.12	0.020	1
Benzo(b)fluoranthene	3.5		mg/kg	0.12	0.033	1
Benzo(a)pyrene	3.2		mg/kg	0.16	0.048	1
Benzo(ghi)perylene	1.6		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 13:51
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.047	0.029	1
Fluorene	4.5		mg/kg	0.24	0.023	1
Phenanthrene	14.	E	mg/kg	0.14	0.029	1
Anthracene	4.2		mg/kg	0.14	0.046	1
Pyrene	9.8	E	mg/kg	0.14	0.023	1
Benzo(a)anthracene	4.2		mg/kg	0.14	0.026	1
Chrysene	4.4		mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	3.5		mg/kg	0.14	0.040	1
Benzo(a)pyrene	3.4		mg/kg	0.19	0.058	1
Benzo(ghi)perylene	1.6		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	67		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06 D
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 00:41
Analyst: SZ
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	19.		mg/kg	0.71	0.14	5
Pyrene	13.		mg/kg	0.71	0.12	5

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:14
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.70		mg/kg	0.047	0.029	1
Fluorene	0.069	J	mg/kg	0.24	0.023	1
Phenanthrene	0.19		mg/kg	0.14	0.029	1
Anthracene	0.18		mg/kg	0.14	0.046	1
Pyrene	0.86		mg/kg	0.14	0.024	1
Benzo(a)anthracene	0.94		mg/kg	0.14	0.027	1
Chrysene	0.92		mg/kg	0.14	0.025	1
Benzo(b)fluoranthene	1.5		mg/kg	0.14	0.040	1
Benzo(a)pyrene	1.4		mg/kg	0.19	0.058	1
Benzo(ghi)perylene	0.94		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	51		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:36
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.7		mg/kg	0.042	0.026	1
Fluorene	6.7		mg/kg	0.21	0.021	1
Phenanthrene	22.	E	mg/kg	0.13	0.026	1
Anthracene	7.4		mg/kg	0.13	0.041	1
Pyrene	14.	E	mg/kg	0.13	0.021	1
Benzo(a)anthracene	8.1		mg/kg	0.13	0.024	1
Chrysene	6.8		mg/kg	0.13	0.022	1
Benzo(b)fluoranthene	7.0		mg/kg	0.13	0.036	1
Benzo(a)pyrene	6.3		mg/kg	0.17	0.052	1
Benzo(ghi)perylene	2.8		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	59		30-120
4-Terphenyl-d14	60		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08 D
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/29/24 16:10
Analyst: IM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	30.		mg/kg	1.3	0.26	10
Pyrene	16.		mg/kg	1.3	0.21	10

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 14:59
Analyst: CMM
Percent Solids: 62%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.9		mg/kg	0.053	0.032	1
Fluorene	1.2		mg/kg	0.26	0.026	1
Phenanthrene	1.1		mg/kg	0.16	0.032	1
Anthracene	0.90		mg/kg	0.16	0.051	1
Pyrene	5.4		mg/kg	0.16	0.026	1
Benzo(a)anthracene	4.0		mg/kg	0.16	0.030	1
Chrysene	3.7		mg/kg	0.16	0.027	1
Benzo(b)fluoranthene	4.4		mg/kg	0.16	0.044	1
Benzo(a)pyrene	4.0		mg/kg	0.21	0.064	1
Benzo(ghi)perylene	2.0		mg/kg	0.21	0.031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 15:22
Analyst: CMM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.3		mg/kg	0.040	0.024	1
Fluorene	2.7		mg/kg	0.20	0.020	1
Phenanthrene	7.2		mg/kg	0.12	0.024	1
Anthracene	2.3		mg/kg	0.12	0.039	1
Pyrene	4.4		mg/kg	0.12	0.020	1
Benzo(a)anthracene	2.9		mg/kg	0.12	0.023	1
Chrysene	2.4		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	2.7		mg/kg	0.12	0.034	1
Benzo(a)pyrene	2.3		mg/kg	0.16	0.049	1
Benzo(ghi)perylene	1.2		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**127**	Q	23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	70		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11 D
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 15:45
Analyst: CMM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.5		mg/kg	0.22	0.14	5
Fluorene	3.0		mg/kg	1.1	0.11	5
Phenanthrene	7.9		mg/kg	0.68	0.14	5
Anthracene	2.7		mg/kg	0.68	0.22	5
Pyrene	6.2		mg/kg	0.68	0.11	5
Benzo(a)anthracene	3.8		mg/kg	0.68	0.13	5
Chrysene	3.4		mg/kg	0.68	0.12	5
Benzo(b)fluoranthene	3.5		mg/kg	0.68	0.19	5
Benzo(a)pyrene	3.1		mg/kg	0.90	0.27	5
Benzo(ghi)perylene	1.7		mg/kg	0.90	0.13	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**182**	Q	23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	66		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12 D
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/24 16:07
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.84		mg/kg	0.21	0.13	5
Fluorene	1.4		mg/kg	1.0	0.10	5
Phenanthrene	3.9		mg/kg	0.63	0.13	5
Anthracene	1.2		mg/kg	0.63	0.20	5
Pyrene	2.6		mg/kg	0.63	0.10	5
Benzo(a)anthracene	0.79		mg/kg	0.63	0.12	5
Chrysene	1.4		mg/kg	0.63	0.11	5
Benzo(b)fluoranthene	0.70		mg/kg	0.63	0.18	5
Benzo(a)pyrene	0.66	J	mg/kg	0.84	0.26	5
Benzo(ghi)perylene	0.47	J	mg/kg	0.84	0.12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	35		30-120
4-Terphenyl-d14	35		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 13:21
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 18:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	73		15-120
4-Terphenyl-d14	62		41-149

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/24 10:49
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/25/24 17:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1913412-1					
Naphthalene	ND		mg/kg	0.033	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Pyrene	ND		mg/kg	0.099	0.016
Benzo(a)anthracene	ND		mg/kg	0.099	0.019
Chrysene	ND		mg/kg	0.099	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	86		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1913412-2 WG1913412-3								
Naphthalene	72		76		40-140	5		50
Fluorene	80		83		40-140	4		50
Phenanthrene	79		83		40-140	5		50
Anthracene	83		87		40-140	5		50
Pyrene	84		89		35-142	6		50
Benzo(a)anthracene	83		86		40-140	4		50
Chrysene	80		86		40-140	7		50
Benzo(b)fluoranthene	79		88		40-140	11		50
Benzo(a)pyrene	83		90		40-140	8		50
Benzo(ghi)perylene	80		86		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	75		83		23-120
2-Fluorobiphenyl	65		71		30-120
4-Terphenyl-d14	72		81		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	49.5		mg/kg	5.13	0.275	2	04/25/24 17:47	04/26/24 18:56	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	230		mg/kg	5.60	0.300	2	04/25/24 17:47	04/26/24 19:01	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	149		mg/kg	4.96	0.266	2	04/25/24 17:47	04/26/24 19:20	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	81.1		mg/kg	5.32	0.285	2	04/25/24 17:47	04/26/24 19:24	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	74.7		mg/kg	4.82	0.258	2	04/25/24 17:47	04/26/24 19:36	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Lab Number: L2422248
Project Number: 200.00135
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	142		mg/kg	5.56	0.298	2	04/25/24 17:47	04/26/24 19:41	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	109		mg/kg	5.50	0.295	2	04/25/24 17:47	04/26/24 19:45	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	80.6		mg/kg	5.05	0.270	2	04/25/24 17:47	04/26/24 19:50	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	174		mg/kg	6.34	0.340	2	04/25/24 17:47	04/26/24 19:54	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	77.0		mg/kg	4.74	0.254	2	04/25/24 17:47	04/26/24 19:59	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	84.2		mg/kg	5.20	0.278	2	04/25/24 17:47	04/26/24 20:03	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2090		mg/kg	4.91	0.263	2	04/25/24 08:00	04/27/24 19:07	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-13
Client ID: FB-240423
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/23/24 12:30
Date Received: 04/23/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 12:09	EPA 3005A	1,6020B	NTB

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1913014-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 17:47	04/26/24 17:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12 Batch: WG1913016-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/24 08:00	04/25/24 10:19	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913362-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 11:55	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1913014-2								
Lead, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 12 Batch: WG1913016-2								
Lead, Total	103		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913362-2								
Lead, Total	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1913014-3 QC Sample: L2421961-04 Client ID: MS Sample												
Lead, Total	77.5	53.4	132	102		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1913016-3 QC Sample: L2422507-01 Client ID: MS Sample												
Lead, Total	64.4	50.9	119	107		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913362-3 QC Sample: L2419841-01 Client ID: MS Sample												
Lead, Total	ND	530	530.1	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1913014-4 QC Sample: L2421961-04 Client ID: DUP Sample						
Lead, Total	77.5	62.7	mg/kg	**21**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-01
Client ID: GPR225-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:35
Date Received: 04/23/24
Field Prep: Not Specified

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	75.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-02
Client ID: GPR225-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:55
Date Received: 04/23/24
Field Prep: Not Specified

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	70.4		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-03
Client ID: GPR225-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:20
Date Received: 04/23/24
Field Prep: Not Specified

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	78.7		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-04
Client ID: GPR225-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 09:10
Date Received: 04/23/24
Field Prep: Not Specified

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	73.0		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-05
Client ID: GPR225-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 12:00
Date Received: 04/23/24
Field Prep: Not Specified

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	82.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-06
Client ID: GPR225-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:45
Date Received: 04/23/24
Field Prep: Not Specified

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	69.4		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-07
Client ID: GPR225-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 08:25
Date Received: 04/23/24
Field Prep: Not Specified

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	68.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-08
Client ID: GPR225-08-SS01
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 04/23/24 08:00
Date Received: 04/23/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-09
Client ID: GPR225-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:35
Date Received: 04/23/24
Field Prep: Not Specified

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	62.2		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-10
Client ID: GPR225-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 10:35
Date Received: 04/23/24
Field Prep: Not Specified

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	82.0		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-11
Client ID: GPR225-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:00
Date Received: 04/23/24
Field Prep: Not Specified

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	72.8		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

SAMPLE RESULTS

Lab ID: L2422248-12
Client ID: GPR225-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/23/24 11:15
Date Received: 04/23/24
Field Prep: Not Specified

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	78.7		%	0.100	NA	1	-	04/24/24 10:03	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422248

Report Date: 04/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1912538-1 QC Sample: L2422248-01 Client ID: GPR225-01-SS01						
Solids, Total	75.8	75.8	%	0		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-01A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-01B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-01C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-01D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-01E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-01F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-02A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-02B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-02C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-02D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-02E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-02F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-03A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-03B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-03C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-03E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-03F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-04A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-04B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-04C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-04D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-04E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-04F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-05A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-05B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-05C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-05E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-05F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-06A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-06B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-06C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-06D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-06E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-06F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-07A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-07B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-07C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-07D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-07E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-07F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-08A	Vial MeOH preserved	B	NA		3.1	Y	Absent		PA-8260HLW(14)
L2422248-08B	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-08C	Vial water preserved	B	NA		3.1	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-08D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		PB-TI(180)
L2422248-08E	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		PA-PAH(14)
L2422248-08F	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2422248-09A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-09B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-09C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-09E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-09F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-10A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-10B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-10C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-10E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-10F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-11A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-11B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-11C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-11E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-11F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-12A	Vial MeOH preserved	A	NA		3.0	Y	Absent		PA-8260HLW(14)
L2422248-12B	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-12C	Vial water preserved	A	NA		3.0	Y	Absent	24-APR-24 08:19	PA-8260HLW(14)
L2422248-12D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		PB-TI(180)
L2422248-12E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		PA-PAH(14)
L2422248-12F	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2422248-13A	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-13B	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-13C	Vial HCl preserved	A	NA		3.0	Y	Absent		8011(14)
L2422248-13D	Amber 250ml unpreserved	A	7	7	3.0	Y	Absent		PA-PAHSIM-LVI(7)
L2422248-13E	Amber 250ml unpreserved	A	7	7	3.0	Y	Absent		PA-PAHSIM-LVI(7)
L2422248-13F	Plastic 250ml HNO3 preserved	A	<2	<2	3.0	Y	Absent		PB-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422248
Report Date: 04/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422248-14A	Vial HCl preserved	A	NA		3.0	Y	Absent		PA-8260(14)
L2422248-14B	Vial HCl preserved	A	NA		3.0	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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:	PES REFINERY	**Lab Number:**	L2422248
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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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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

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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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2422248
Project Number:	200.00135	**Report Date:**	04/30/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

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Date Rec'd in Lab: 4/24/24

ALPHA Job #: L2422248

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: William.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials		Sample Specific Comments	TOTAL # BOTTLES
22748-01	GPR225-01-5501	4/23/24	9:35	S	ND	X		6
02	GPR225-02-5501		9:55			X		6
03	GPR225-03-5501		10:20			X		6
04	GPR225-04-5501		9:10			X		6
05	GPR225-05-5501		12:05			X		6
06	GPR225-06-5501		8:45			X		6
07	GPR225-07-5501		8:25			X		6
08	GPR225-08-5501		8:00			X		6
09	GPR225-09-5501		11:35			X		6
10	GPR225-10-5501		10:35			X		6

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/23/24 14:55		4-23-24 1455
	4-23-24 1800		4/23/24 1800
	4/23/24 2100		APR 23 2024 2112
Anthony Green	4/24/24 0100	Anthony Green	4/24/24 0100

Rec'd 4/24/24 0315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 4/24/24

ALPHA Job #: L2422248

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS	Sample Specific Comments	TOTAL # BOTTLES
22248-11	GPR225-11-5501	4/23/24	11:00	S	MD	X		6
12	GPR225-12-5501	↓	11:15	↓	↓	X		6
13	FB-240423	↓	12:30	Wtr	↓	X		6
14	TB-240423	4/23/24		Wtr		X		2

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Nathan Dill	4/23/24 14:55	Nelson T	4-23-24 1455
Nelson T	4-23-24 1800		4/23/24 1800
Anthony Green	4/23/24 2100	Anthony Green	APR 23 2024 2142
Anthony Green	4/24/24 0100		4/24/24 0100

2e1 4/27/24 0315
4/24/24 0315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products

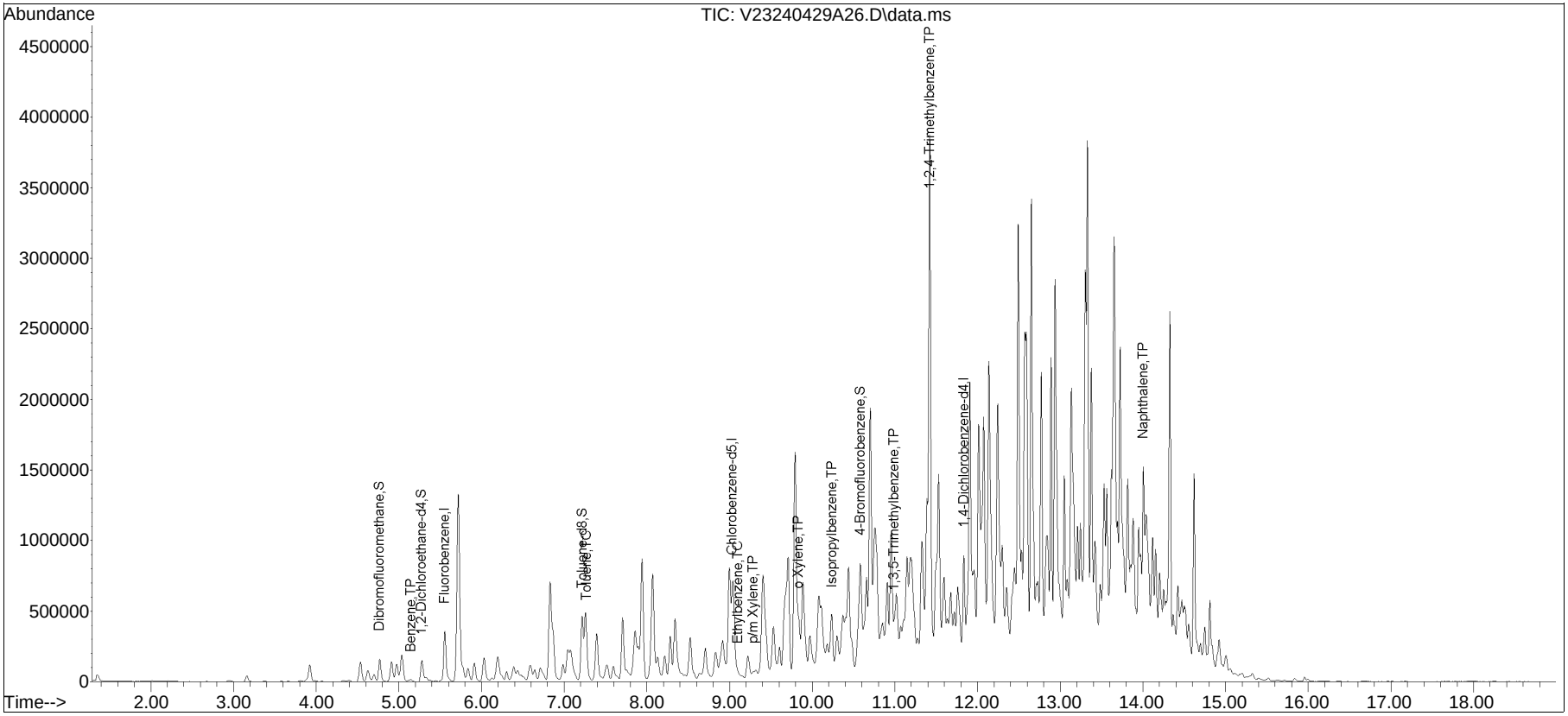
PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Leaded Gasoline, Aviation Gasoline, and Jet Fuel 1	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2- Dibromide)	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2-(Ethylene	EPA Method 5030B/8021B, 5030B/8260B or 524.2 EPA Method 8011 or 504.1
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Unleaded Gasoline 2	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Kerosene, Fuel Oil No. 1 3	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Diesel Fuel, Fuel Oil No. 2 4	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2

Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240429A\
Data File : V23240429A26.D
Acq On : 29 Apr 2024 07:18 pm
Operator : VOA123:AJK
Sample : L2422248-10D,31H,5.69,5,0.01,,A
Misc : WG1914739,ICAL20839
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 30 07:51:47 2024
Quant Method : K:\VOA123\2024\240429A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

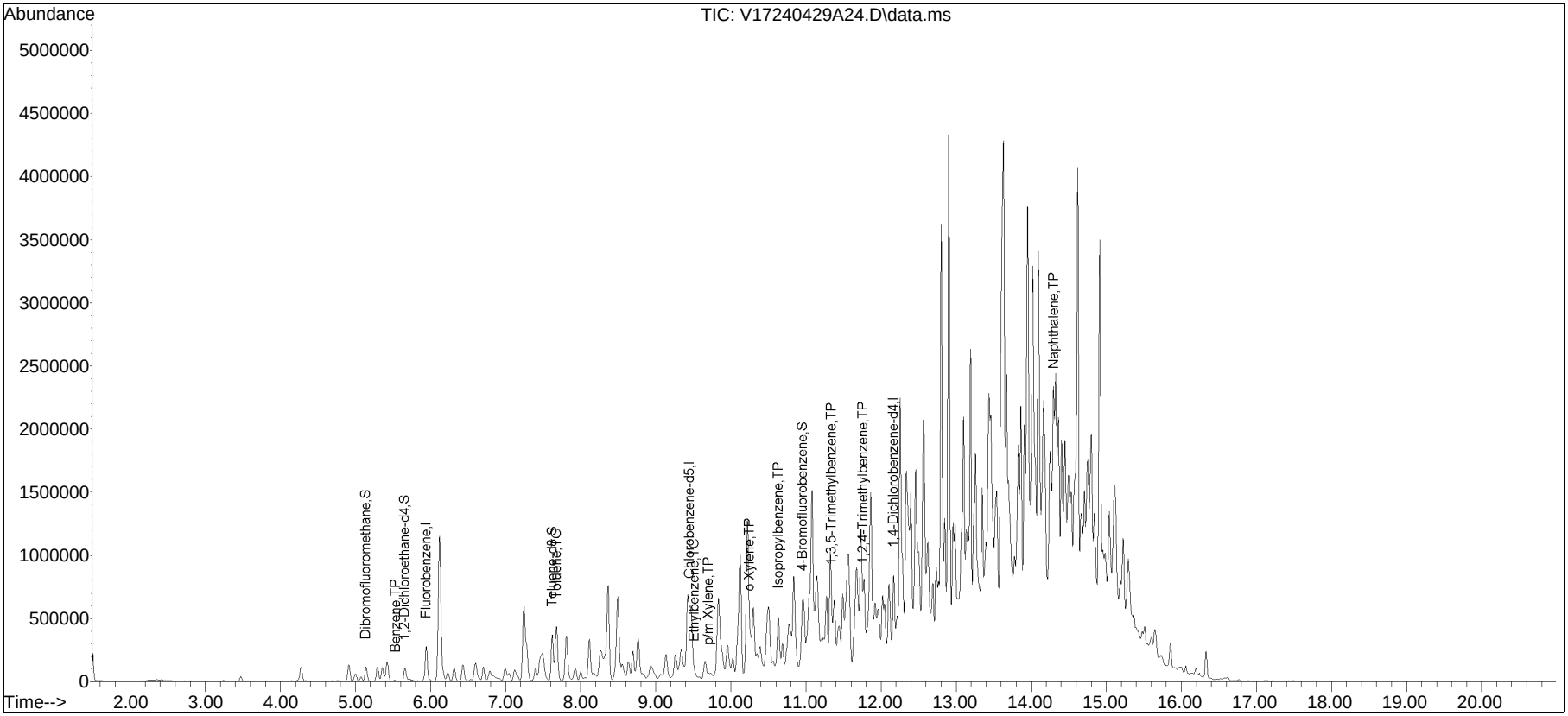


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A24.D
Acq On : 29 Apr 2024 06:58 pm
Operator : VOA117:JIC
Sample : l2422248-11,31h,5.9,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 30 08:39:47 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

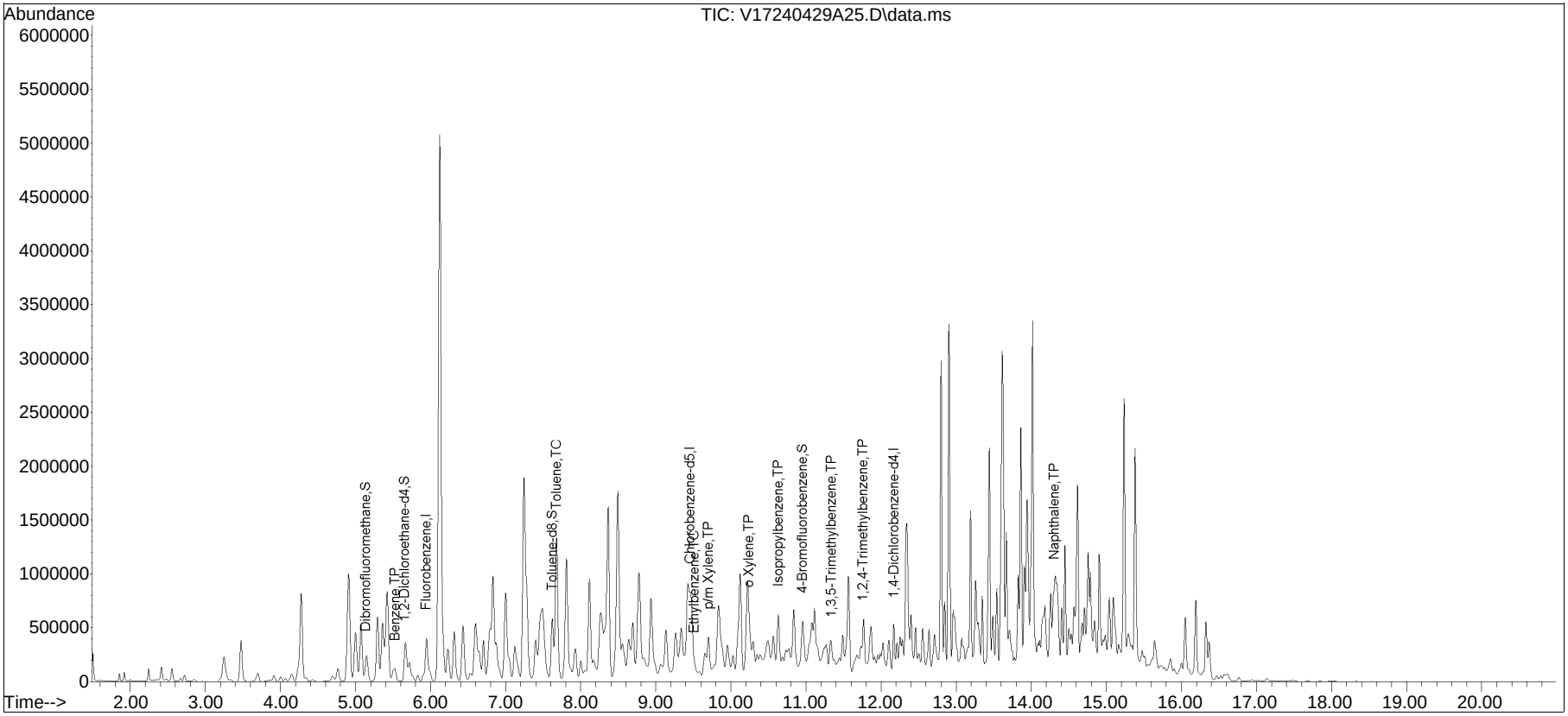


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A25.D
Acq On : 29 Apr 2024 07:25 pm
Operator : VOA117:JIC
Sample : l2422248-12,31h,3.92,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 30 08:40:03 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•



ANALYTICAL REPORT

Lab Number:	L2422575
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PES REFINERY
Project Number:	200.00135
Report Date:	05/01/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422575-01	GPR227-01-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:00	04/24/24
L2422575-02	GPR227-02-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:25	04/24/24
L2422575-03	GPR227-03-SS01	SOIL	PHILADELPHIA, PA	04/24/24 11:50	04/24/24
L2422575-04	GPR227-04-SS01	SOIL	PHILADELPHIA, PA	04/24/24 10:45	04/24/24
L2422575-05	GPR227-05-SS01	SOIL	PHILADELPHIA, PA	04/24/24 12:25	04/24/24
L2422575-06	GPR227-06-SS01	SOIL	PHILADELPHIA, PA	04/24/24 10:25	04/24/24
L2422575-07	GPR227-07-SS01	SOIL	PHILADELPHIA, PA	04/24/24 09:55	04/24/24
L2422575-08	GPR227-08-SS01	SOIL	PHILADELPHIA, PA	04/24/24 12:50	04/24/24
L2422575-09	GPR227-09-SS01	SOIL	PHILADELPHIA, PA	04/24/24 13:40	04/24/24
L2422575-10	GPR227-10-SS01	SOIL	PHILADELPHIA, PA	04/24/24 14:20	04/24/24
L2422575-11	GPR227-11-SS01	SOIL	PHILADELPHIA, PA	04/24/24 14:00	04/24/24
L2422575-12	GPR227-12-SS01	SOIL	PHILADELPHIA, PA	04/24/24 13:15	04/24/24
L2422575-13	FB-240424	WATER	PHILADELPHIA, PA	04/24/24 12:00	04/24/24
L2422575-14	TB-240424	WATER	PHILADELPHIA, PA	04/19/24 00:00	04/24/24

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

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.

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2422575-01, -10, and -12: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries for the following samples are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with obvious interferences. Copies of the chromatograms are included as an attachment to this report:

L2422575-01: 152%

L2422575-03: 142%

L2422575-10: 140%

L2422575-12: 143%

L2422575-05: The internal standard (IS) responses for fluorobenzene (48%), chlorobenzene-d5 (38%), and 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (275%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (37%), toluene-d8 (148%), and 4-bromofluorobenzene (1190%). The results of both analyses are reported; however, since the IS responses were below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L2422575-07: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (245%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (35%) and 4-bromofluorobenzene (428%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L2422575-09: The internal standard (IS) response for and 1,4-dichlorobenzene-d4 (27%) and the surrogate recovery for toluene-d8 (134%) and 4-bromofluorobenzene (254%) were outside the acceptance criteria;

Project Name: PES REFINERY **Lab Number:** L2422575
Project Number: 200.00135 **Report Date:** 05/01/24

Case Narrative (continued)

however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (41%) and 4-bromofluorobenzene (179%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.
L2422575-11: The internal standard (IS) responses for chlorobenzene-d5 (48%) and 1,4-dichlorobenzene-d4 (20%) and the surrogate recoveries for toluene-d8 (139%) and 4-bromofluorobenzene (213%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (43%), 1,4-dichlorobenzene-d4 (16%), toluene-d8 (151%), and 4-bromofluorobenzene (449%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

Microextractables
L2422575-13 and -14: The sample was not appropriately preserved. With the client's authorizatoin, the analysis was performed on an HCl preserved vial.
The WG1914111-2 LCS recovery for 1,2-dibromoethane (130%), associated with L2422575-13 and -14, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

PAHs
L2422575-01, -05, -07, and -09: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.
L2422575-01, -07, and -11: The sample has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

Total Metals
L2422575-01 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 05/01/24

ORGANICS

VOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 18:05
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.16	0.016	1
Benzene	0.022	J	mg/kg	0.040	0.013	1
1,2-Dichloroethane	ND		mg/kg	0.080	0.020	1
Toluene	0.16		mg/kg	0.080	0.043	1
1,2-Dibromoethane	ND		mg/kg	0.040	0.023	1
Ethylbenzene	0.079	J	mg/kg	0.080	0.011	1
p/m-Xylene	0.28		mg/kg	0.16	0.045	1
o-Xylene	0.31		mg/kg	0.080	0.023	1
Xylenes, Total	0.59		mg/kg	0.080	0.023	1
Isopropylbenzene	0.45		mg/kg	0.080	0.0087	1
1,3,5-Trimethylbenzene	0.26		mg/kg	0.16	0.015	1
1,2,4-Trimethylbenzene	1.1		mg/kg	0.16	0.027	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**152**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 13:36
Analyst: RAW
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00026	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Toluene	ND		mg/kg	0.0013	0.00069	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00071	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0025	0.00042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/29/24 17:39
Analyst: JIC
Percent Solids: 88%

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	0.00015	J	mg/kg	0.00046	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00092	0.00024	1
Toluene	0.00075	J	mg/kg	0.00092	0.00050	1
1,2-Dibromoethane	ND		mg/kg	0.00046	0.00027	1
Ethylbenzene	ND		mg/kg	0.00092	0.00013	1
p/m-Xylene	0.00076	J	mg/kg	0.0018	0.00052	1
o-Xylene	0.0025		mg/kg	0.00092	0.00027	1
Xylenes, Total	0.0033	J	mg/kg	0.00092	0.00027	1
Isopropylbenzene	0.00038	J	mg/kg	0.00092	0.00010	1
1,3,5-Trimethylbenzene	0.00030	J	mg/kg	0.0018	0.00018	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0018	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	**142**	Q	70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:02
Analyst: RAW
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0022	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 16:38
Analyst: RAW
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	0.0012	J	mg/kg	0.0021	0.00058	1
o-Xylene	0.0029		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.0041	J	mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.0032		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.0028		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	**275**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05 R
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:02
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	0.00068	J	mg/kg	0.0011	0.00059	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	0.00025	J	mg/kg	0.0011	0.00015	1
p/m-Xylene	0.0019	J	mg/kg	0.0022	0.00061	1
o-Xylene	0.0032		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.0051	J	mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.0041		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00039	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.0018	J	mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	**148**	Q	70-130
4-Bromofluorobenzene	**1190**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:54
Analyst: RAW
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 15:46
Analyst: RAW
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	0.00032	J	mg/kg	0.00055	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	0.0010	J	mg/kg	0.0011	0.00060	1
1,2-Dibromoethane	ND		mg/kg	0.00055	0.00032	1
Ethylbenzene	0.00052	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0058		mg/kg	0.0022	0.00062	1
o-Xylene	0.042		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.048		mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.047		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0010	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.019		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	**245**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07 R
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:28
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
Benzene	0.00023	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00030	1
Toluene	0.00098	J	mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00034	1
Ethylbenzene	0.00046	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0056		mg/kg	0.0023	0.00064	1
o-Xylene	0.029		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.035		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.037		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.00055	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.011		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	**428**	Q	70-130
Dibromofluoromethane	91		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 14:28
Analyst: RAW
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00057	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Isopropylbenzene	0.00023	J	mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 15:20
Analyst: RAW
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	0.0021	0.00021	1
Benzene	0.00037	J	mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	0.00068	J	mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	0.00061	J	mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0071		mg/kg	0.0021	0.00058	1
o-Xylene	0.0068		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.014		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.017		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.010		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.020		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	**134**	Q	70-130
4-Bromofluorobenzene	**254**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09 R
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 10:53
Analyst: AJK
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	0.0023	0.00023	1
Benzene	0.00022	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	ND		mg/kg	0.0011	0.00062	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
Ethylbenzene	0.00045	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0046		mg/kg	0.0023	0.00064	1
o-Xylene	0.0046		mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0092		mg/kg	0.0011	0.00033	1
Isopropylbenzene	0.0083		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0073		mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.017		mg/kg	0.0023	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	**179**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 17:04
Analyst: RAW
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	ND		mg/kg	0.030	0.010	1
1,2-Dichloroethane	ND		mg/kg	0.060	0.015	1
Toluene	ND		mg/kg	0.060	0.032	1
1,2-Dibromoethane	ND		mg/kg	0.030	0.018	1
Ethylbenzene	0.014	J	mg/kg	0.060	0.0085	1
p/m-Xylene	0.045	J	mg/kg	0.12	0.034	1
o-Xylene	0.018	J	mg/kg	0.060	0.017	1
Xylenes, Total	0.063	J	mg/kg	0.060	0.017	1
Isopropylbenzene	0.67		mg/kg	0.060	0.0065	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.12	0.012	1
1,2,4-Trimethylbenzene	0.031	J	mg/kg	0.12	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	**140**	Q	70-130
Dibromofluoromethane	89		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 16:12
Analyst: RAW
Percent Solids: 87%

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	0.0025		mg/kg	0.00045	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00090	0.00023	1
Toluene	0.011		mg/kg	0.00090	0.00049	1
1,2-Dibromoethane	ND		mg/kg	0.00045	0.00026	1
Ethylbenzene	0.0080		mg/kg	0.00090	0.00013	1
p/m-Xylene	0.021		mg/kg	0.0018	0.00050	1
o-Xylene	0.018		mg/kg	0.00090	0.00026	1
Xylenes, Total	0.039		mg/kg	0.00090	0.00026	1
Isopropylbenzene	0.018		mg/kg	0.00090	0.00009	1
1,3,5-Trimethylbenzene	0.014		mg/kg	0.0018	0.00017	1
1,2,4-Trimethylbenzene	0.046		mg/kg	0.0018	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	**139**	Q	70-130
4-Bromofluorobenzene	**213**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11 R
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/01/24 11:19
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	0.0022		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	0.014		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
Ethylbenzene	0.011		mg/kg	0.0010	0.00015	1
p/m-Xylene	0.029		mg/kg	0.0021	0.00058	1
o-Xylene	0.024		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.053		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.027		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.020		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.062		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	**151**	Q	70-130
4-Bromofluorobenzene	**449**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/30/24 17:30
Analyst: RAW
Percent Solids: 87%

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	0.031	J	mg/kg	0.032	0.011	1
1,2-Dichloroethane	ND		mg/kg	0.064	0.016	1
Toluene	ND		mg/kg	0.064	0.035	1
1,2-Dibromoethane	ND		mg/kg	0.032	0.019	1
Ethylbenzene	0.012	J	mg/kg	0.064	0.0090	1
p/m-Xylene	0.050	J	mg/kg	0.13	0.036	1
o-Xylene	0.042	J	mg/kg	0.064	0.019	1
Xylenes, Total	0.092	J	mg/kg	0.064	0.019	1
Isopropylbenzene	0.74		mg/kg	0.064	0.0070	1
1,3,5-Trimethylbenzene	0.027	J	mg/kg	0.13	0.012	1
1,2,4-Trimethylbenzene	0.053	J	mg/kg	0.13	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**143**	Q	70-130
Dibromofluoromethane	92		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:35
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/29/24 22:54
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-14
Client ID: TB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8011
Analytical Date: 04/27/24 15:43
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

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	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-14
Client ID: TB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/19/24 00:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/29/24 23:19
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8011
Analytical Date: 04/27/24 14:46
Analyst: JKH

Extraction Method: EPA 8011
Extraction Date: 04/27/24 08:09

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 13-14 Batch: WG1914111-1						
1,2-Dibromoethane	ND		ug/l	0.010	0.005	A

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1915050-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 10:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1915057-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,04-09,11 Batch: WG1915175-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/29/24 20:22
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1915248-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/30/24 09:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 10,12 Batch: WG1915548-5					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Toluene	ND		mg/kg	0.050	0.027
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/01/24 09:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05,07,09,11 Batch: WG1915792-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 13-14 Batch: WG1914111-2								
1,2-Dibromoethane	**130**	Q	-		80-120	-		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1915050-3 WG1915050-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1915057-3 WG1915057-4								
Methyl tert butyl ether	94		83		66-130	12		30
Benzene	100		82		70-130	20		30
1,2-Dichloroethane	106		94		70-130	12		30
Toluene	103		85		70-130	19		30
1,2-Dibromoethane	100		92		70-130	8		30
Ethylbenzene	106		86		70-130	21		30
p/m-Xylene	107		88		70-130	19		30
o-Xylene	104		88		70-130	17		30
Isopropylbenzene	111		87		70-130	24		30
1,3,5-Trimethylbenzene	108		88		70-130	20		30
1,2,4-Trimethylbenzene	108		87		70-130	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,04-09,11 Batch: WG1915175-3 WG1915175-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1915248-3 WG1915248-4								
Methyl tert butyl ether	73		72		63-130	1		20
Benzene	98		94		70-130	4		20
1,2-Dichloroethane	86		83		70-130	4		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		97		70-130	3		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
Isopropylbenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		96		64-130	4		20
1,2,4-Trimethylbenzene	91		88		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	83		82		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 10,12 Batch: WG1915548-3 WG1915548-4								
Methyl tert butyl ether	84		81		66-130	4		30
Benzene	87		85		70-130	2		30
1,2-Dichloroethane	86		84		70-130	2		30
Toluene	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	88		86		70-130	2		30
Isopropylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	89		88		70-130	1		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05,07,09,11 Batch: WG1915792-3 WG1915792-4								
Methyl tert butyl ether	88		87		66-130	1		30
Benzene	97		96		70-130	1		30
1,2-Dichloroethane	88		88		70-130	0		30
Toluene	98		98		70-130	0		30
Ethylbenzene	101		101		70-130	0		30
p/m-Xylene	101		102		70-130	1		30
o-Xylene	97		98		70-130	1		30
Isopropylbenzene	104		103		70-130	1		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	99		93		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 11:28
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	3.8		mg/kg	0.23	0.14	2
Fluorene	5.4		mg/kg	1.1	0.11	2
Phenanthrene	19.		mg/kg	0.68	0.14	2
Anthracene	5.8		mg/kg	0.68	0.22	2
Pyrene	18.		mg/kg	0.68	0.11	2
Benzo(a)anthracene	12.		mg/kg	0.68	0.13	2
Chrysene	12.		mg/kg	0.68	0.12	2
Benzo(b)fluoranthene	15.		mg/kg	0.68	0.19	2
Benzo(a)pyrene	14.		mg/kg	0.91	0.28	2
Benzo(ghi)perylene	7.4		mg/kg	0.91	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	64		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 11:51
Analyst: CMM
Percent Solids: 69%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.073		mg/kg	0.047	0.028	1
Fluorene	ND		mg/kg	0.23	0.023	1
Phenanthrene	ND		mg/kg	0.14	0.028	1
Anthracene	ND		mg/kg	0.14	0.046	1
Pyrene	0.11	J	mg/kg	0.14	0.023	1
Benzo(a)anthracene	0.11	J	mg/kg	0.14	0.026	1
Chrysene	0.096	J	mg/kg	0.14	0.024	1
Benzo(b)fluoranthene	0.15		mg/kg	0.14	0.039	1
Benzo(a)pyrene	0.12	J	mg/kg	0.19	0.057	1
Benzo(ghi)perylene	0.065	J	mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	63		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 12:14
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	2.0		mg/kg	0.038	0.023	1
Fluorene	1.3		mg/kg	0.19	0.018	1
Phenanthrene	3.3		mg/kg	0.11	0.023	1
Anthracene	2.0		mg/kg	0.11	0.036	1
Pyrene	5.3		mg/kg	0.11	0.019	1
Benzo(a)anthracene	4.1		mg/kg	0.11	0.021	1
Chrysene	3.8		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	5.2		mg/kg	0.11	0.032	1
Benzo(a)pyrene	4.4		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	2.3		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 12:38
Analyst: CMM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.7		mg/kg	0.040	0.025	1
Fluorene	0.47		mg/kg	0.20	0.020	1
Phenanthrene	1.8		mg/kg	0.12	0.025	1
Anthracene	0.86		mg/kg	0.12	0.040	1
Pyrene	4.9		mg/kg	0.12	0.020	1
Benzo(a)anthracene	4.2		mg/kg	0.12	0.023	1
Chrysene	3.7		mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	5.6		mg/kg	0.12	0.034	1
Benzo(a)pyrene	4.5		mg/kg	0.16	0.049	1
Benzo(ghi)perylene	2.2		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:01
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.56		mg/kg	0.10	0.064	1
Fluorene	2.4		mg/kg	0.52	0.051	1
Phenanthrene	6.4		mg/kg	0.31	0.064	1
Anthracene	3.0		mg/kg	0.31	0.10	1
Pyrene	6.3		mg/kg	0.31	0.052	1
Benzo(a)anthracene	3.0		mg/kg	0.31	0.059	1
Chrysene	3.7		mg/kg	0.31	0.054	1
Benzo(b)fluoranthene	3.3		mg/kg	0.31	0.088	1
Benzo(a)pyrene	3.1		mg/kg	0.42	0.13	1
Benzo(ghi)perylene	2.0		mg/kg	0.42	0.062	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	58		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:24
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.81		mg/kg	0.042	0.025	1
Fluorene	0.51		mg/kg	0.21	0.020	1
Phenanthrene	2.2		mg/kg	0.12	0.025	1
Anthracene	0.62		mg/kg	0.12	0.041	1
Pyrene	2.5		mg/kg	0.12	0.021	1
Benzo(a)anthracene	1.4		mg/kg	0.12	0.023	1
Chrysene	1.7		mg/kg	0.12	0.022	1
Benzo(b)fluoranthene	1.6		mg/kg	0.12	0.035	1
Benzo(a)pyrene	1.4		mg/kg	0.17	0.051	1
Benzo(ghi)perylene	0.96		mg/kg	0.17	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	41		23-120
2-Fluorobiphenyl	45		30-120
4-Terphenyl-d14	40		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 13:47
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.5		mg/kg	0.23	0.14	2
Fluorene	4.2		mg/kg	1.2	0.11	2
Phenanthrene	15.		mg/kg	0.70	0.14	2
Anthracene	4.2		mg/kg	0.70	0.23	2
Pyrene	9.5		mg/kg	0.70	0.12	2
Benzo(a)anthracene	4.3		mg/kg	0.70	0.13	2
Chrysene	5.7		mg/kg	0.70	0.12	2
Benzo(b)fluoranthene	3.4		mg/kg	0.70	0.20	2
Benzo(a)pyrene	3.5		mg/kg	0.93	0.28	2
Benzo(ghi)perylene	1.6		mg/kg	0.93	0.14	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	43		30-120
4-Terphenyl-d14	35		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:11
Analyst: CMM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	5.0		mg/kg	0.041	0.025	1
Fluorene	11.	E	mg/kg	0.20	0.020	1
Phenanthrene	44.	E	mg/kg	0.12	0.025	1
Anthracene	6.3		mg/kg	0.12	0.040	1
Pyrene	32.	E	mg/kg	0.12	0.020	1
Benzo(a)anthracene	22.	E	mg/kg	0.12	0.023	1
Chrysene	16.	E	mg/kg	0.12	0.021	1
Benzo(b)fluoranthene	24.	E	mg/kg	0.12	0.035	1
Benzo(a)pyrene	19.	E	mg/kg	0.16	0.050	1
Benzo(ghi)perylene	7.1		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	54		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08 D
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/01/24 10:49
Analyst: IM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluorene	11.		mg/kg	4.1	0.40	20
Phenanthrene	44.		mg/kg	2.5	0.50	20
Pyrene	34.		mg/kg	2.5	0.41	20
Benzo(a)anthracene	21.		mg/kg	2.5	0.46	20
Chrysene	16.		mg/kg	2.5	0.43	20
Benzo(b)fluoranthene	19.		mg/kg	2.5	0.69	20
Benzo(a)pyrene	17.		mg/kg	3.3	1.0	20

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:34
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.2		mg/kg	0.12	0.071	1
Fluorene	1.8		mg/kg	0.58	0.057	1
Phenanthrene	11.		mg/kg	0.35	0.071	1
Anthracene	3.3		mg/kg	0.35	0.11	1
Pyrene	14.		mg/kg	0.35	0.058	1
Benzo(a)anthracene	8.4		mg/kg	0.35	0.066	1
Chrysene	10.		mg/kg	0.35	0.061	1
Benzo(b)fluoranthene	7.0		mg/kg	0.35	0.098	1
Benzo(a)pyrene	6.8		mg/kg	0.47	0.14	1
Benzo(ghi)perylene	3.2		mg/kg	0.47	0.068	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	43		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 14:57
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	0.72		mg/kg	0.037	0.023	1
Fluorene	2.4		mg/kg	0.19	0.018	1
Phenanthrene	2.2		mg/kg	0.11	0.023	1
Anthracene	0.74		mg/kg	0.11	0.036	1
Pyrene	2.1		mg/kg	0.11	0.018	1
Benzo(a)anthracene	2.1		mg/kg	0.11	0.021	1
Chrysene	1.9		mg/kg	0.11	0.019	1
Benzo(b)fluoranthene	2.8		mg/kg	0.11	0.031	1
Benzo(a)pyrene	2.5		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	1.2		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	56		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 15:21
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	4.3		mg/kg	0.075	0.046	2
Fluorene	1.2		mg/kg	0.37	0.036	2
Phenanthrene	5.1		mg/kg	0.22	0.045	2
Anthracene	2.2		mg/kg	0.22	0.073	2
Pyrene	10.		mg/kg	0.22	0.037	2
Benzo(a)anthracene	8.2		mg/kg	0.22	0.042	2
Chrysene	8.1		mg/kg	0.22	0.039	2
Benzo(b)fluoranthene	8.6		mg/kg	0.22	0.063	2
Benzo(a)pyrene	7.7		mg/kg	0.30	0.091	2
Benzo(ghi)perylene	3.3		mg/kg	0.30	0.044	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	71		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/24 15:44
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/26/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	1.1		mg/kg	0.038	0.023	1
Fluorene	2.6		mg/kg	0.19	0.018	1
Phenanthrene	6.6		mg/kg	0.11	0.023	1
Anthracene	1.8		mg/kg	0.11	0.037	1
Pyrene	5.9		mg/kg	0.11	0.019	1
Benzo(a)anthracene	4.1		mg/kg	0.11	0.021	1
Chrysene	3.7		mg/kg	0.11	0.020	1
Benzo(b)fluoranthene	5.2		mg/kg	0.11	0.032	1
Benzo(a)pyrene	3.8		mg/kg	0.15	0.046	1
Benzo(ghi)perylene	1.5		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	42		18-120

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 12:35
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 18:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	ND		ug/l	0.10	0.05	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.05	0.02	1
Anthracene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Chrysene	ND		ug/l	0.10	0.01	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.05	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	76		15-120
4-Terphenyl-d14	80		41-149

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/27/24 07:57
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/26/24 20:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1914010-1					
Naphthalene	ND		mg/kg	0.033	0.020
Fluorene	ND		mg/kg	0.16	0.016
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Pyrene	ND		mg/kg	0.099	0.016
Benzo(a)anthracene	ND		mg/kg	0.099	0.018
Chrysene	ND		mg/kg	0.099	0.017
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	76		18-120

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/28/24 08:54
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/27/24 07:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13 Batch: WG1914094-1					
Naphthalene	ND		ug/l	0.10	0.05
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.05	0.02
Anthracene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Chrysene	ND		ug/l	0.10	0.01
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	43		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1914010-2 WG1914010-3								
Naphthalene	72		69		40-140	4		50
Fluorene	72		73		40-140	1		50
Phenanthrene	73		73		40-140	0		50
Anthracene	74		75		40-140	1		50
Pyrene	77		77		35-142	0		50
Benzo(a)anthracene	76		76		40-140	0		50
Chrysene	78		78		40-140	0		50
Benzo(b)fluoranthene	83		83		40-140	0		50
Benzo(a)pyrene	84		83		40-140	1		50
Benzo(ghi)perylene	76		76		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		70		25-120
Phenol-d6	74		72		10-120
Nitrobenzene-d5	73		70		23-120
2-Fluorobiphenyl	72		70		30-120
2,4,6-Tribromophenol	74		72		10-136
4-Terphenyl-d14	69		67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13 Batch: WG1914094-2 WG1914094-3								
Naphthalene	69		62		40-140	11		40
Fluorene	71		67		40-140	6		40
Phenanthrene	69		66		40-140	4		40
Anthracene	71		68		40-140	4		40
Pyrene	63		61		26-127	3		40
Benzo(a)anthracene	77		74		40-140	4		40
Chrysene	71		69		40-140	3		40
Benzo(b)fluoranthene	68		66		40-140	3		40
Benzo(a)pyrene	66		64		40-140	3		40
Benzo(ghi)perylene	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	63		57		15-120
4-Terphenyl-d14	47		45		41-149

METALS

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	162		mg/kg	4.55	0.244	2	04/30/24 07:20	04/30/24 21:43	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	14.6		mg/kg	5.45	0.292	2	04/30/24 07:20	04/30/24 20:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	74.6		mg/kg	4.38	0.235	2	04/30/24 07:20	04/30/24 21:47	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	48.5		mg/kg	4.82	0.258	2	04/30/24 07:20	04/30/24 21:52	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	32.1		mg/kg	4.35	0.233	2	04/30/24 07:20	04/30/24 21:56	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	497		mg/kg	4.97	0.266	2	04/30/24 07:20	04/30/24 22:01	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	114		mg/kg	4.92	0.264	2	04/30/24 07:20	04/30/24 22:05	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	92.5		mg/kg	4.95	0.265	2	04/30/24 07:20	04/30/24 19:14	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	118		mg/kg	4.69	0.252	2	04/30/24 07:20	04/30/24 19:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	49.3		mg/kg	4.27	0.229	2	04/30/24 07:20	04/30/24 19:23	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	55.4		mg/kg	4.42	0.237	2	04/30/24 07:20	04/30/24 22:19	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	30.2		mg/kg	4.52	0.242	2	04/30/24 07:20	04/30/24 22:23	EPA 3050B	1,6010D	JMF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-13
Client ID: FB-240424
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/24/24 12:00
Date Received: 04/24/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/30/24 14:58	EPA 3005A	1,6020B	EJF

Project Name: PES REFINERY
Project Number: 200.00135
Lab Number: L2422575
Report Date: 05/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1913362-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	04/25/24 22:55	04/29/24 11:55	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1913879-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/30/24 07:20	04/30/24 20:10	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1913362-2								
Lead, Total	94		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1913879-2								
Lead, Total	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1913362-3 QC Sample: L2419841-01 Client ID: MS Sample												
Lead, Total	ND	530	530.1	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1913879-3 QC Sample: L2422575-02 Client ID: GPR227-02-SS01												
Lead, Total	14.6	57.6	75.7	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1913879-4 QC Sample: L2422575-02 Client ID: GPR227-02-SS01						
Lead, Total	14.6	14.3	mg/kg	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-01
Client ID: GPR227-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:00
Date Received: 04/24/24
Field Prep: Not Specified

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	84.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-02
Client ID: GPR227-02-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:25
Date Received: 04/24/24
Field Prep: Not Specified

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	69.3		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-03
Client ID: GPR227-03-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 11:50
Date Received: 04/24/24
Field Prep: Not Specified

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	88.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-04
Client ID: GPR227-04-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:45
Date Received: 04/24/24
Field Prep: Not Specified

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	81.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-05
Client ID: GPR227-05-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:25
Date Received: 04/24/24
Field Prep: Not Specified

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	89.0		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-06
Client ID: GPR227-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 10:25
Date Received: 04/24/24
Field Prep: Not Specified

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	78.8		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-07
Client ID: GPR227-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 09:55
Date Received: 04/24/24
Field Prep: Not Specified

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	78.2		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-08
Client ID: GPR227-08-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 12:50
Date Received: 04/24/24
Field Prep: Not Specified

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	79.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-09
Client ID: GPR227-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:40
Date Received: 04/24/24
Field Prep: Not Specified

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	82.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-10
Client ID: GPR227-10-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:20
Date Received: 04/24/24
Field Prep: Not Specified

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	88.9		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-11
Client ID: GPR227-11-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 14:00
Date Received: 04/24/24
Field Prep: Not Specified

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	87.4		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

SAMPLE RESULTS

Lab ID: L2422575-12
Client ID: GPR227-12-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 04/24/24 13:15
Date Received: 04/24/24
Field Prep: Not Specified

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	86.5		%	0.100	NA	1	-	04/25/24 12:18	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PES REFINERY

Project Number: 200.00135

Lab Number: L2422575

Report Date: 05/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1913152-1 QC Sample: L2422575-01 Client ID: GPR227-01-SS01						
Solids, Total	84.4	83.8	%	1		20

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-01A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-01B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-01C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-01D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-01F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-02A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-02B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-02C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-02D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-02F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-03A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-03B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-03C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-03D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-03F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-04A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-04B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-04C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-04D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-04F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-05A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-05B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-05C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-05D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-05F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-06A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-06B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-06C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-06D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-06F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-07A	Vial MeOH preserved	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2422575-07B	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-07C	Vial water preserved	A	NA		2.1	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-07D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2422575-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L2422575-07F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		PA-PAH(14)
L2422575-08A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-08B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-08C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-08D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-08F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-09A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-09B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-09C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-09D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-09E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-09F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-10A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-10B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-10C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-10D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-10F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-11A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-11B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-11C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-11D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-11F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-12A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2422575-12B	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-12C	Vial water preserved	B	NA		3.5	Y	Absent	25-APR-24 09:53	PA-8260HLW(14)
L2422575-12D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2422575-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		PB-TI(180)
L2422575-12F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		PA-PAH(14)
L2422575-13A	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-13B	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-13C	Vial HCl preserved	B	NA		3.5	Y	Absent		8011(14)
L2422575-13D	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		PB-6020T-PPB(180)
L2422575-13E	Amber 250ml unpreserved	B	NA		3.5	Y	Absent		PA-PAHSIM-LVI(7)
L2422575-13F	Amber 250ml unpreserved	B	NA		3.5	Y	Absent		PA-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: PES REFINERY
Project Number: 200.00135

Lab Number: L2422575
Report Date: 05/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422575-14A	Vial HCl preserved	B	NA		3.5	Y	Absent		PA-8260(14)
L2422575-14B	Vial HCl preserved	B	NA		3.5	Y	Absent		8011(14)

*Values in parentheses indicate holding time in days

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

GLOSSARY

Acronyms

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.)
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).
EMPC	- 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.)
LOQ	- 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.
MS	- 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:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

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.

V - 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.)

Project Name:	PES REFINERY	**Lab Number:**	L2422575
Project Number:	200.00135	**Report Date:**	05/01/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

CHAIN OF CUSTODY

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Date Rec'd in Lab: 4/25/24

ALPHA Job #: L2422575

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Short List 1-5 (see attached)

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Short List 1-5	Sample Specific Comments	TOTAL # BOTTLES
22575-01	GPR227-01-5501	4/24/24	11:00	S	NJD	X		6
02	GPR227-02-5501		11:25			X		6
03	GPR227-03-5501		11:50			X		6
04	GPR227-04-5501		12:45			X		6
05	GPR227-05-5501		12:25			X		6
06	GPR227-06-5501		10:25			X		6
07	GPR227-07-5501		9:55			X		6
08	GPR227-08-5501		12:50			X		6
09	GPR227-09-5501		13:40			X		6
10	GPR227-10-5501		14:20			X		6

Rec: 4/25/24 0325
4/25/24 0325

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
	4/24/24 15:45		4/24/24 16:18
	4/24/24 1800		4/24/24 1800
	4/24/24 2100	Anthony Green	APR 24 2024 2220
Anthony Green	4/25/24 0325		4/25/24 0325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 4/25/24

ALPHA Job #: L2422575

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609-584-0090
Fax:
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PES Refinery
Project Location: Philadelphia, PA
Project #: 202,00135
Project Manager: William Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Short List 1-5 (see attached)	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
22575-01	GPR227-11-5501	4/24/24	14:00	S	ND	X			6
02	GPR227-12-5501	↓	13:15	↓	↓	X			6
03	FB-240424	↓	12:00	blank	↓	X			6
04	TB-240424	4/24/24		blank		X			2

Rel: 362 4/25/24 0325
4/25/24 0325

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Michael Daniel	4/24/24 15:45		4/24/24 16:18
	4/24/24 1800		4/24/24 2000
Anthony Green	4/25/24 0125	Anthony Green APR 24 2024	4/25/24 0125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Table III-5: Short List of Petroleum Products

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Leaded Gasoline, Aviation Gasoline, and Jet Fuel 1	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2- Dibromoethane, 1,2- Dibromide)	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (Isopropylbenzene) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5- Dichloroethane, 1,2-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
			Dibromoethane, 1,2-(Ethylene	EPA Method 8011 or 504.1
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Unleaded Gasoline 2	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Xylenes (total) Cumene (Isopropylbenzene) (isopropylbenzene) Methyl tert-Butyl Ether (MTBE) Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Kerosene, Fuel Oil No. 1 3	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2
Diesel Fuel, Fuel Oil No. 2 4	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) (Isopropylbenzene) Methyl tert-Butyl Ether Naphthalene Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,3,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8260B or 524.2

Table III-5: Short List of Petroleum Products (cont.)

PRODUCT STORED	PARAMETERS TO BE TESTED IN SOIL	ANALYTICAL METHOD (reported on a dry weight basis)	PARAMETERS TO BE TESTED IN WATER	ANALYTICAL METHOD[1]
Fuel Oil Nos. 4, 5 and 6, and Lubricating Oils and Fluids 5	Benzene Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Fluorene Anthracene Phenanthrene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Phenanthrene Pyrene Chrysene	EPA Method 8270C, 8310 or 525.2
Used Motor Oil 6	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5035/8021B or 5035/8260B	Benzene Toluene Ethyl Benzene Cumene (Isopropylbenzene) Naphthalene	EPA Method 5030B/8021B, 5030B/8260B or 524.2
	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 8270C or 8310	Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	EPA Method 525.2
	Lead (total)	EPA Method 6010B or 7420	Lead (dissolved)	EPA Method 6020, 7421, 200.7, 200.8, or 200.9
Mineral Insulating Oil	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082	PCB-1016 (Aroclor) PCB-1221 (Aroclor) PCB-1232 (Aroclor) PCB-1242 (Aroclor) PCB-1248 (Aroclor) PCB-1254 (Aroclor) PCB-1260 (Aroclor)	EPA Method 8082 or 508A
	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,2,4-) Trimethyl benzene, 1,3,5-	EPA Method 5035/8021B or 5035/8260B	Trimethyl benzene, 1,2,4- (Trimethyl benzene, 1,2,4-) Trimethyl benzene, 1,3,5-	EPA Method 5030B/8021B, 5030B/8260B or 524.2
Other Petroleum Product Blended Petroleum Products Unknown Petroleum Products Other Regulated Substances	Contact the DEP Regional Office responsible for the county in which the tank is located.			

[1] Samples from potable water supplies must be analyzed using a method applicable to drinking water.

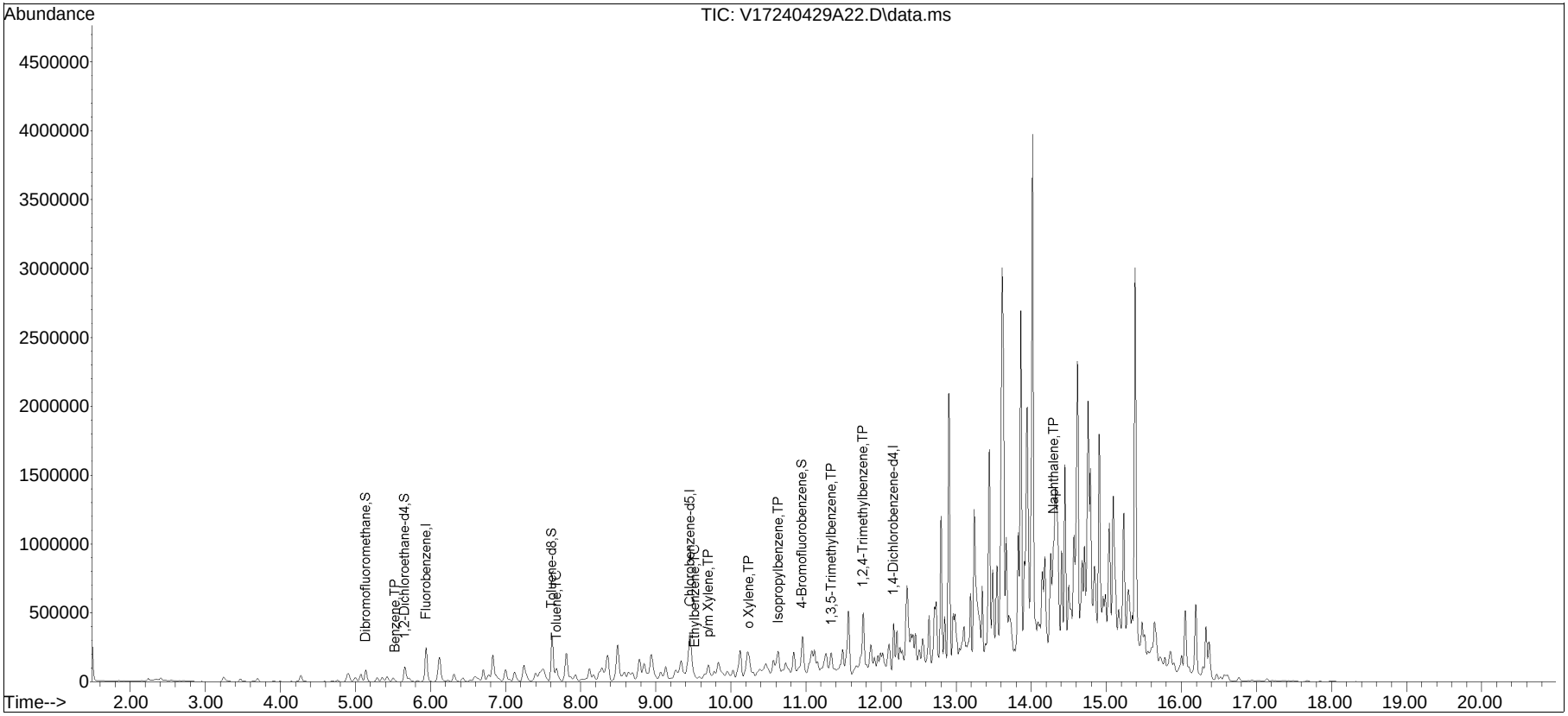
Notes:
When reporting nondetects (ND), the data must be accompanied by a numerical quantitation limit that takes into account dilution, sample preparation, and matrix effects.
The responsible party has the obligation to ensure that the analytical methodologies and techniques employed are suitable to provide data that meets the minimal data quality objectives outlined and referenced in this document.
Laboratories must document that samples meet all applicable preservation requirements.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A22.D
Acq On : 29 Apr 2024 06:05 pm
Operator : VOA117:JIC
Sample : l2422575-01,31h,4.20,5,0.100,,a
Misc : WG1915057,ICAL20984
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 30 08:39:06 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

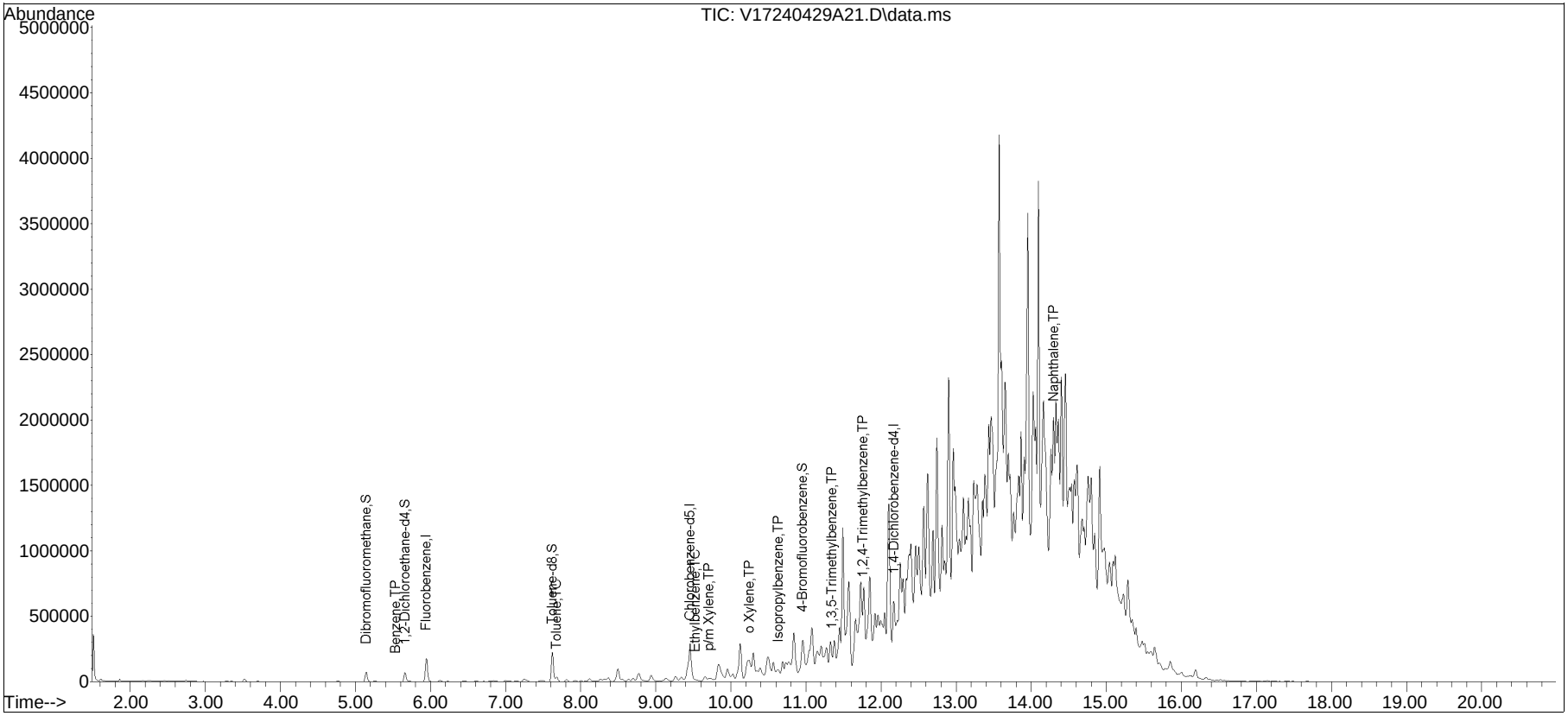


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240429A\
Data File : V17240429A21.D
Acq On : 29 Apr 2024 05:39 pm
Operator : VOA117:JIC
Sample : l2422575-03,31,6.12,5,,b
Misc : WG1915050,ICAL20984
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 07:54:46 2024
Quant Method : K:\VOA117\2024\240429A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list429A01.D•

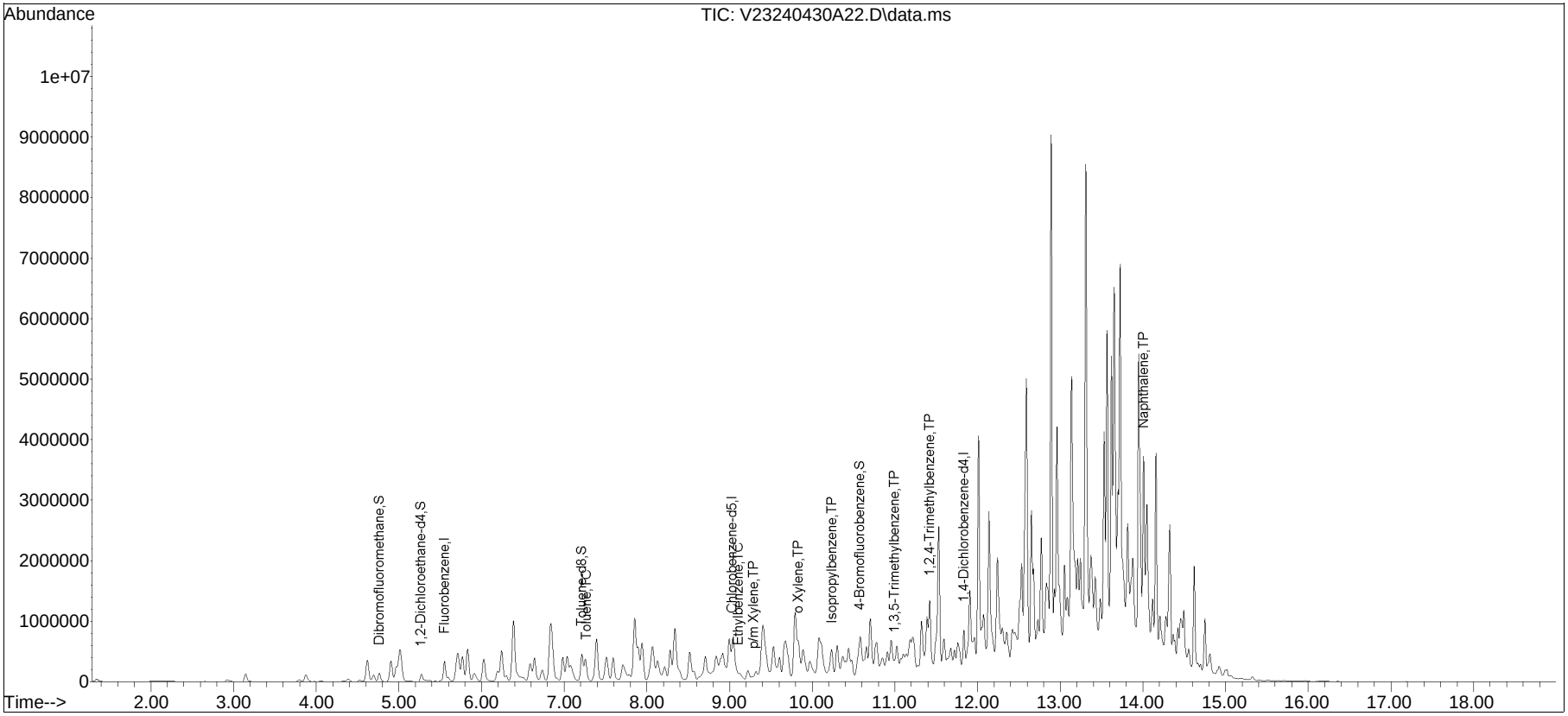


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240430A\
Data File : V23240430A22.D
Acq On : 30 Apr 2024 05:04 pm
Operator : VOA123:RAW
Sample : L2422575-10,31H,5.23,5,0.100,,A
Misc : WG1915548,ICAL20839
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 30 22:37:00 2024
Quant Method : K:\VOA123\2024\240430A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list430A01.D•

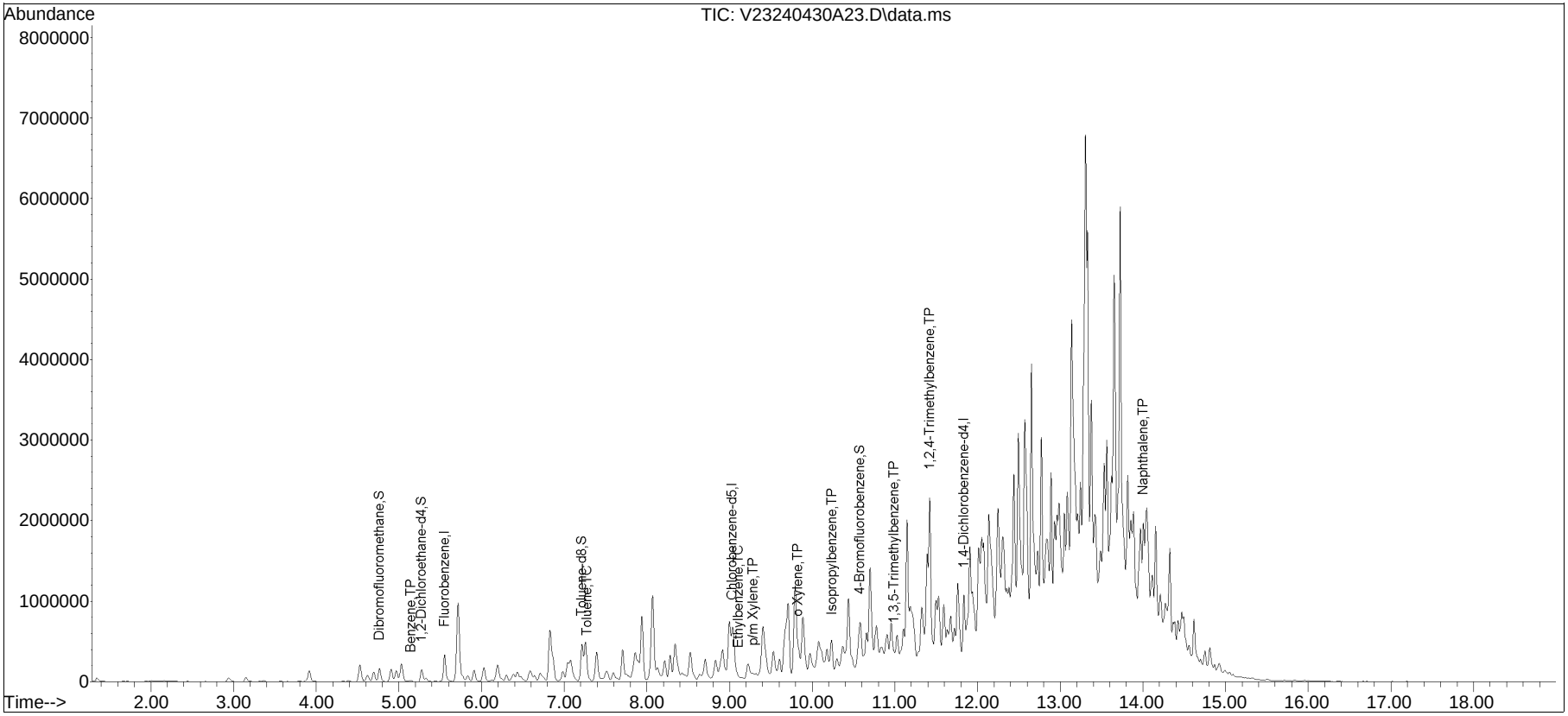


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240430A\
Data File : V23240430A23.D
Acq On : 30 Apr 2024 05:30 pm
Operator : VOA123:RAW
Sample : L2422575-12,31H,5.15,5,0.100,,A
Misc : WG1915548,ICAL20839
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 30 22:37:55 2024
Quant Method : K:\VOA123\2024\240430A\V123_240207N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 08 11:15:00 2024
Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list430A01.D•



ANALYTICAL REPORT

Lab Number:	L2430771
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PESRM
Project Number:	200.00135
Report Date:	06/11/24

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), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2430771-01	GPR217-01-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:00	06/04/24
L2430771-02	GPR217-02-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:25	06/04/24
L2430771-03	GPR217-03-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:45	06/04/24
L2430771-04	GPR217-04-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:15	06/04/24
L2430771-05	GPR217-05-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 12:45	06/04/24
L2430771-06	GPR217-06-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:15	06/04/24
L2430771-07	GPR217-07-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:10	06/04/24
L2430771-08	GPR217-08-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 11:00	06/04/24
L2430771-09	GPR217-09-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:40	06/04/24
L2430771-10	GPR217-10-SS01-2	SOIL	PHILADELPHIA, PA	06/03/24 10:25	06/04/24
L2430771-11	GPR1208-06-SS01	SOIL	PHILADELPHIA, PA	06/03/24 13:30	06/04/24
L2430771-12	GPR1208-02-SS01-P	SOIL	PHILADELPHIA, PA	06/03/24 13:45	06/04/24
L2430771-13	GPR1208-02-SS01-G	SOIL	PHILADELPHIA, PA	06/03/24 13:55	06/04/24
L2430771-14	GPR1208-01-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:15	06/04/24
L2430771-15	GPR1205-09-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:30	06/04/24
L2430771-16	GPR1208-07-SS01	SOIL	PHILADELPHIA, PA	06/03/24 14:40	06/04/24
L2430771-17	TB-060324	WATER	PHILADELPHIA, PA	05/31/24 00:00	06/04/24
L2430771-18	FB-060324	WATER	PHILADELPHIA, PA	06/03/24 14:00	06/04/24

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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.

Project Name: PESRM **Lab Number:** L2430771
Project Number: 200.00135 **Report Date:** 06/11/24

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2430771-17: The Client ID was specified by the client.

Volatile Organics

L2430771-02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

The surrogate recoveries are outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with obvious interferences. Copies of the chromatograms are included as an attachment to this report:

L2430771-02: 163%

L2430771-03: 179%

L2430771-05: 189%

L2430771-06: 932%

L2430771-07: 144%

L2430771-08: 173%

L2430771-14: 260%

L2430771-04: The surrogate recoveries outside the acceptance criteria for 1,2-dichloroethane-d4 (251%) and 4-bromofluorobenzene (379%); 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.

L2430771-04: The surrogate recovery is outside the method acceptance criteria for dibromofluoromethane (54%) due to interference with the Internal Standard.

L2430771-16: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (145%) and 4-bromofluorobenzene (217%); however, the sample was not re-analyzed due to coelution with an obvious

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Case Narrative (continued)

interference. A copy of the chromatogram is included as an attachment to this report.

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.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/24

ORGANICS

VOLATILES

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-01
Client ID: GPR217-01-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:00
Analyst: LAC
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00029	J	mg/kg	0.00083	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	101		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-02
Client ID: GPR217-02-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:25
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 17:20
Analyst: LAC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	0.046	J	mg/kg	0.072	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	**163**	Q	70-130
Dibromofluoromethane	89		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-03
Client ID: GPR217-03-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 12:52
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00068	J	mg/kg	0.00078	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	**179**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-04
Client ID: GPR217-04-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 12:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 13:19
Analyst: JIC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0037		mg/kg	0.00085	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**251**	Q	70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**379**	Q	70-130
Dibromofluoromethane	**54**	Q	70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-05
Client ID: GPR217-05-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 13:45
Analyst: JIC
Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00032	J	mg/kg	0.00090	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	**189**	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-06
Client ID: GPR217-06-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/10/24 14:11
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00036	J	mg/kg	0.00056	0.00019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	**932**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-07
Client ID: GPR217-07-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:10
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:26
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00059	0.00020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	**144**	Q	70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-08
Client ID: GPR217-08-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 11:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:53
Analyst: LAC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00046	J	mg/kg	0.00084	0.00028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**173**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-09
Client ID: GPR217-09-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:40
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 19:26
Analyst: JIC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00096	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	94		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-10
Client ID: GPR217-10-SS01-2
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 10:25
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 19:52
Analyst: JIC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00064	0.00021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	96		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-11
Client ID: GPR1208-06-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:30
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 20:18
Analyst: JIC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.035		mg/kg	0.00071	0.00024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	79		70-130
Dibromofluoromethane	95		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-12
Client ID: GPR1208-02-SS01-P
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:45
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 20:44
Analyst: JIC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.012		mg/kg	0.00070	0.00023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-13
Client ID: GPR1208-02-SS01-G
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 13:55
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 21:10
Analyst: JIC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.047		mg/kg	0.00090	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-14
Client ID: GPR1208-01-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:15
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/06/24 23:46
Analyst: JIC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.032		mg/kg	0.00066	0.00022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	73		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	**260**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-15
Client ID: GPR1205-09-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:30
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/07/24 00:11
Analyst: JIC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.084		mg/kg	0.00058	0.00019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	75		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-16
Client ID: GPR1208-07-SS01
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:40
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/07/24 00:37
Analyst: JIC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.16		mg/kg	0.00080	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	71		70-130
Toluene-d8	**145**	Q	70-130
4-Bromofluorobenzene	**217**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-17
Client ID: TB-060324
Sample Location: PHILADELPHIA, PA
Date Collected: 05/31/24 00:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:20
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-18
Client ID: FB-060324
Sample Location: PHILADELPHIA, PA
Date Collected: 06/03/24 14:00
Date Received: 06/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/06/24 16:45
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 08:42
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17-18 Batch: WG1931053-5					
Benzene	ND		ug/l	0.50	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 10:13
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,07-08 Batch: WG1931171-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 10:13
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1931172-5					
Benzene	ND		mg/kg	0.025	0.0083

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	106		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/06/24 15:58
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09-16 Batch: WG1931215-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Project Name: PESRM
Project Number: 200.00135
Lab Number: L2430771
Report Date: 06/11/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/10/24 08:52
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-06 Batch: WG1932636-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-18 Batch: WG1931053-3 WG1931053-4								
Benzene	98		99		70-130	1		20

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,07-08 Batch: WG1931171-3 WG1931171-4								
Benzene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		83		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1931172-3 WG1931172-4								
Benzene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		83		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09-16 Batch: WG1931215-3 WG1931215-4								
Benzene	80		77		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	78		79		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-06 Batch: WG1932636-3 WG1932636-4								
Benzene	87		87		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	81		82		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	87		88		70-130
Dibromofluoromethane	97		97		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-01
Client ID: GPR217-01-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:00
Date Received: 06/04/24
Field Prep: Not Specified

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	68.8		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-02
Client ID: GPR217-02-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:25
Date Received: 06/04/24
Field Prep: Not Specified

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	65.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-03
Client ID: GPR217-03-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:45
Date Received: 06/04/24
Field Prep: Not Specified

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	74.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-04
Client ID: GPR217-04-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:15
Date Received: 06/04/24
Field Prep: Not Specified

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	65.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-05
Client ID: GPR217-05-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 12:45
Date Received: 06/04/24
Field Prep: Not Specified

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	62.8		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-06
Client ID: GPR217-06-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:15
Date Received: 06/04/24
Field Prep: Not Specified

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	84.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-07
Client ID: GPR217-07-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:10
Date Received: 06/04/24
Field Prep: Not Specified

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	83.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-08
Client ID: GPR217-08-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 11:00
Date Received: 06/04/24
Field Prep: Not Specified

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	82.1		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-09
Client ID: GPR217-09-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:40
Date Received: 06/04/24
Field Prep: Not Specified

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	81.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-10
Client ID: GPR217-10-SS01-2
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 10:25
Date Received: 06/04/24
Field Prep: Not Specified

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	81.9		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-11
Client ID: GPR1208-06-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:30
Date Received: 06/04/24
Field Prep: Not Specified

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	76.6		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-12
Client ID: GPR1208-02-SS01-P
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:45
Date Received: 06/04/24
Field Prep: Not Specified

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	78.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-13
Client ID: GPR1208-02-SS01-G
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 13:55
Date Received: 06/04/24
Field Prep: Not Specified

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	65.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-14
Client ID: GPR1208-01-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:15
Date Received: 06/04/24
Field Prep: Not Specified

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	75.9		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-15
Client ID: GPR1205-09-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:30
Date Received: 06/04/24
Field Prep: Not Specified

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	88.0		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

SAMPLE RESULTS

Lab ID: L2430771-16
Client ID: GPR1208-07-SS01
Sample Location: PHILADELPHIA, PA

Date Collected: 06/03/24 14:40
Date Received: 06/04/24
Field Prep: Not Specified

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	72.2		%	0.100	NA	1	-	06/05/24 09:08	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PESRM

Project Number: 200.00135

Lab Number: L2430771

Report Date: 06/11/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1929847-1 QC Sample: L2431008-02 Client ID: DUP Sample						
Solids, Total	80.6	80.8	%	0		20

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-01A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-02A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-02X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-02Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-02Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-03A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-03X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-03Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-03Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-04A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-04C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-04X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-04Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-04Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-05A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-05X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-05Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-05Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-06A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-06X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-06Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-06Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-07A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-07X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-07Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-07Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-08A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-08C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-08X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-08Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-08Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-09A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-09X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-09Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-09Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-10A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-10X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-10Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-10Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-11A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-11X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-11Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-11Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-12A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-12C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-12X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-12Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-12Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-13A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-13X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-13Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-13Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-14A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-14X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-14Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-14Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-15A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-15X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-15Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-15Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-16A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: PESRM
Project Number: 200.00135

Lab Number: L2430771
Report Date: 06/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430771-16C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2430771-16X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		PA-8260HLW-BTEX(14)
L2430771-16Y	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-16Z	Vial Water preserved split	A	NA		2.5	Y	Absent	05-JUN-24 07:20	PA-8260HLW-BTEX(14)
L2430771-17A	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-SIM(14),PA-8260-BTEX(14),PA-8260(14)
L2430771-17B	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-SIM(14),PA-8260-BTEX(14),PA-8260(14)
L2430771-18A	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)
L2430771-18B	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)
L2430771-18C	Vial HCl preserved	A	NA		2.5	Y	Absent		PA-8260-BTEX(14),PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

GLOSSARY

Acronyms

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.)

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).

EMPC - 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.)

LOQ - 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.

MS - 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:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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, Benz(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.

B - 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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.

J - 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:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

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.

V - 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.)

Project Name:	PESRM	**Lab Number:**	L2430771
Project Number:	200.00135	**Report Date:**	06/11/24

REFERENCES

1 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.

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; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.
Nonpotable Water: EPA RSK-175 Dissolved Gases
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, SM4500Cl-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 Kjeldahl-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 I, 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, 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.

Serial_No:06112413:33

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/4/24

ALPHA Job #: L2430771

Client Information

Client: Ransom Consulting, LLC

Address: 2127 Hamilton Avenue Hamilton, NJ 08619

Phone: 609.584.0090

Fax: 609.584.1190

Email: william.schmidt@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PESRM

Project Location: Philadelphia, PA

Project #: 200.00135

Project Manager: Bill Schmidt

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PADEP	

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Benzene

SAMPLE HANDLING
Filtration ______
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	Sample Specific Comments	TOTAL # BOTTLES
30771-01	GPR 217-01-SS01-2	6.3.24	12:00	S	TR	✓		
-02	GPR 217-02-SS01-2	↓	12:25	↓	↓	✓		
-03	GPR 217-03-SS01-2		11:45			✓		
-04	GPR 217-04-SS01-2		12:15			✓		
-05	GPR 217-05-SS01-2		12:45			✓		
-06	GPR 217-06-SS01-2		11:15			✓		
-07	GPR 217-07-SS01-2		10:10			✓		
-08	GPR 217-08-SS01-2		11:00			✓		
-09	GPR 217-09-SS01-2		10:40			✓		
-10	GPR 217-10-SS01-2		10:25			✓		

	Benzene
Container Type	G
Preservative	E

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/4/24 1410	[signature] PACE	6/4/24 1410
Paul Mazzella	6/4/24	Paul Mazzella	6/4/24 1645
Chain PACE	6/4/24 2340	[signature] PACE	6/4/24 2340
		Cett	6/4/24 23:48

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/4/24

ALPHA Job #: L2430771

Client Information

Client: Ransom Consulting, LLC
Address: 2127 Hamilton Avenue
Hamilton, NJ 08619
Phone: 609.584.0090
Fax: 609.584.1190
Email: william.schmidt@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PESRM
Project Location: Philadelphia, PA
Project #: 200.00135
Project Manager: Bill Schmidt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PADEP	

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Benzene	SAMPLE HANDLING: Filtration (☐ Done ☐ Not needed ☐ Lab to do) Preservation (☐ Lab to do) (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
30771-11	GPR1208-06-SS01	6.3.24	13:30	S	TR	✓			
-12	GPR1208-02-SS01-P		13:45			✓			
-13	GPR1208-02-SS01-G		13:55			✓			
-14	GPR1208-01-SS01		14:15			✓			
-15	GPR1205-09-SS01		14:30			✓			
-16	GPR1208-07-SS01		14:40			✓			
-17	Trip blank	5.31.24	—	TB	—	✓			
-18	FB-060324	6.3.24	14:00	FB	TR	✓			

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Magella	6/4/24	PACE	6/4/24 1035
Chain PACE	6/4/24 2340	Paul Magella	6/4/24 1642
		Chain PACE	6/4/24 2340
		JCC	6/4/24 23:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

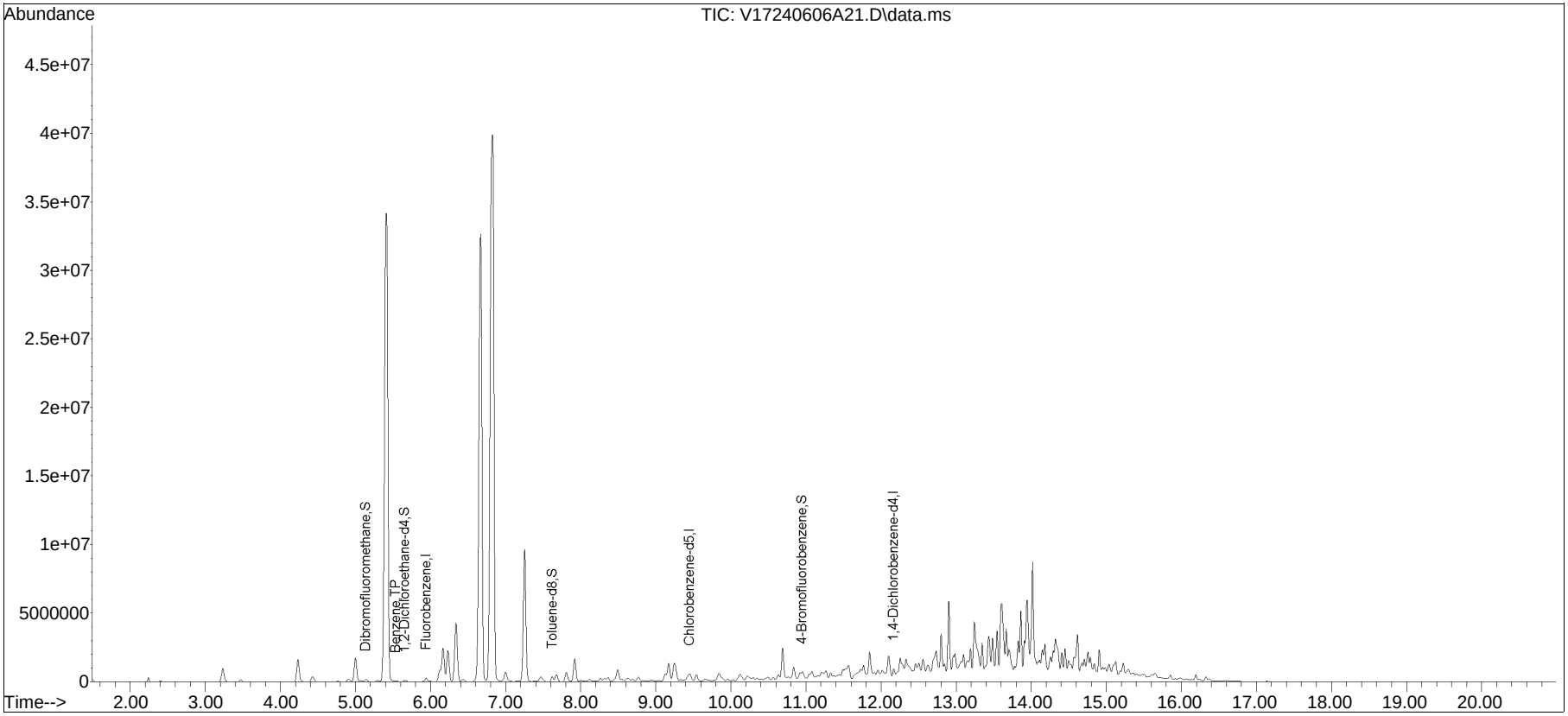
FORM NO: 01-01 (rev. 14-OCT-07)

Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A21.D
Acq On : 06 Jun 2024 05:20 pm
Operator : VOA117:LAC
Sample : L2430771-02,31H,3.26,5,0.100,,X
Misc : WG1931172,ICAL20984
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 17:46:45 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

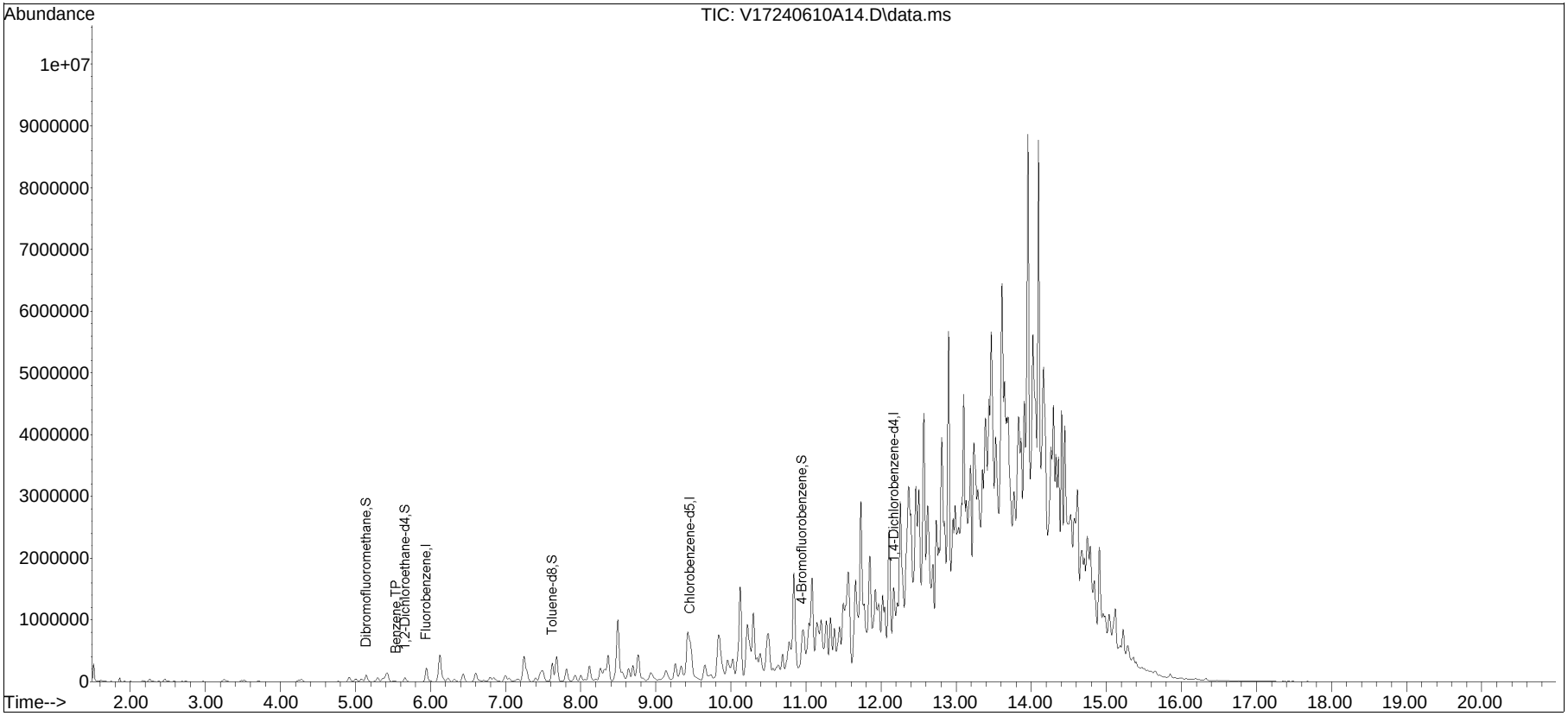


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A14.D
Acq On : 10 Jun 2024 12:52 pm
Operator : VOA117:JIC
Sample : L2430771-03,31,4.30,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 07:55:48 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

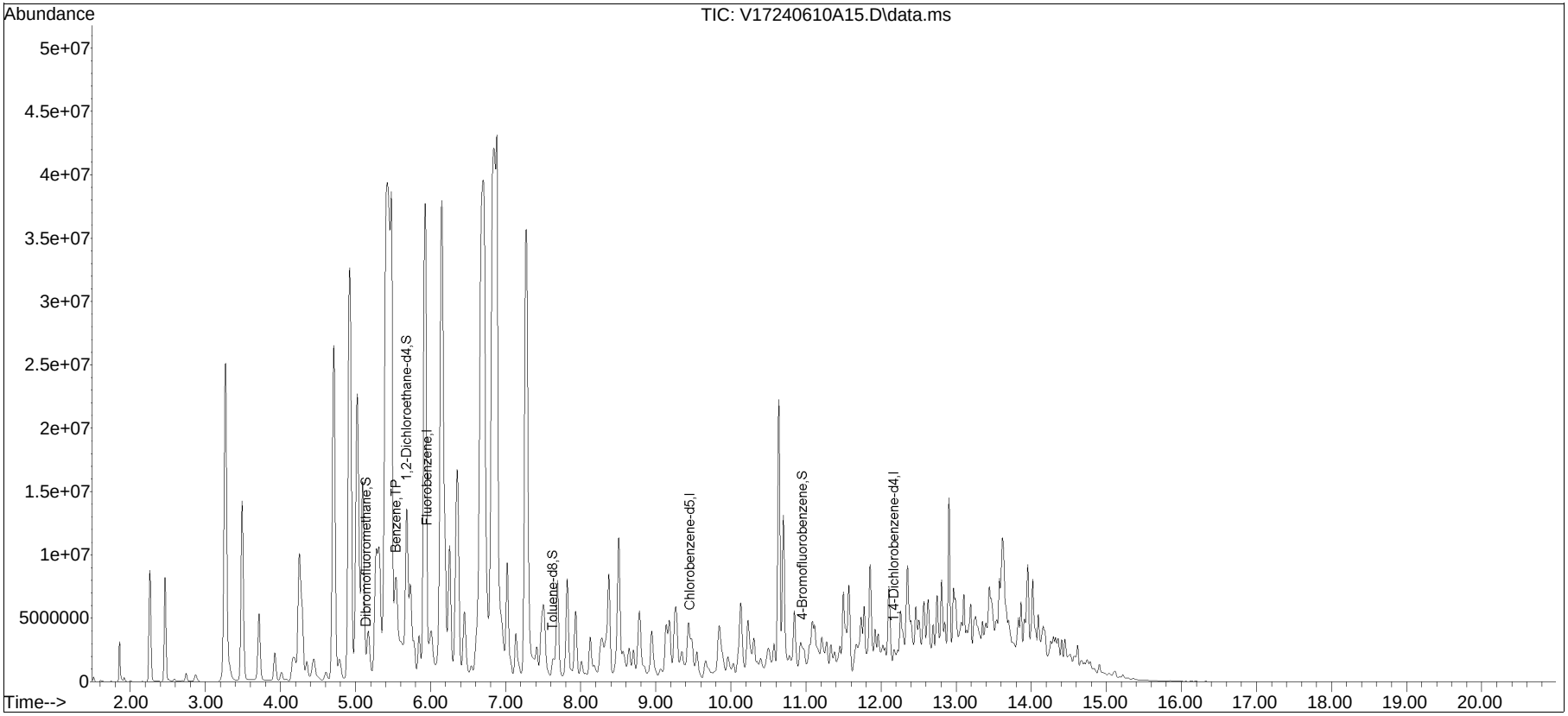


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A15.D
Acq On : 10 Jun 2024 01:19 pm
Operator : VOA117:JIC
Sample : L2430771-04,31,4.53,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 11 07:55:52 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

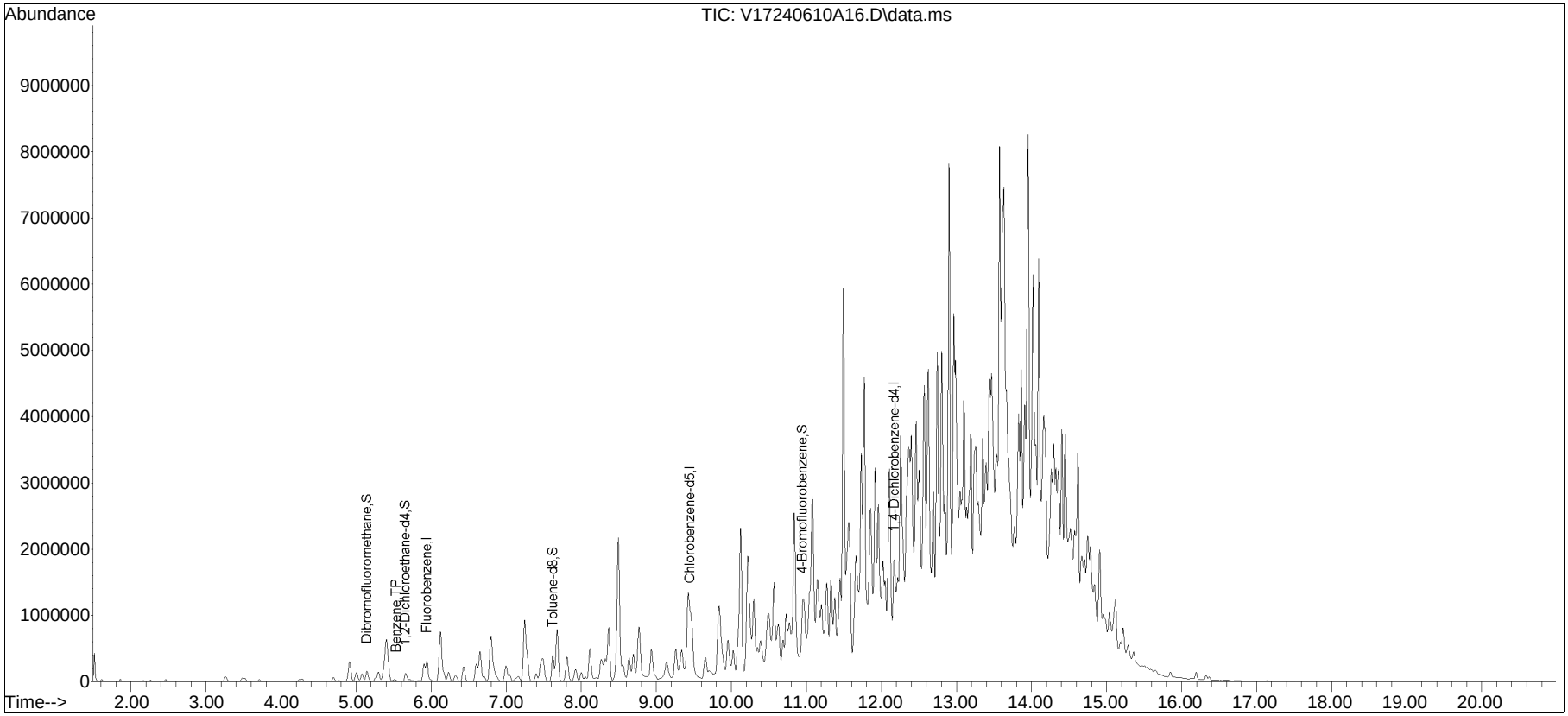


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A16.D
Acq On : 10 Jun 2024 01:45 pm
Operator : VOA117:JIC
Sample : L2430771-05,31,4.44,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 11 07:55:56 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

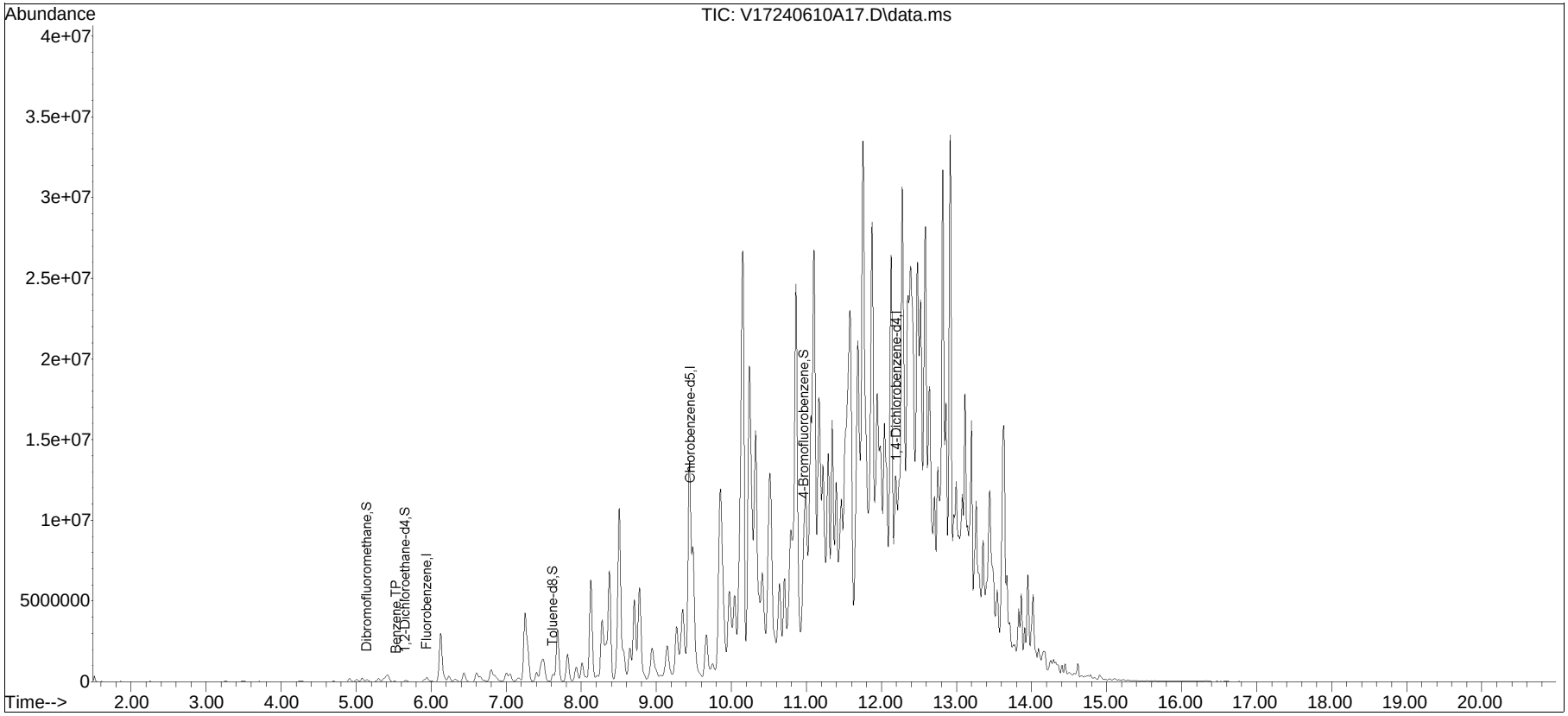


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240610A\
Data File : V17240610A17.D
Acq On : 10 Jun 2024 02:11 pm
Operator : VOA117:JIC
Sample : L2430771-06,31,5.28,5,,Y
Misc : WG1932636,ICAL20984
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 11 08:04:22 2024
Quant Method : K:\VOA117\2024\240610A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240610A01.D•

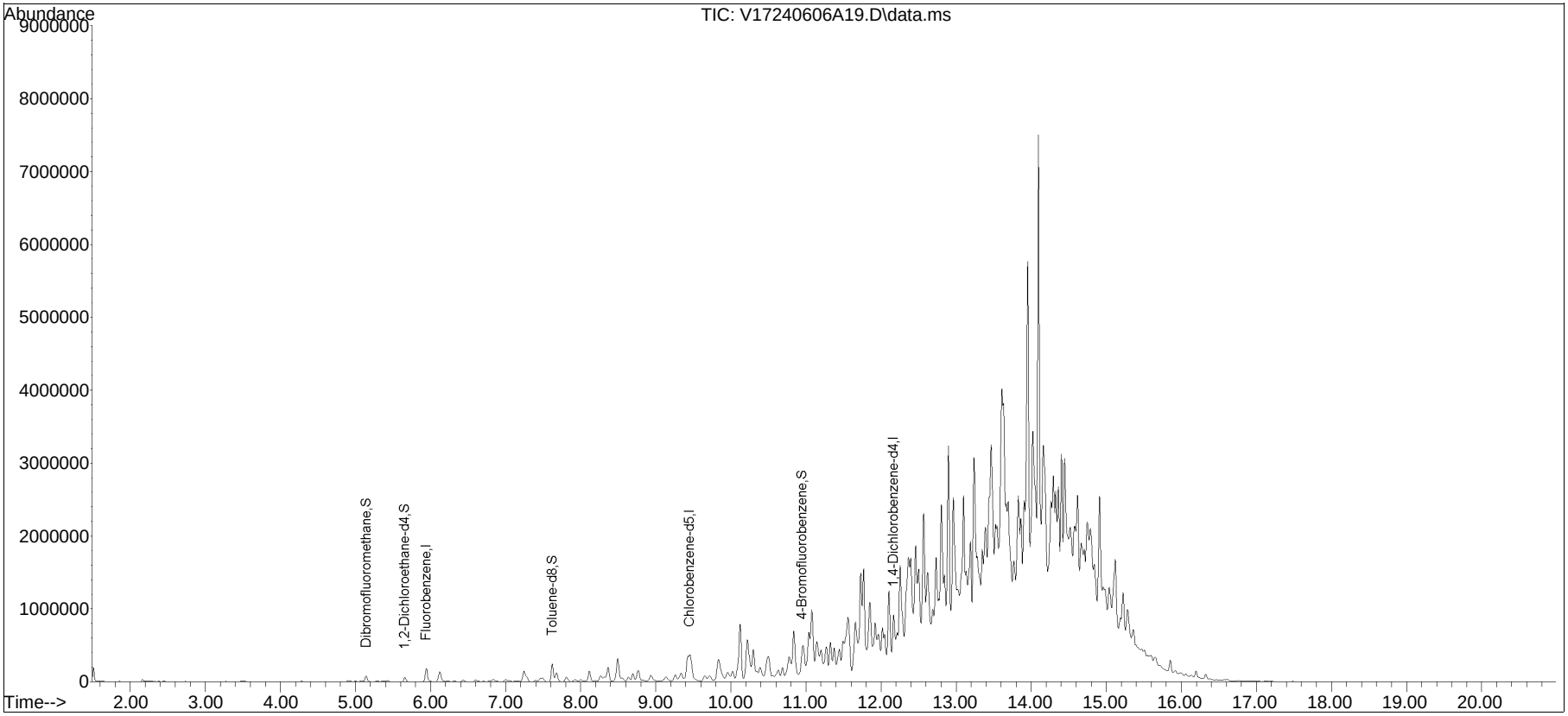


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A19.D
Acq On : 06 Jun 2024 04:26 pm
Operator : VOA117:LAC
Sample : L2430771-07,31,5.10,5,,Y
Misc : WG1931171,ICAL20984
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 06 16:48:54 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

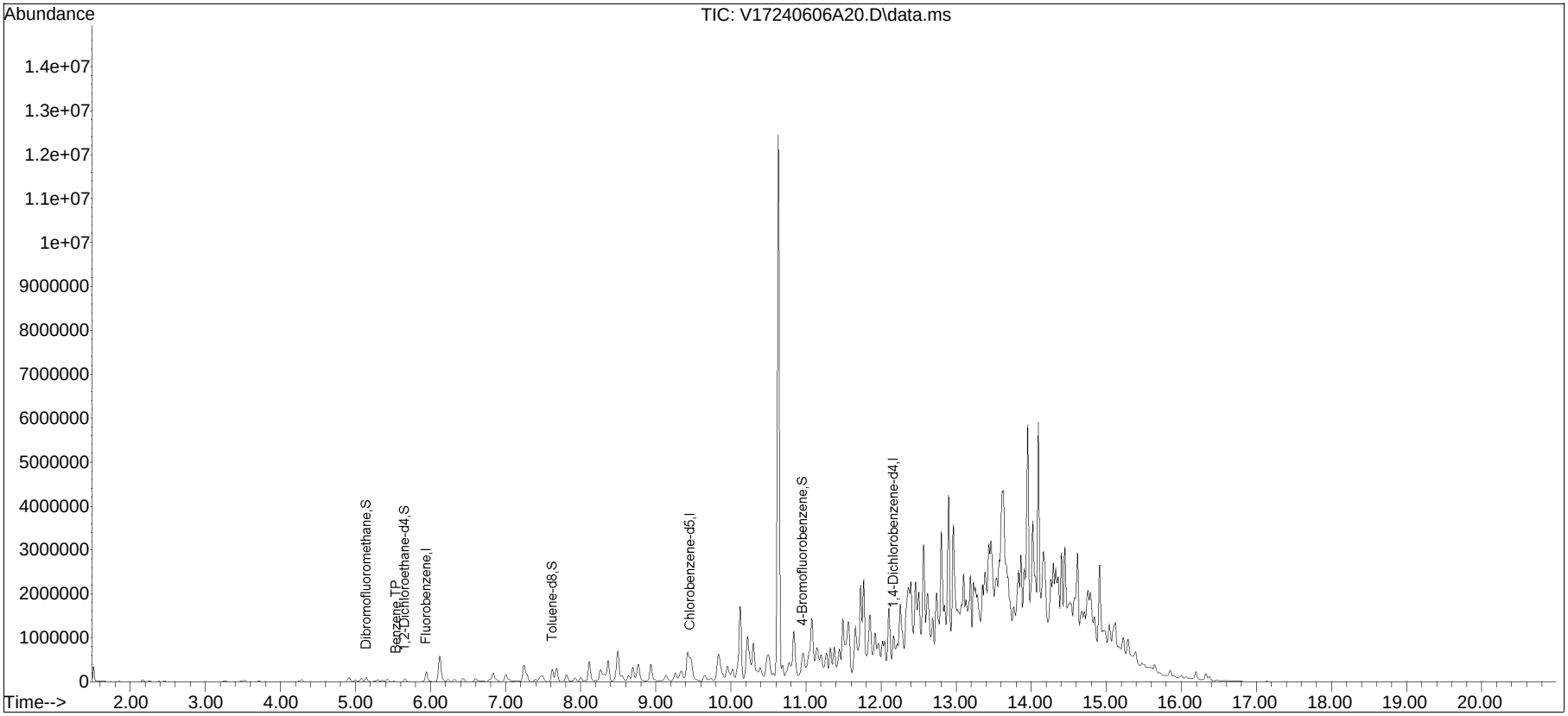


Quantitation Report (QT Reviewed)

Data Path : K:\VOA117\2024\240606A\
Data File : V17240606A20.D
Acq On : 06 Jun 2024 04:53 pm
Operator : VOA117:LAC
Sample : L2430771-08,31,3.63,5,,Y
Misc : WG1931171,ICAL20984
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 17:46:14 2024
Quant Method : K:\VOA117\2024\240606A\V117_240326N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 27 10:55:42 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV17240606A01.D•

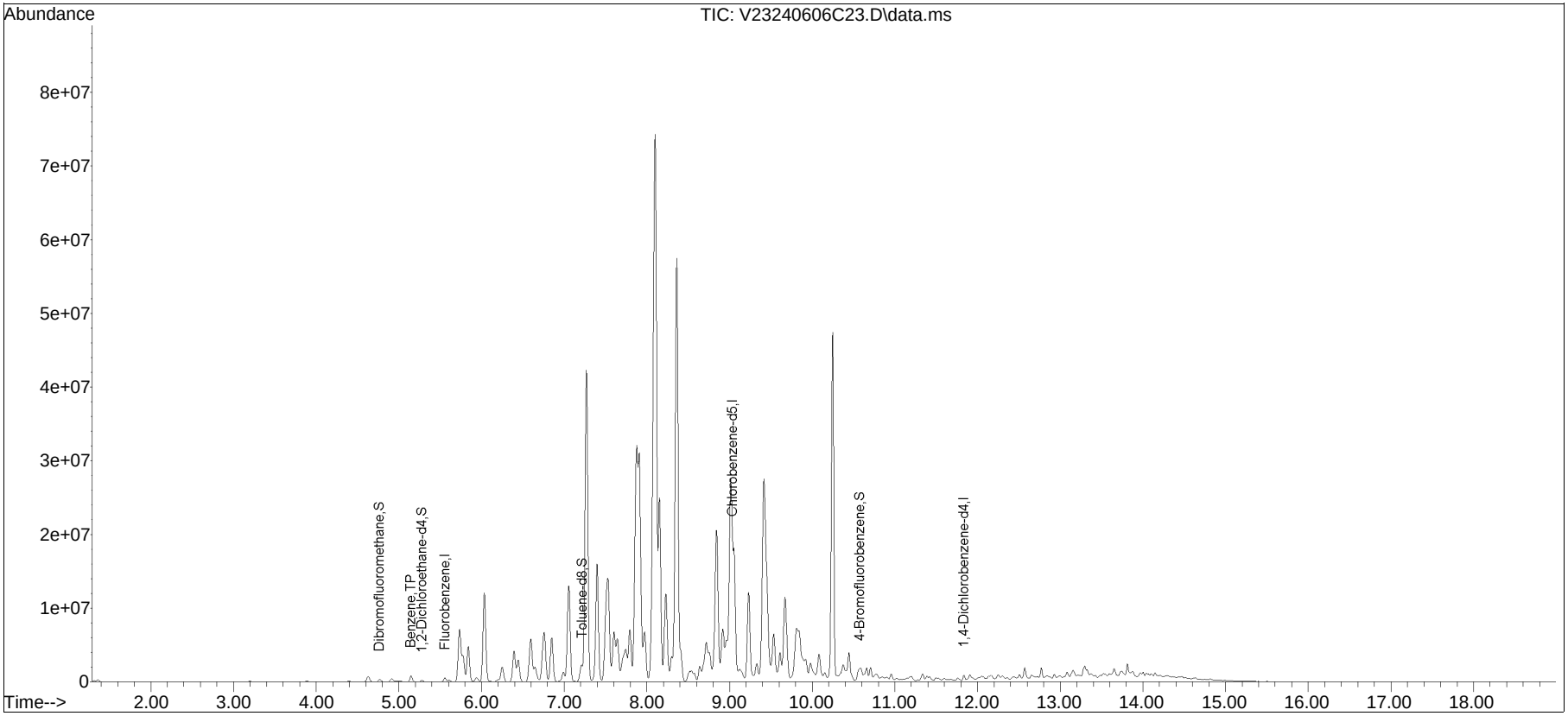


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240606C\
Data File : V23240606C23.D
Acq On : 06 Jun 2024 11:46 pm
Operator : VOA123:JIC
Sample : L2430771-14,31,4.97,5,,Z
Misc : WG1931215,ICAL21135
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 08:21:48 2024
Quant Method : K:\VOA123\2024\240606C\V123_240515N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 16 08:54:55 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV23240606C01.D•

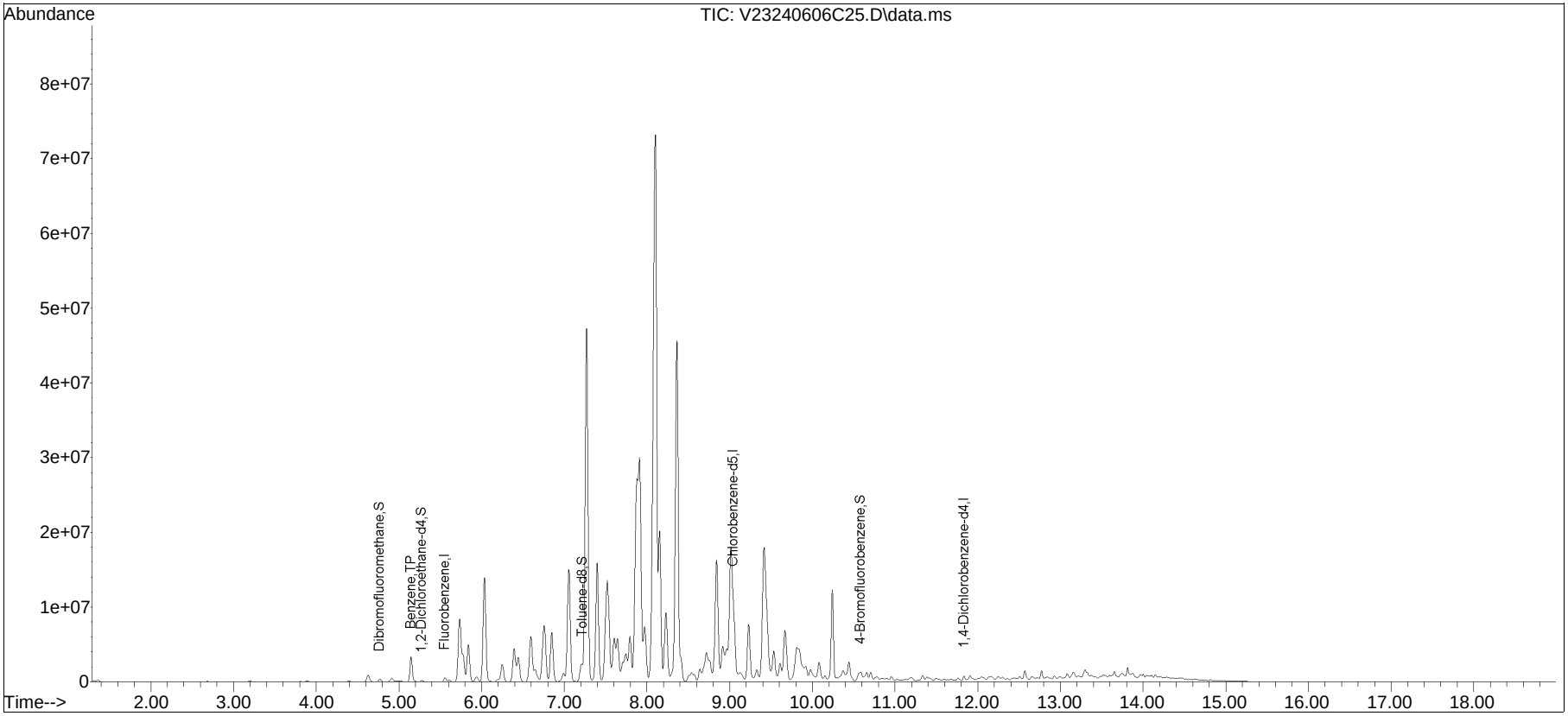


Quantitation Report (QT Reviewed)

Data Path : K:\VOA123\2024\240606C\
Data File : V23240606C25.D
Acq On : 07 Jun 2024 12:37 am
Operator : VOA123:JIC
Sample : L2430771-16,31,4.35,5,,Z
Misc : WG1931215,ICAL21135
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 07 08:21:59 2024
Quant Method : K:\VOA123\2024\240606C\V123_240515N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 16 08:54:55 2024
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene onlyV23240606C01.D•



Appendix H

Quality Assurance/Quality Control Soil Sampling Results

Table H1
Summary of Soil QAQC Analytical Results
Tank Group 08
Bellwether District Holdings, LLC , Philadelphia, PA

Location	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	TB-240422	TB-240423	TB-240424	TB-060324	FB-240422	FB-240423	FB-240424	FB-060324
Sample Date	4/19/2024	4/19/2024	4/19/2024	5/31/2024	4/22/2024	4/23/2024	4/24/2024	6/3/2024
Comments	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Field Blank	Field Blank	Field Blank	Field Blank
Volatile Organic Compounds	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	NA	NA	NA	NA	ND (0.05)	ND (0.05)	0.01 J (0.05)	NA
Metals	NA	NA	NA	NA	ND	ND	ND	NA

Notes:
1 All concentrations reported in ug/L (ppb); detection limits in parentheses.
2 Only compounds with at least one detection are shown.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table H2
Quality Control Checklist
Bellwether District Holdings, LLC, Philadelphia, PA

	Keyfile-Related			EDD-Related											
								Multiple Results						Check for	
Date Sampled	Check Lab Login	Check Keyfile	Check COC/Field Notes	Check Sample IDs	Check Analyte List Reported	Review EDD for Issues	Check Dates, Matrix and	Reported	Surrogate Recovery	Data Qualifiers	Reasonable Limits	Other	Resolved	Concerning Qualifiers	Comments
4/22/2024	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	L2421961-11 (GPR219-08-SS01): VOCs reported for two runs. The IS responses for chlorobenzene-d5 (49%) and 1,4-dichlorobenzene-d4 (48%) and the surrogate recoveries for 1,2-dichloroethane-d4 (59%), dibromofluoromethane (62%), toluene-d8 (179%), and 4-bromofluorobenzene (2342%) were outside the acceptance criteria due to obvious interferences. The run with surrogate recoveries within acceptance criteria is selected as reportable. The high run is reported and the low run is not reportable.
4/23/2024	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No						Yes	
4/24/2024	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	L2422575-05 (GPR227-05-SS01): VOCs reported for two runs. The internal standard (IS) responses for fluorobenzene (48%), chlorobenzene-d5 (38%), and 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (275%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (37%), toluene-d8 (148%), and 4-bromofluorobenzene (1190%). The results of both analyses are reported; however, since the IS responses were below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias. If both runs have detections and surrogate recoveries outside of acceptance criteria, the run with more surrogates recoveries outside acceptance criteria is not reported and the run with fewer surrogate recoveries outside of acceptance criteria is selected as reportable. The original analysis is reported and the re-analysis is not reportable. L2422575-07 (GPR227-07-SS01): The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (245%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (35%) and 4-bromofluorobenzene (428%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias. If both runs have the same number of surrogates with recovery outside the acceptance criteria, if both results are detected, the higher of detections is selected as reportable; if one result is detected and one is non-detect, the detection is selected as reportable; if both results are non-detect, the lower reporting limit is selected as reportable. The original analysis is reported and the re-analysis is not reportable. L2422575-09 (GPR227-09-SS01): The internal standard (IS) response for and 1,4-dichlorobenzene-d4 (27%) and the surrogate recovery for toluene-d8 (134%) and 4-bromofluorobenzene (254%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (41%) and 4-bromofluorobenzene (179%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias. If both runs have detections and surrogate recoveries outside of acceptance criteria, the run with more surrogates recoveries outside acceptance criteria is not reported and the run with fewer surrogate recoveries outside of acceptance criteria is selected as reportable. L2422575-11 (GPR227-11-SS01): The internal standard (IS) responses for chlorobenzene-d5 (48%) and 1,4-dichlorobenzene-d4 (20%) and the surrogate recoveries for toluene-d8 (139%) and 4-bromofluorobenzene (213%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (43%), 1,4-dichlorobenzene-d4 (16%), toluene-d8 (151%), and 4-bromofluorobenzene (449%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias. If both runs have the same number of surrogates with recovery outside the acceptance criteria, if both results are detected, the higher of detections is selected as reportable; if one result is detected and one is non-detect, the detection is selected as reportable; if both results are non-
6/3/2024	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No						Yes	

Table H3

Quality Control Methodology

Bellwether District Holdings, LLC, Philadelphia, PA

Multiple VOC Runs Data Quality	Solution
If the surrogate recoveries for one run are **within acceptance criteria** and the other run has **3-4 surrogates outside of acceptance criteria**:	The run with surrogate recoveries within acceptance criteria is selected as reportable.
If the surrogate recoveries for one run are **within acceptance criteria** and has some **detections** and the other run has **1-2 surrogates outside of acceptance criteria**:	The run with surrogate recoveries within acceptance criteria is selected as reportable.
If one run has surrogate recoveries **within acceptance critera** but is **non-detect** and the other run has **1-2 surrogates outside of acceptance criteria** but has **detections**:	The run with detections is selected as reportable and the run with non-detects is not reported.
If both runs have **detections** and **surrogate recoveries outside of acceptance criteria**:	The run with more surrogates recoveries outside acceptance criteria is not reported and the run with fewer surrogate recoveries outside of acceptance criteria is selected as reportable.
If one run has surrogate recoveries **outside of acceptance critera** but is **non-detect** and the other run has **1-2 more surrogates outside of acceptance** criteria but has **detections**:	The run with detections is selected as reportable and the run with non-detects is not reported.
If both runs have the **same number of surrogates** with recovery outside the acceptance criteria:	If both results are detected, the higher of detections is selected as reportable; if one result is detected and one is non-detect, the detection is selected as reportable; if both results are non-detect, the lower reporting limit is selected as reportable.
If two VOC runs are reported and there are no QC issues for both runs:	If both results are detected, the higher of detections is selected as reportable; if one result is detected and one is non-detect, the detection is selected as reportable; if both results are non-detect, the lower reporting limit is selected as reportable.

Appendix I

Safety Data Sheet

Safety Data Sheet

Material Name: Light Cycle Oil

SDS No. 0326
EU/CLP GHS

Synonyms: Crude Petroleum: Sour Crude

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 3
Acute Toxicity, Inhalation - Category 4
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2
Carcinogenicity - Category 1B
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation, narcosis)
Specific Target Organ Toxicity (Repeat Exposure) – Category 1 (liver, kidneys, blood, nervous system)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 2

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

DANGER

Hazard Statements

Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
May cause cancer.
Suspected of causing genetic defects.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to liver, kidneys, blood, nervous system through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Toxic to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe fume/mist/vapors/spray.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog or foam.
If on skin (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
If swallowed: Immediately all a poison center or doctor/physician if you feel unwell. Do NOT induce vomiting.

Storage

Store in a well-ventilated place.
Keep cool. Store locked up.
Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
64741-59-9	Petroleum distillates, light catalytic cracked	100

A complex combination of hydrocarbons produced by the distillation of products from the fluidized catalytic cracking (FCC) process with carbon numbers in the range C9 to C25, boiling in the approximate range of 340 to 700 °F.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and the area of the body burned.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Product may release substantial amounts of flammable vapors and gases (e.g., methane, ethane, and propane), at or below ambient temperature depending on source and process conditions and pressure.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection - do not discharge solid water stream patterns into the liquid resulting in splashing.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Keep away from strong oxidizers; Viton ®; Fluorel ®

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

The EU, ACGIH, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of this product's components.

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile or neoprene are recommended.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Straw-colored, water-like	**Odor:**	Mild, petroleum distillate odor
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	0.009 psia @ 70 °F (21 °C)	**Vapor Density:**	>1.0
Boiling Point:	340 to 700 °F (171 to 371 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	AP 0.9 @ 60°F (16°C)
Evaporation Rate:	Slow; varies with conditions	**VOC:**	ND
Percent Volatile:	100%	**Octanol/H2O Coeff.:**	ND
Flash Point:	100 °F (38 °C) minimum	**Flash Point Method:**	PMCC
Upper Flammability Limit (UFL):	ND	**Lower Flammability Limit (LFL):**	ND
Burning Rate:	ND	**Auto Ignition:**	ND

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers; Viton ®; Fluorel ®

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Petroleum distillates, light catalytic cracked (64741-59-9)

Inhalation LC50 Rat 3400 mg/m3 4 h; Inhalation LC50 Rat 4.65 mg/L 4 h; Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly. Rare, precancerous warts on the forearms, backs of hands and scrotum have been reported from prolonged or repeated skin contact.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause moderate to severe irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

Material of similar composition has been positive in a mutagenicity study.

Carcinogenicity

A: General Product Information

May cause cancer.

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, light catalytic cracked (64741-59-9)

Test & Species		Conditions
96 Hr LC50 Brachydanio rerio	7.3 mg/L [semi-static]	

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

IATA Information

Shipping Name: Gas oil
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

ICAO Information

Shipping Name: Gas oil
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

IMDG Information

Shipping Name: Gas oil
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis - Inventory

Component	EC #	TSCA	CAN	EEC
Petroleum distillates, light catalytic cracked 64741-59-9	265-060-4	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet