



FOCUSED SURFACE SOIL INVESTIGATION



Peninsula Iron Works Facility BUILDING 2

6618 N. Alta Avenue
Portland, Oregon

ODEQ ECSI#: 6480

Prepared for:

Peninsula Iron Works

Attn: Dave Johnson

PO BOX 83067

Portland, Oregon 97283-0067

Issued on:

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This

Focused Surface Soil Investigation

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Report for:

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Attn: Dave Johnson
PO Box 83607
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Issued March 28, 2023 by:



EVRENNORTHWEST
INC.
environmental natural resource consultants



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List of Acronyms and Abbreviations

A-1254	Aroclor 1254	OWRD	Oregon Water Resources
A-1260	Aroclor 1260		Department
bgs	below ground surface	PAHs	polynuclear aromatic
CFSLs	clean fill screening levels		hydrocarbons
Client`	Peninsula Iron Works (PIW)	PCBs	polychlorinated biphenyls
COIs	constituents of interest	PID	photoionization detector
COPCs	contaminants of potential concern	ppm	parts per million
CULs	Cleanup Levels, Soil Matrix	ppmv	parts per million by volume
DPT	direct-push technology	QA/QC	quality assurance/quality control
DRO	diesel-range organics	RBCs	risk-based concentrations
DU	decision unit	RBDM	Risk-Based Decision Making for the
ENW	EVREN Northwest, Inc.		Remediation of Contaminated
EPA	U.S. Environmental Protection		Sites, ODEQ 2003 Guidance
	Agency		Document
ESA	Environmental Site Assessment	ROD	Record of Decision
F&BI	Friedman & Bruya, Inc.	RRO	residual (oil)-range organics
	(laboratory)	SLRBCs	screening-level risk-based
FSSI	Focused Surface Soil Investigation		concentrations
GRO	gasoline-range organics	SLV	screening level value
ISM	Incremental Sampling	SOW	scope of work
	Methodology	TPH	total petroleum hydrocarbons
JSCS	Joint Source Control Strategy,	µg/L	micrograms per liter
	Portland Harbor	USGS	US Geological Survey
mg/Kg	milligrams per Kilogram	UST	Underground Storage Tank
OAR	Oregon Administrative Rules	VOCs	volatile organic compounds
ODEQ	Oregon Department of		
	Environmental Quality		

1.0 Introduction

On behalf of Peninsula Iron Works (PIW, client), EVREN Northwest, Inc. (ENW) performed a Focused Surface Soil Investigation (FSSI) at the property located at 6618 N. Alta Avenue, Portland, Oregon (subject site; see Figures 1 and 2). Peninsula Iron Works conducted the FSSI to further characterize and delineate polychlorinated biphenyl (PCBs) in surface soil in the areas adjacent to their facility, as requested by the Oregon Department of Environmental Quality (ODEQ)¹, as well as areas underlying the southern portion of their building. The work follows the scope of work and procedures presented in ENW's *May 2022 Work Plan*² which was approved by ODEQ prior to commencement of field activities.

This report presents a brief description of site development history and previous sampling investigations, soil sampling methods and results. A site plan of the facility showing primary site features is included on Figure 2.

1.1 Site Development History

The PIW site development history is documented in ENW's *Letter Response - Summary of Findings* letter to ODEQ dated November 17, 2021,³ and summarized below.

- An industrial building approximately 100 feet by 160 feet was used as a machine shop and blacksmith shop in the early 1900s. Foundry operations were reportedly powered with electricity, gas, coke, and coal which was stored in a loft inside the building and fed to forges from above. In the 1920s the facility housed three (3) machine shops, tool storage, and foundry, with portions of the building noted to have wooden floors. By 1950, the facility consisted of a machine shop, machine shop tool room, pattern shop, pattern loft, chipping room, foundry, and office. A “coke oven” and “air compressor” were located in the central part of the facility.
- In February 1956, the PIW building was burned in a fire with the blaze reportedly spreading from a shallow space beneath the wood floor of the building. Ensuing building demolition and reconstruction activities may have resulted in surface soil from outside the building footprint being tracked inside the footprint. The building after the fire housed a machine shop in the west half of the facility, and the east side was used for storing machinery. Paint and oil storage was indicated on the south side of the subject property (1969 Sanborn map).
- An approximately 630-gallon underground storage tank (UST) containing heating oil was decommissioned by removal on September 12, 2012, from under an asphalt pavement at a position along the south side of the building and 50 feet east of the southwest corner of the

¹ ODEQ, October 11, 2021. *Re: PCB Area Wide – N Bradford St. ROW, Portland, Oregon; ECSI ID#6480.*

² ENW, August 9, 2022. *May 2022 Work Plan Focused Surface Soil Investigation* (Revised August 2022), Peninsula Iron Works Facility Building 2, 6618 N Alta Avenue, Portland, Oregon, ODEQ ECSI#: 6480, Prepared For: Peninsula Iron Works, Attn: Dave Johnson, PO Box 83067, Portland, Oregon 97283-0067.

³ ENW, November 17, 2021. *Letter Response – Summary of Findings, PCB Areawide – N Bradford St ROW, Portland, Oregon*, to Kevin Parrett, Manager, Northwest Region Cleanup Program, Oregon Department of Environmental Quality, 700 NE Multnomah Street, Suite 600, Portland, Oregon 97232.

building. An oil shed was formerly located above this UST. The machine oil/coolants Peninsula iron Works used in its machining operations were stored in this shed.

- In the 1970s and later in the 1990s, the western portion of the shop was separated from the east side by a drive-in bay and a 20-foot-deep concrete lined pit was constructed to house a large vertical boring mill.
- An asphalt parking lot maintained by the City of Portland (city) covers a vacant lot on the south side of the building. The city acquired this property from Multnomah County in the early 1970s for the creation of Cathedral Park.
- The subject vicinity has been the location of several industrial operations, including a ship building plant during WWII, a large Woolen Mills facility, and others. Cathedral Park to the south was developed around 1980.

1.2 Project Background

During Previous investigations conducted by the City Portland Bureau of Environmental Services (BES) identified impacts of PCBs as Aroclors in catch basin sediment and shallow soil in areas adjacent to the subject property their source investigations in storm water Outfall Basin 52 between June 2008 and January 2011.⁴ (Refer to Figures 3A and 3B for previous PCB sample locations near the PIW facility).

City of Portland Catch Basin Sampling. Inline sediment samples from catch basin ANE911 at the western end of N. Alta Avenue, receiving surface water drainage from adjoining industrial properties, had total PCB concentrations at up to 8.16 milligrams per kilogram (mg/Kg) (as Aroclor 1260 or A-1260). These concentrations exceeded the Portland Harbor Joint Source Control Strategy (JSCS) screening level value (SLV) of 0.0039 mg/Kg for total PCBs, as well as the U.S. Environmental Protection Agency's (EPA's) cleanup objective of 0.009 mg/Kg for total PCBs listed in the 2017 Record of Decision (ROD) for the Portland Harbor.

BES Soil Sampling. Based on the source investigation results for catch basin ANE911, BES conducted additional investigation of surface soil surrounding the catch basin to evaluate whether erodible surface soil could be contributing to impacts at catch basin ANE911. Eight surface soil composite samples and one discrete sample were collected on January 6, 2011, along the Union Pacific Railroad (UPRR) corridor running through the unimproved N Bradford Street ROW from positions north of the St. Johns Bridge to positions approximately 100 feet north of the N. Alta Street ROW. Results suggested the presence of total PCBs at concentrations up to 11.9 mg/Kg (as A-1260) in composite surface soil samples collected from areas that drain to the catch basin ANE911, and at concentrations up to 21.7 mg/Kg (as A-1260) in composite surface soil samples collected at the south end of the N. Bradford Street ROW west of the parking lot.

On September 20, 2011, BES collected additional surface soil samples (NBRAD1 through NBRAD8) and advanced five soil borings (B1 through B5; see Figure 3A for sample locations; cumulative laboratory results are presented on Table 1). Total PCBs were detected at concentrations up to 4.3 mg/Kg (NBRAD3 Duplicate) in the N Bradford Street ROW. A concentration of 1.05 mg/Kg was detected in boring B1, sited adjacent to the southeast corner of the subject property, at between 0.5- and 1-foot bgs.

⁴ City of Portland, May 2012. Outfall 52, Source Investigation Report.

Based on the results of previous soil investigation by BES, ODEQ requested that PIW enter ODEQ's Voluntary Cleanup Program (VCP) to further assess PCB contamination documented in areas adjacent to the subject property.⁵

ODEQ Soil Sampling. On May 18, 2022, in accordance with ODEQ's *Site-Specific Work Plan*,⁶ ODEQ's contractor collected surface soil samples from a depth of 0-2 inches using incremental sampling methodology (ISM) from 11 decision units (DU01-DU08 and DU10-DU12) and one composite sample (COMP09). This sampling was conducted in response to community concerns related to PCB contamination in soil adjacent and possibly within Cathedral Park, specifically in adjacent areas east and west of the North Bradford Street/UPRR ROWs (see Figure 3B). However, ODEQ's contractor was not authorized to sample surface soils within the UPRR ROW. Samples were analyzed for diesel-range organics (DRO), residual (oil)-range organics (RRO), and total PCBs (as Aroclors). DRO was only detected in DU01 located NE of the UPRR ROW and south of the St. Johns Bridge. Reported total PCBs [Aroclor 1254 (A-1254) and Aroclor 1260] concentrations ranged from 0.0374 mg/Kg in DU07 to an estimated concentration of 3.45 mg/Kg from DU10 located on the west side of the UPRR ROW and the parking lot north of the bridge and south of the subject site. Composite sample COMP09 (est. total PCBs of 2.67 mg/Kg) and incremental sample DU10 are the only samples that exceeded ODEQ's recreational use soil RBC of 0.52 mg/Kg for ingestion, inhalation, and dermal contact. See Figure 3B for PCB totals plotted by DU location, and Table 1 (attached) for analytical results.

1.3 Purpose

The purpose of this FSSI was to obtain comprehensive surface soil data and evaluate the data relative to the City's and ODEQ's previous data to delineate the extent of PCBs previously detected near the facility in areas immediately adjacent to the PIW property.

1.4 Scope

The FSSI scope of work included the following tasks:

- Collect incremental surface soil samples from one decision unit (DU01)⁷ from an area of exposed soil adjacent to the southern margin of the subject property. Soil increments were collected at depths matching BES' previous sample depth range of 0-0.2 feet.
- Advance eight borings (B01-B06 and B44-B45) within paved portions of the N Bradford Street ROW adjacent to UPRR ROW west of the subject property, 17 borings (B07-B21 and B40-B41) within the N Alta Avenue ROW north of the subject property, 18 borings (B22-B39) within paved portions of the City parking area for Cathedral Park on the south side of the subject property, and four borings (B42-B43 and B46-B47) through the concrete floor inside the PIW facility. Interior borings B42 and B43 correspond respectively to exterior borings B40 and B41 located north of the

⁵ ODEQ. January 18, 2022. Letter: *PCB Areawide - N Bradford St. ROW, Portland, Oregon*, ECSI ID# 6480

⁶ Maul Foster Alongi, May 12, 2022. *Site-Specific Assessment Work Plan, Cathedral Park Site*, DEQ Task Order 73-18-25, Prepared for Oregon Department of Environmental Quality.

⁷ Note, the work conducted on behalf of ODEQ in 2022 also has a decision unit referred to as DU01. The discussion of DU01 in this report (scope and findings) is specific to the investigation conducted by ENW for PIW in 2022/2023.

subject building in the N Alta Street ROW. Likewise, interior borings B46 and B47 correspond respectively to exterior borings B44 and B45 located west of the subject building in the N Bradford Street ROW adjacent to the UPRR ROW.

- Collect depth-discrete samples from each boring at depths of approximately 0 to 0.5 feet, 1 to 1.5 feet, and 2 to 2.5 feet below subgrade, i.e., beneath the asphalt pavement or concrete floor, where present; otherwise, depth discrete samples were collected at these same depth intervals below the unpaved ground surface.

Note that the concrete slab floor elevation in PIW's building is estimated to be at least 1-foot higher than the paved surface elevation just outside the building, which suggests that samples beneath the building's slab floor would be approximately 1-foot higher in elevation than samples collected outside the building wall. However, ENW referenced sampling depths from subgrade elevation, i.e., base of concrete or asphalt. Therefore, the difference in elevation between interior and exterior sample intervals is offset somewhat by the fact that the building's concrete floor slab is up to ½-foot thicker in places than the outdoor asphalt pavement, resulting in an elevation difference of only ½-foot. Of further note, the fine- to medium-grained sand underlying PIW's building differs markedly from the undocumented gravel fill and debris (brick, metal slag, glass, and wood) underlying the N Alta Avenue ROW to the north, N Bradford Street ROW to the west, and city parking lot to the south (see section 4.1.1).

- Analyzing all ISM and discrete soil samples for total PCBs (as Aroclors) and six samples for PCBs (as congeners) using Oregon-certified laboratories.
- Evaluating analytical results of soil samples with respect to Oregon regulatory standards and ODEQ guidance documents.
- Preparing this report documenting site conditions.

Borehole and MIS locations are shown on Figure 4.

2.0 Site Setting

2.1 Location, Land Use, and Site Description

Multnomah County identifies the site as tax lot 1N1W12BB 5800, consisting of about 0.46 acres of industrial land (zoned EG₁, *General Employment*). The site is developed with an approximately 17,020 square-foot machine shop / warehouse building since being constructed in 1909, reconstructed after a fire in 1956, and extensively remodeled in the 1970s and 1990s. Nearby surrounding properties also have a history of heavy industrial use having more recently transitioned to a mix of open space, commercial, residential, and industrial uses.

2.2 Topography

The subject site is located within the U.S. Geological Survey Portland 7.5-minute quadrangle, at an approximate elevation of 34 feet above mean sea level (Figure 1). The site is sloped slightly to the west with approximately 4-feet in elevation drop between the eastern and western property boundaries.

Regional surface topography drops gradually to an elevation of approximately 10 feet above mean sea level at the Willamette River, located 900 feet west of the subject property.

2.3 Geologic Setting

The site is located within the Portland Basin of Oregon. The Portland Basin is a topographic low area around the confluence of the Columbia and Willamette Rivers, between the Cascade Mountains to the east and the Portland Hills and Tualatin Mountains to the west. The Portland Basin is floored by a blanket of sediments deposited by the late Pleistocene catastrophic Missoula Floods and by younger deposits of the active rivers and creeks. Also within the basin are slightly older highlands of basaltic lavas which protrude from below the younger sediments. Geologic mapping shows the site is located on fine-grained facies of the Pleistocene catastrophic flood deposits.

2.4 Hydrogeologic Setting

2.4.1 Surface Water

According to the Federal Emergency Management Act (FEMA) Flood Panel Map 410183, the PIW facility lies near the margin of the 100- and 500-year flood plain of the Willamette River (see Figure 5). Willamette River flood waters have periodically lapped onto the western part of the subject site according to Sanborn maps and historical aerial photographs.

The site has a history of ponding storm water accumulation around the southwest and northern portions of the site because of local surface topography and the subject site being located at a low point. Storm water has periodically flowed from the areas of higher elevations to the east and settled along the western side of the subject site. A 1956 aerial photograph provided by the University of Oregon Knight Library documents ponding waters surrounding the south and north sides of the subject site during a period of heavy industrial operations in the area prior to the paving of the south parking area and the N. Alta Avenue ROW. The owners of PIW report flooding inside of the facility during periods of heavy rain. More recently, ponding storm water between the subject site and the railroad easement/ballast was documented in a City of Portland Industrial Source Control Memo to Peninsula Iron Works, dated January 19, 2012.

2.4.2 Ground Water

According to nearby water well logs obtained from Oregon Water Resources Department (OWRD), depth-to-ground water in the vicinity is greater than 30 feet. Based on regional topography, ground-water flow direction should be toward the west or southwest, towards the Willamette River.

3.0 Methods and Procedures

This section describes methods and procedures of the field investigation activities completed during this FSSI. Field activities were performed between November 9, 2022 and January 23, 2023. Field work was photographically logged and a photolog is presented in Appendix A. Figure 4A presents the investigation areas sampled, which are generally spilt into four areas of investigation.

3.1 Field Preparation

Prior to subsurface field activities, ENW placed a call with One Call Utility Notification Service to identify and locate all public utilities near each of the sampling locations. All workers reviewed the safety procedures and signed the site-specific Health and Safety Plan prior to initiating all field work. Additionally, permits were obtained from the City of Portland for drilling in the adjacent N Alta Avenue ROW, N Bradford Street ROW, and City parking lot.

3.2 Incremental Surface Soil Sampling

ENW used ISM to conduct representative sampling of surface soil within an exposed grass strip adjacent to the southern margin of the subject property, identified as DU01. The Incremental Sampling Method is described in the Work Plan and the locations targeted for sampling in DU01 are illustrated in Figure 4A.

Since the ISM DU represents a long rectangle, sampling followed Section 4.2.5.1 of the State of Hawaii's DU guidance for locating increments in long, narrow DUs.⁸ The DU was divided in a grid pattern consisting of approximately 50 grids, where the soil incremental locations were evenly spaced and form a zig-zag pattern in the long narrow DU. Soil increments (soil samples of equal mass) were collected from the center node of each increment grid (grid-center systematic sampling) resulting in collection of 50 soil increments from the DU. Grid locations were distributed evenly within the DU to ensure that the entire DU population was equally represented in the final multi-increment sample (see Figure 4A).

Soil increments were sampled using a stainless-steel push probe and/or hand auger to capture all grain sizes to ensure no bias in particle size. As per the ISM, wood debris and larger rocks were removed from each soil increment prior to combining in the laboratory-provided sample container. To obtain meaningful evaluation against previous findings, soil increments from DU01 were collected at the same depth as that of previous sampling by the ODEQ (0 to 0.2 feet).

Incremental samples were labeled using the naming convention "DU01", where "01" represents the decision unit number. Sampling personnel wore fresh Nitrile gloves, and all sampling equipment was decontaminated to prevent cross-contamination between DU01 and other samples.

In addition to the incremental sample collected from DU01, two replicate samples were collected from DU01 for quality assurance / quality control (QA/QC) purposes. Replicate incremental samples were collected from at least one- (1-) foot from the initial DU sample within each sample grid. The replicates were labeled with "REP01 and "REP02" appended to the sample identification.

3.3 Soil Borings

Between November 11, 2022, and January 23, 2023, ENW advanced 47 soil borings for the purpose of collecting soil samples for laboratory analysis of contaminants. Borings were placed generally 50 feet on center and included locations adjacent to the N. Bradford Street ROW to the west, the N Alta Avenue ROW to the north, the city parking lot to the south and select locations inside the PIW building. Interior soil boring locations were sited within the machine shop, next to one of the boring machine pits, oil and waste oil storage, air compressors, foundry, clay storage, and casting sands storage areas.

⁸ State of Hawaii Department of Health, July 2021. Characterization of Decision Units.
<https://health.hawaii.gov/heer/tgm/section-04/#4.2.5>

The soil borings were advanced to a maximum depth of three (3) feet using a stainless-steel hand auger or manual direct-push technology (DPT) drill tooling. Soil materials recovered from the DPT drill rods were inspected for the presence of contamination using visual and olfactory inspection. Soils exhibiting observable staining were additionally field screened using a photoionization detector (PID). Soil lithology, field screening results, and other observations were recorded by an ENW geologist onto boring logs, presented in Appendix B.

3.3.1 Sample Collection

Soils were retained for laboratory analysis from 0 to 0.5-feet, 1.0- to 1.5-feet, and 2.0- to 2.5-feet below subgrade from each soil boring. Soil samples were transferred directly into laboratory-prepared sample containers sealed with a Teflon-lined cap to minimize headspace, uniquely labeled, and preserved on artificial ice in a cooler pending delivery to the laboratory.

3.3.2 Field Quality Assurance/Quality Control Samples

Field Quality Assurance/Quality Control (QA/QC) samples collected from decision unit DU01 and borings assessed the data quality in terms of precision and accuracy and monitor whether sampling procedures, equipment cleaning, packaging, and shipping are compromising sample integrity or validity of sample data.

- **Field Duplicates (soil borings):** One field duplicate for soil was collected for approximately every 20 discrete soil samples collected. Field duplicates were labelled by the prefix “FD” followed by a sequential number “01, 02, ..., etc.” Each field duplicate sample was collected, handled, and analyzed in the same manner as its paired primary field sample.
- **Field Replicates (ISM samples):** Two field replicates were collected from DU01 to assess precision of the field sampling and ensure that the ISM sample concentration is adequately representative of the DU.
- **Laboratory duplicates (ISM samples):** The laboratory analyzed an independent replicate of the processed ISM sample (replicate from the slab cake sample) to test the precision of the laboratory subsampling used for extraction and analysis.

3.3.3 Boring Completions

Upon completion of soil sampling, soil borings were abandoned with bentonite chips and capped with hydraulic cement.

3.4 Analytical Methods

A total of 139 discrete soil boring samples, one incremental sample with two replicates, and seven (7) field duplicate samples were delivered to Friedman and Bruya, Inc. (F&BI) of Seattle, Washington for laboratory analysis for PCBs (as Aroclors). F&BI analyzed 16 of the samples for total petroleum hydrocarbon Identification (TPH-HCID, based on field screening), with follow up analysis as appropriate. Six of the samples were selected for PCB congeners analysis, which were subcontracted to Frontier Analytical Laboratory in Eldorado Hills, California. A copy of the laboratory analytical reports is included in Appendix C. Table 3-1 presents analytical methods used to assess COIs during this assessment.

Table 3-1. Analytical Methods

Analytical Method	Constituents of Interest	Soil
EPA 8082A	Polychlorinated Biphenyls (PCBs)	✓ DU01 incremental sample and all discrete soil samples
EPA 1668	PCB Congeners	✓ Select surface soil samples to include at least two samples at the high, medium, and low range of detected PCBs.
NWTPH-HCID	Total Petroleum Hydrocarbons Identification (HCID).	✓ Select soil samples exhibiting field evidence of petroleum impact
NWTPH-Gx	Total Petroleum Hydrocarbons as gasoline-range organic (GRO)	✓ Soil samples with GRO indicated present by method NWTPH-HCID and select samples for vertical delineation
NWTPH-Dx	Total Petroleum Hydrocarbons as diesel-range organic (DRO) / residual (oil)-range organic compounds (RRO)	✓ Soil samples with DRO and/or RRO indicated present by method NWTPH-HCID and select samples for vertical delineation
EPA 8260D	Gasoline-related volatile organic compounds (VOCs)	✓ Samples with detectable GRO by NWTPH-Gx
EPA 8270E	Polynuclear aromatic hydrocarbons (PAHs)	✓ Samples with detectable DRO by NWTPH-Dx

3.5 Laboratory Sub-Sampling and Compositing

Prior to analysis, incremental sample DU01 and all replicate ISM samples from DU01 were processed by F&BI according to the incremental sampling methodology, as outlined in the approved work plan.²

3.6 Cleanup Standards and Other Numeric Criteria

Oregon's environmental cleanup rules (Oregon Administrative Rules [OAR] 340-122) establish the standards and procedures for the protection of current and future public health, safety and welfare, and the environment in the event of a release or threat of a release of a hazardous substance. In the event of a release of a hazardous substance, remedial actions shall be implemented to achieve:

- Acceptable risk levels defined in OAR 340-122-0115, as demonstrated by a residual risk assessment; or
- Numeric cleanup standards developed as part of an approved generic remedy identified or developed by the Department under OARR 340-122-0047, if applicable; or
- For areas where hazardous substances occur naturally (e.g., metals, etc.), the background level of the hazardous substances, if higher than those levels specified above.

Acceptable risk levels may be evaluated through conducting a site-specific risk assessment that calculates exposure point concentrations for specific exposure pathway receptor-scenarios or use generic for hazardous substances under ODEQ's Risk-Based Decision Making (RBDM) guideline to streamline the risk assessment process (see below).

The assessment and remediation of hazardous substances in Oregon are conducted according to OAR 340, Division 122, *Hazardous Substance Remedial Action Rules*. The following cleanup standards and numeric criteria may be applied in evaluating site assessment results.

ODEQ Risk-Based Concentrations. ODEQ has compiled default risk-based screening reference levels (RBDM guidance document) for common exposure-pathway receptor-scenarios that may be utilized in

lieu of site-specific risk calculations (OAR 340-122-0115). In particular, the pre-calculated risk-based concentration (RBC) represents the concentration of a constituent of interest (COI) in the impacted medium (e.g., soil, ground water, or air) that potentially represents an unacceptable risk level.

The published RBCs represent a conservative default concentration of a COI in an impacted medium (e.g., soil, ground water, soil gas, or air). When COI concentrations on a site exceed the RBC, unacceptable human health impacts are possible.

- For carcinogens, the regulatory standard is represented by an excess cancer risk of one in one million (1×10^{-6}), and
- For non-carcinogens, this is represented by a Hazard Index of 1.

RBC exceedances typically trigger further investigation and potentially a human health risk assessment. Therefore, RBCs can be applied at sites as generic, conservative cleanup standards and are routinely used by ODEQ to determine if a site requires additional action. Site-specific parameters used in the equations to develop the RBCs are often adjusted to match actual conditions in developing site-specific cleanup levels.

RBCs are generally used to evaluate sampling analytical results as follows:

- Because ODEQ Generic RBCs are based on several conservative assumptions (e.g., duration and type of exposure), exceeding an RBC does not necessarily indicate that additional investigation or remediation is required. Rather, the exceedance of an RBC may indicate that additional investigation and evaluation, including consideration of site-specific information (e.g., current, and future land uses), may be necessary to determine if remediation or other actions are necessary. In many cases, it is not possible to determine whether unacceptable risks to human health and the environment are present, and require further action, until a risk assessment, including evaluation of current and reasonably likely land and water uses, is complete.

Should constituents be identified that also exceed their generic, but exposure pathway- and receptor-specific RBCs, then the appropriateness of additional site-specific methods allowed under the RBDM guidance document will be evaluated (e.g., the development of site-specific RBCs, sampling of soil gas and/or vapor, etc.).

RBC for the Recreational User. ODEQ considers the recreational user to be at greatest risk of exposure to site contaminants based on current and future land use conditions. ODEQ has not developed generic RBCs for the recreational user. However, ODEQ staff have calculated a site-specific RBC for the dermal contact pathway using a set of conservative input values using risk equations provided in the OARs. ODEQ provided the RBCs in an email for this project. Based on discussion with ODEQ, the recreational RBC is an appropriate screening level for soil impacts at the facility. This investigation screens soils against the calculated dermal RBCs for the recreational user, as well as the generic RBCs for dermal contact by the occupational worker, construction worker, and excavation worker receptors.

4.0 Results

This section describes the results of the FSSI, which included:

- Advancing and sampling of soil borings EB01 through EB47.
- Incremental surface soil sampling at the 0 to 0.2-foot depth from decision unit DU01, plus replicate samples DU01-REP1 and DU01-REP2.

The results of laboratory analysis of the soil samples from borings and incremental samples are summarized in Table 1 (following the Tables Tab after text). Site photographs of field activities are included in Appendix A. Soil boring logs are presented in Appendix B. Analytical laboratory reports are included in Appendix C.

4.1 Sample Locations and General Subsurface Conditions

Discrete and incremental samples were collected in November 2022 and January 2023, as summarized in Table 4-1.

Table 4-1. Summary of FSSI Soil Samples

Sample ID	Date Sampled	Depth Sampled (feet)	Location
DU01	11/9/2022	0.2	South Side of Building - Planter
DU01 REP01		0.2	
DU01 REP02		0.2	
B01 through B06	11/9/2022	0.5	West Side of Building - N. Bradford ROW
		1.5	
		2.5	
EB45 and EB46	1/23/2023	0.5	
		1.5	
		2.5	
B07	11/9/2022	0.5	North Side of Building - N. Alta Ave. ROW
B08 through B21	11/10/2022 and 11/11/2022	1.5	
		2.5	
		2.5	
EB40 and EB41	1/23/2023	1.5	
		2.5	
		2.5	
B22 thru B39	12/13/2022 and 12/14/2022	1.5	South Side of Building - Parks Dept. Parking Lot
		2.5	
		2.5	
EB42, EB43, EB46, EB47	1/23/2023	1.5	Interior of PIW Building (former machine shop and equipment pits)
		2.5	
		2.5	

As per the work plan, ENW collected a field duplicate at a frequency of approximately every 20 samples taken and equipment blank samples during each day. Additionally, ENW requested a laboratory

duplicate sample for DU01 and two replicates from DU01 to measure precision in ISM processing. A list of QA/QC samples and reference location are listed in Table 4-2.

Table 4-2. Summary of QA/QC Samples

Sample ID	Date Sampled	Depth Sampled (feet)	Location
DU01 REP01 dup	11/9/2022	0.20	Laboratory duplicate (DU01-REP01)
DU01 REP02 dup	11/9/2022	0.20	Laboratory duplicate (DU01-REP02)
FD01	11/9/2022	0.50	Field duplicate (B04-0.5)
FD02	11/10/2022	1.50	Field duplicate (B20-1.5)
FD03	11/11/2022	2.50	Field duplicate (B14-2.5)
FD04	12/13/2022	1.50	Field duplicate (B28-1.5)
FD05	12/13/2022	1.50	Field duplicate (B29-1.5)
FD06	12/14/2022	1.5	Field duplicate (B38-1.5)
FD07	1/23/2023	1.5	Field duplicate (B43-1.5)
RINSA TE01	11/9/22	---	Equipment Blank from Day 1
RINSA TE02	11/10/22	---	Equipment Blank from Day 2
RINSA TE03	11/11/22	---	Equipment Blank from Day 3
RINSA TE04	12/13/22	---	Equipment Blank from Day 4
RINSA TE05	12/13/22	---	Equipment Blank from Day 5
RINSA TE06	12/14/22	---	Equipment Blank from Day 6
RINSA TE07	1/23/23	---	Equipment Blank from Day 7

4.1.1 Surface and Subsurface Conditions

The areas adjacent to the PIW building targeted for sampling as part of this investigation consisted mostly of asphalt or concrete surfaces, except for a strip of grass-covered area long the southern margin of the PIW building, between the building and the adjacent city parking lot. Field data indicate that the site is underlain with the following materials:

Asphalt/Concrete Slab/Base Rock. Approximately 2-inches of asphalt or concrete and 6 to 18 inches of subangular gravel base rock were encountered at most borings. Up to 18 inches of gravel road base with no asphalt cover were encountered at borings EB40, EB41, EB44, and EB45. The areas within the footprint of the PIW building had a thick concrete slab measuring up to 10 inches in thickness. *(Please note: Sample depths for interior borings are referenced to the bottom of the concrete slab. The thickness of the concrete slab should be added to the designated sample depth to obtain depth below the concrete floor elevation).*

Undocumented Fill. Up to 2.5 feet of Undocumented Fill was encountered in most borings site exterior to the building. Undocumented Fill consists of variable amounts of silt with gravel, with some materials also containing brick fragments, glass, and metal slag up to 2-inches in diameter, glass shards, and burnt wood. Color was highly variable ranging from black, tan, orange, brown and gray. Undocumented fill extended to the maximum depth of all borings along the west side of the building except EB04, where it was approximately 1.5 feet thick. Undocumented fill ranged from approximately 12 inches thick to over 2.5 feet thick beneath N. Alta Avenue on the north side of the building, and between approximately 12 inches thick up to at least 3 feet thick beneath the city parking lot on the south side of the building.

Undocumented fill was encountered to the maximum depth of boring EB46 within the west end of the building footprint.

Fine to Medium Sand (SW, SP, SP-SM). Was encountered beneath the concrete slab or subgrade gravel in three of the four borings (EB42, EB43, and EB47) completed within the building footprint. These non-cohesive soils were poorly to well-graded; yellow-brown, brown, to light gray; barely moist to moist; mottled orange in one boring (EB42); strongly micaceous; and extended to the maximum boring depth of 3 feet below subgrade.

Silt to Fine Sand (ML). Brown, stiff silt with fine sand with trace to abundant mica was encountered below the Undocumented fill and extended to the maximum depth explored of 3.5 feet below concrete floor inside the PIW Building. These fine-grained soils were thinly laminated at boring EB40 consistent with fine-grained facies of catastrophic flood deposits. These unconsolidated sediments were slightly moist to moist, medium loose to stiff, and appeared to increase in grain size and mica content with depth. Ground water was not encountered in any of the borings advanced during the investigation.

Slight to moderate soil staining was encountered at boring EB13, EB20, EB35, EB42, EB43, EB46 and EB47. PID headspace readings were generally below 1.0 parts per million by volume (ppmv) in grab samples from all borings except in B20, where readings up to 20.7 ppmv were recorded. ENW requested analysis of total petroleum hydrocarbons on all soil samples that exhibited field evidence of petroleum impacts (i.e., odor, elevated PID response, or discoloration), plus follow up analysis by VOCs and PAHs as appropriate.

4.2 Laboratory Analytical Results

A summary of the analytical results is provided below. Samples were generally received within required holding times, and analytical methods were performed within acceptable QA/QC criteria.

4.2.1 Total Petroleum Hydrocarbons

A total of 16 soil samples were either analyzed by HCID analysis or quantified directly by NWTPH-Gx and NWTPH-Dx. Laboratory analysis detected the presence of total petroleum hydrocarbons in only one of the 16 samples analyzed.

GRO was detected in the 0-0.5-foot sample from B35 at a concentration of 20 mg/Kg, and DRO was detected in the same sample at a concentration of 450 mg/Kg. The DRO was flagged “x” by the laboratory to indicate that the chromatograph pattern was not typical of the diesel product used for quantitation. The DRO result is considered an artifact of high organic content in soils, or possibly overlay from weathered gasoline gasoline-ranges petroleum hydrocarbons. The GRO and DRO concentrations do not exceed ODEQ’s RBCs used for screening as part of this investigation.

4.2.2 Volatile Organic Compounds

Since GRO was detected in the sample from B35, further analysis of GRO-related VOCs was performed on the sample to assess the potential presence of fuel-related constituents and additives.

- Gasoline-related VOCs were all below the respective laboratory MRL for all analyzed constituents.

4.2.3 PAHs

The sample from B35 was further analyzed for PAHs based on the presence of DRO in the sample. All of the detected PAH constituents did not exceed their respective dermal contact RBCs for the occupational worker, construction worker, excavation worker or recreational receptor.

4.2.4 PCBs

Each PCB consists of a biphenyl molecule (two benzene rings), within which between 1 and 10 chlorine atoms are substituted leading to a theoretical 209 distinct PCB compounds known as congeners,⁹ though only about 130 of these compounds have been identified in commercial products. The number and placement of the chlorine atoms on the biphenyl molecule determines how the congener is named and dictates its environmental fate and toxicity.¹⁰ Aroclors are the most common commercial mixes of PCB congeners and were manufactured by Monsanto from about 1930 through 1979. The specific Aroclor name reflects the weight percent of chlorine in the mixture, i.e., A-1260 contains 60 weight percent chlorine in the mixture. The more chlorinated Aroclor mixtures are generally the more persistent and toxic.¹⁰

The uses of common Aroclors, i.e., A-1221, A-1232, A-1242, A-1248, A-1254, A-1260, A-1262, and A-1268, are listed in Table A-1 of ODEQ's PCB Fact Sheet.⁹ A-1254 uses listed in ODEQ's Fact Sheet include transformers, capacitors, hydraulic fluids, vacuum pumps, synthetic resins, wax extenders, dedusting agents, inks, cutting oils, pesticide extenders, sealants, caulking compounds, polyvinyl chloride secondary plasticizers, styrene-butadiene co-polymers, ethylene vinyl acetate, and chlorinated rubber. A-1260 uses listed in ODEQ's Fact Sheet include transformers, hydraulic fluids, dedusting agents, polyvinyl chloride secondary plasticizers, polyester resins, and varnish.

Aroclors. Laboratory analysis detected total PCBs (as A-1254 and A-1260) above the laboratory MRL in 73 of the 142 soil samples submitted for PCB Aroclor analysis. The overall detection frequency for total PCBs was of 51.4 %. Total PCB concentrations ranged from 0.024 mg/Kg to 130 mg/Kg with a median concentration of 0.39 mg/Kg. A-1260 was detected in all 73 soil samples at the same concentration range as total PCBs, while A-1254 was only detected in 11 (EB03-1.5, EB10-0.5, EB10-2.5, EB11-0.5, EB11-2.5, EB12-0.5, EB14-0.5, EB14-0.5, EB14-2.5, EB15-0.5, EB31-0.5, and EB31-1.5) of the 142 samples (7.7% frequency) at concentrations ranging from 0.05 mg/Kg to 4.6 mg/Kg (EB11-0.5). Overall, a total of 31 samples (including the DU sample and both replicates) were detected at concentrations exceeding the dermal contact RBC for the recreational receptor of 0.52 mg/Kg. Further discussion of the distribution of PCBs is presented in Section 5.0.

4.2.5 PCB Congeners

Soil samples collected at 0.5-foot from borings EB04, EB17, EB20, EB32, EB36, and EB37 were analyzed for PCB congeners. Total PCB congeners concentrations range from 0.067 mg/Kg to 116.688 mg/Kg (EB04-0.5). Four (4) of the six (6) total congener concentrations exceeded the RBC for the recreational user.

⁹ ODEQ, 2003. Fact Sheet: Sources of Polychlorinated Biphenyls, 11 p., PCB Fact Sheet.CP.8-06-03.doc

¹⁰ Bernard, T. and Petron, S., 2001. Analysis of PCB Congeners vs. Aroclors (Aroclors) in Ecological Risk Assessment, In. Issue Papers: PCB Congeners in Ecological Risk Assessment, 7 p., dated 4/9/01.

Comparison of total PCB Aroclor results to total PCB congener results yields relative percent differences (RPDs) ranging from 10.54% (EB20-0.5) to 68.29% (EB32-0.5).

Correlation charts E-1 through E-3 prepared of congeners PCB-40 to PCB-193 (attributed to A-1254), PCB-82 to PCB-205 (attributed to A-1260), and PCB-1 to PCB-40 (not attributed to either A-1254 or A-1260) are provided in Appendix E and discussed below.

PCB-40 to PCB-193. As suggested by Chart E-1, PCB congeners PCB-40 to PCB-193 are well correlated between samples, with correlation coefficients ranging from 95.9% (EB04:EB32) to 99.5% (EB04:EB20) as presented in Table 4-3 below. While well correlated overall, slightly lower coefficients were attained through correlating the congener arrays to EB17 and EB32, suggesting that the congeners for these two samples are the most dissimilar of the six arrays in the PCB-40 to PCB-193 range. Boring EB17 was sited on the north side of the building, while boring EB32 was sited at the south edge of the city parking lot.

Table 4-3. Correlation of PCB Congeners PCB-40 to PCB-193 Attributed to A-1254

Correlation of A-1254 Congeners				
EB4:EB17	EB4:EB20	EB4:EB32	EB4:EB36	EB4:EB37
0.9752	0.9956	0.9593	0.9916	0.9813
	EB17:EB20	EB17:EB32	EB17:EB36	EB17:EB37
	0.9889	0.9615	0.9649	0.9677
		EB20:EB32	EB20:EB36	EB20:EB37
		0.9621	0.9869	0.9808
			EB32:EB36	EB32:EB37
			0.9635	0.9763
				EB36:EB37
				0.9815
Yellow highlight = lower correlation coeff.				

PCB-82 to PCB-205. As suggested by Chart E-2, PCB congeners PCB-82 to PCB-205 are likewise well correlated between samples, with correlation coefficients ranging from 96.4% (EB04:EB36) to 99.2% (EB04:EB20) as presented in Table 4-4 below. While well correlated overall, slightly lower coefficients were attained through correlating the congener arrays to EB17 and EB36, suggesting that the congeners for these two samples are the most dissimilar of the six arrays in the PCB-82 to PCB-205 range. Boring EB17 was sited on the north side of the building, while boring EB36 was site in the northeast part of the city parking lot.

Table 4-4. Correlation of PCB Congeners PCB-82 to PCB-205 Attributed to A-1260

Correlation of A-1260 Congeners				
EB4:EB17	EB4:EB20	EB4:EB32	EB4:EB36	EB4:EB37
0.9749	0.9917	0.9798	0.9909	0.9809
	EB17:EB20	EB17:EB32	EB17:EB36	EB17:EB37
	0.9857	0.9783	0.9638	0.9671
		EB20:EB32	EB20:EB36	EB20:EB37
		0.9794	0.9807	0.9782
			EB32:EB36	EB32:EB37
			0.9819	0.9912
				EB36:EB37
				0.9802
Yellow highlight = lower correlation coeff.				

PCB-1 to PCB-39. As suggested by Chart E-3, PCB congeners PCB-1 to PCB-39 show less correlation between samples compared to the other arrays, with correlation coefficients ranging from 42.4% (EB04:EB32) to 97.2% (EB36:EB37) as presented in Table 4-5 below. The lowest correlation coefficients were attained through correlating the congener arrays to EB17 and EB32, suggesting that the congeners for these two samples are the most dissimilar of the six arrays in the PCB-1 to PCB-39 range. Boring EB17 was site on the north side of the building, while boring EB32 was collected at the south edge of the Parks Department parking lot.

Table 4-5. Correlation of PCB Congeners PCB-1 to PCB-39

Correlation of PCB Congeners 1-39				
EB4:EB17	EB4:EB20	EB4:EB32	EB4:EB36	EB4:EB37
0.5939	0.9504	0.8861	0.9147	0.9355
	EB17:EB20	EB17:EB32	EB17:EB36	EB17:EB37
	0.7273	0.4245	0.6960	0.7387
		EB20:EB32	EB20:EB36	EB20:EB37
		0.8091	0.9574	0.9686
			EB32:EB36	EB32:EB37
			0.7867	0.7980
				EB36:EB37
				0.9719
Yellow highlight = lower correlation coeff.				

4.3 Quality Control

4.3.1 Replicate Sample Variance

A total of 50 increments were sampled and enough sample volume collected per each increment to attain a total a mass of at least 1000 grams, ensuring sufficient sample volume to meet laboratory MRLs. To test the Quality Assurance / Quality Control (QA/QC) of sampling protocols, replicate samples were collected in triplicate and analyzed along with the primary sample. Replicates were collected sufficiently far from the primary sample and each other to be independent measures of the mean. In addition to field replicates, the laboratory collected a replicate of the sample cake and analyzed for PCBs to test the precision of the laboratory subsampling used for extraction and analysis.

Replicate samples “DU01-REP01” and DU01-REP02” indicated a variance for total PCBs as Aroclors of 46.89% of the calculated mean, and laboratory duplicate samples “DU01-REP01 dup” and “DU01-REP02 dup ” indicated a variance for PCBs of 53.85% of the calculated mean, as shown in Tables 4-6 and 4-7, below.

Table 4-6. Statistical Evaluation of ISM Samples

Analyte	PCBs
Units	mg/Kg
DU01	4
DU01 REP01	1.4
DU01 REP02	3.7
Mean	3.0
Standard Deviation	1.42
Coefficient of Variance	46.89%

Table 4-7. Statistical Evaluation of Laboratory Duplicates

Analyte	PCBs
Units	mg/Kg
DU01 dup	5.4
DU01 REP01 dup	1.5
DU01 REP02 dup	4.8
Mean	3.9
Standard Deviation	2.10
Coefficient of Variance	53.85%

Both results are greater than the acceptable variance between sample and replicate data of 20 percent. However, since all results were above laboratory MRLs, and reported values exceed the lowest screening levels used for assessment, the data are considered to meet the data quality needs for this investigation.

4.3.2 Standard Quality Assurance/Quality Control (QA/QC) Results

The laboratory data are generally suitable for the intended use of shallow soil delineation. Data validation check sheets are included with the analytical reports in Appendix C and summarized in laboratory annotations and quality control notes.

Laboratory data qualifiers. In reporting results for sample B35-0.5, F&BI reported that the chromatograph pattern did not resemble the DRO fuel standard used for quantitation. Because the concentration was below ODEQ Soil Matrix CULs and RBCs used for screening, this qualifier does not impact the findings of this investigation. The hold time was exceeded for the sample from B35-1.5 for the purpose of delineating the vertical extent of impacts in the boring. Because of the hold time exceedance, the results may be biased low. DRO was not detected; therefore, the findings are not affected.

Additionally, Frontier Analytical Laboratory reported several PCB congeners as coeluting compounds in multiple samples. Coeluting compounds made up between 34% and 38% of the total PCB concentrations. Coeluting compounds do not have a significant effect on the total reported PCB concentration of the sample. However, coeluting compounds introduce some error when comparing the mixtures of PCBs in samples. In most cases, coeluting compounds were within a similar range of PCBs; therefore, any bias is not considered significant.

Quality Control Samples. The laboratory results of field duplicate and ISM replicate quality control samples are presented on Table 1 and Table 3 presents results of the equipment blank samples. The following pertinent results were reported.

- **Blind Sample Duplicates.** Laboratory analysis of a blind sample duplicates collected from borings B04, B14, B20, B28, B29, B38 and B43 (FD01 through FD07) reflect a relative percent difference (RPD) ranging from 0% to approximately 84.2% for PCBs. Generally, an RPD of 20% represents the limit of acceptable variance for duplicate samples. Results of the quality control samples reflect the high degree of heterogeneity in Undocumented fill encountered beneath the site.
- **Equipment Blanks.** Equipment blanks were collected from non-dedicated sampling equipment on each day of sampling. Laboratory analysis of equipment blanks reported PCBs in rinsate samples collected on the first two days of sampling (November 9 and 10, 2022) at concentrations of 0.28 micrograms per liter (µg/L) and 0.21 µg/L, respectively. The remaining five equipment blanks did

not contain any analytes at or above the quantitation limit of the test. The presence of equipment blank contamination suggests that all positive sample results could be biased from cross-contamination. Since the equipment blank concentrations are low relative to detected PCB concentrations in soil, the resulting data is sufficiently accurate for the purposes of defining magnitude and extent of PCB impacts in soil. Equipment blank rinsate water data are presented in Table 3.

MRLs above Screening Levels. There are no instances where a constituent was not detected and its laboratory MRL was greater than the RBC used for screening purposes.

5.0 Discussion of Magnitude and Extent of Impact in Soil

This section further describes the distribution of PCBs and the lateral and vertical extent of PCBs in the soil column. For clarity, the discussion is broken down by area of the site. Sample results are presented on Figure 4A, and samples exceeding the dermal contact RBC for the recreational receptor are highlighted in orange. Iso-concentration contours of PCB concentrations and topographic contours from Lidar imagery have been superimposed on Figure 4B to give a visual reference of concentration data.

In general, the highest total PCBs concentrations were detected within the underlying gravel road base or undocumented fill materials beneath the site. The samples containing the highest concentrations of PCBs (i.e., EB04, EB44, EB45, EB09 and EB11) were generally collected in fine to coarse granular fill soils free of buried debris. PCBs were detected at significantly lower concentrations in soils containing brick, kiln brick, etc.

N. Bradford Street ROW (UPRR ROW). The five highest reported PCB concentrations (30 mg/Kg to 130 mg/Kg) occurred in this area beneath the 10-foot-wide asphalt apron abutting the PIW building near the east edge of the UPRR track ballast. This area is a low point and is subject to periodic ponding stormwater such as that observed during the BES' 2012 Stormwater Source Control investigation. Of the 24 samples collected, 18 contained PCBs above the MRL (a detection rate of 75 percent) and eight (8) of the samples exceeded the RBC of 0.52 mg/Kg for the recreational receptor. Only one sample, EB03-1.5, detected A-1254 in addition to A-1260, the only other Aroclor detected.

The highest PCB concentrations at samples EB45-0.5, EB04-0.5, and EB44-0.5 (130 mg/Kg, 77 mg/Kg, and 63 mg/Kg, respectively) are isolated south of the covered bin storage area of the PIW building apron beneath weathered asphalt. The elevated PCB-impacted zone rapidly diminishes to below the recreational RBC of 0.52 mg/Kg to the north at EB05, to the south at EB01, and to the east beneath PIW's building at EB47. RPDs of 170% and 200% are calculated upon comparing the highest PCB concentrations in EB44-0.5 and EB45-0.5 respectively to the starkly lower PCB concentrations in EB46-0.5 and EB47-0.5, collected beneath the west part of PIW's building where heavy machining is conducted.

PCB congeners analysis of sample EB04-0.5 (reported at Table 2) yielded a total concentration of all PCB congeners of 116.688 mg/Kg. By comparison, the "Total PCBs (total as Aroclors)" (reported at Table 1) was 77 mg/Kg. Moreover, the "Total PCBs (total as Aroclors)" detected at boring EB04-0.5 consists entirely of Aroclor 1260.

North of Building in N. Alta ROW. Out of the 49 samples collected on the north side of the building (N Alta Avenue ROW), 29 contained PCBs above the laboratory MRL (59 percent detection rate) and 13 samples exceeded the RBC of 0.52 mg/Kg for the recreational user. Nine (9) samples exceeded the recreational RBC of 0.52 mg/Kg at the 0-0.5-foot sample depth and four (4) samples exceed the RBC at the 2.5-foot sample depth.

A grouping of eight samples exceeding the recreational RBC of 0.52 mg/Kg (EB10-0.5, EB10-2.5, EB11-0.5, EB11-2.5, EB12-0.5, EB14-0.5, EB14-2.5, and EB15-0.5) detected A-1254 in addition to A-1260, the only other Aroclor detected. PCB congeners analysis of EB17-0.5 and EB20-0.5 yielded total congeners concentrations of 0.469 mg/Kg and 1.8 mg/Kg, respectively. The summed concentrations of congeners attributed to A-1260, the only Aroclor detected in these samples by total PCBs analysis, are 0.335 mg/Kg and 1.247 mg/Kg for EB17-0.5 and EB20-0.5, respectively. As suggested by the PCBs as Aroclor analysis and confirmed with the PCBs congener analysis, the majority of the PCBs detected in these soil samples are suggestive of A-1260.

The area north of the building contained relatively lower PCB concentrations compared to the west side of the PIW building; the highest total PCBs concentrations on the north side of 20 mg/Kg and 19.6 mg/Kg were detected in the 0 to 0.5-foot samples from borings EB09 and EB11, respectively. PCB concentrations diminish rapidly to the west at boring EB07, south at borings EB07, EB40, EB41, and EB42, and east at EB13 where PCBs were either not detected or were below the recreational RBC of 0.52 mg/Kg. PCB concentrations also generally diminished northwards; however, remain above the recreational RBC in some sampled locations up to the N. Crawford Street intersection and to the north shoulder of N Alta Avenue.

South of Building in City Parking Area. PCB concentrations were generally lower and less frequent in borings south of the PIW building relative to those to the west and north of the building. Of the 57 samples collected from the south side the building, 12 contained PCBs above the laboratory MRL (21 percent detection rate) and eight (8) contained PCBs above the RBC of 0.52 mg/Kg for the recreational receptor. PCB concentrations are greater within the narrow grass strip along the south wall of the building (DU01) and beneath the northeastern half of the adjacent city parking lot. Only two samples, EB31-0.5 and EB31-1.5, detected A-1254 in addition to A-1260, the only other Aroclor detected.

All borings in the southwest end of the parking lot were either non-detect or below the recreational RBC of 0.52 mg/Kg, consistent with previous findings at City borings NBRAD5, NBRAD7 and NBRAD8.

PIW Building Interior. ENW advanced four (4) soil borings inside the PIW facility in the vicinities of the machine shop and two (2) equipment pits along the west interior portion of the building. Soil borings EB42, EB43, EB46 and EB47 reported PCBs in five of 12 samples analyzed. PCBs ranged in concentrations from 0.12 mg/Kg to 4.8 mg/Kg with the highest concentration reported at boring EB46 at the 0 to 0.5-foot sample depth. Of particular significance, the PCB concentration in EB46 of 4.8 mg/Kg contrasts to the PCB concentration of 63 mg/Kg in EB44 just outside the west wall in the N Bradford Street ROW (Figure 4A), having a relative percent difference (RPD) of over 170%. Of even greater significance, the PCB concentration in EB47 of 0.12 mg/Kg is in stark contrast to the PCB concentration of 130 mg/Kg in EB45 located just outside the west wall also in the N Bradford Street ROW (Figure 4A), having a 200% RPD.

6.0 Conclusions and Recommendations

The data from this FSSI have expanded and clarified the understanding of soil impacts in areas adjacent to the PIW property. The data from this FSSI supports the following conclusions:

- The highest PCBs concentrations coincide with topographic low points along the north and west sides of the building that are subject to storm water ponding during heavy rain events and periodic flooding. Given their relatively high organic partition coefficients, PCBs may have attached to sediments carried by stormwater during heavy rains and/or periodic floods and settled in these low spots after the waters retreated. Therefore, surface runoff appears to be a significant migration pathway at the site and surrounding area. Surface runoff could also explain the broad distribution of PCBs in shallow soil, and the presence of accumulation in the topographically lower portions of the site.
- PCBs are largely within Undocumented Fill and subgrade material beneath the N Alta roadway, which comprises the upper 1.5 to over 3 feet beneath the area exterior to the PIW building investigated.
- While there are many similarities in the composition of PCBs detected at the site and adjacent areas, PCB congener and PCB Aroclor data reveal some rather subtle to distinct differences. A correlation of congener arrays for the six samples where PCB congener analysis was requested suggests that samples EB17 (north side of building), EB32 and EB37 (south adjacent city parking lot) may be dissimilar enough to suggest they come from a different source. A-1254 was detected in addition to A-1260 in only 11 of 142 samples (8% frequency) analyzed, including one sample on the west end of the building, a grouping of nine samples on the north side of the building, and one sample in the adjacent city parking lot on the south side of the building. Furthermore, of the two Aroclors detected, only A-1254 is listed as being used in cutting (machine) oils. The listed historical use of A-1254 in machine oils, low frequency of A-1254 detections in surface soil at the site, no detection of A-1254 in soils collected within the building footprint (plus little to no A-1260 detected), and PIW's consistent history of machining work are additional evidence to suggest that PCB impacts at the site are not related to PIW's historical site activities.

Based on the findings of the FSI, ENW recommends the following potential next steps:

- For the reasons explained above, no further investigation of the lateral and vertical extents of PCBs in soil adjacent to the PIW property is considered warranted at this time. The primary transport mechanism for PCBs in shallow soil appears to be overland transport during storm events. The greatest concentrations of PCBs in shallow soil occur in areas of topographic relief adjacent to the site, where storm water from the entire drainage basin pools during larger storm events. The results of this investigation suggest that PCBs are largely within Undocumented Fill and subgrade material beneath the N Alta roadway.
- Based on the Aroclors detected in the area west of the PIW facility, the source of the PCBs is not likely related to former machine shop activities. Therefore, further investigation into the source of PCBs impacts in the area is required.

7.0 Limitations

The scope of this report is limited to observations made during on-site work; interviews with knowledgeable sources; and review of readily available published and unpublished reports and literature. As a result, these conclusions are based on information supplied by others as well as interpretations by qualified parties.

The focus of the site closure does not extend to the presence of the following conditions unless they were the express concerns of contacted personnel, report and literature authors or the work scope.

- Naturally occurring toxic or hazardous substances in the subsurface soils, geology, and water,
- Toxicity of substances common in current habitable environments, such as stored chemicals, products, building materials and consumables,
- Contaminants or contaminant concentrations that are not a concern now but may be under future regulatory standards,
- Unpredictable events that may occur after ENW's site work, such as illegal dumping or accidental spillage.

There is no practice that is thorough enough to absolutely identify the presence of all hazardous substances that may be present at a given site. ENW's investigation has been focused only on the potential for contamination that was specifically identified in the Scope of Work. Therefore, if contamination other than that specifically mentioned is present and not identified as part of a limited Scope of Work, ENW's environmental investigation shall not be construed as a guaranteed absence of such materials. ENW have endeavored to collect representative analytical samples for the locations and depths indicated in this report. However, no sampling program can thoroughly identify all variations in contaminant distribution.

We have performed our services for this project in accordance with our agreement and understanding with the client. This document and the information contained herein have been prepared solely for the use of the client.

ENW performed this study under a limited scope of services per our agreement. It is possible, despite the use of reasonable care and interpretation, that ENW may have failed to identify regulation violations related to the presence of hazardous substances other than those specifically mentioned at the closure site. ENW assumes no responsibility for conditions that we did not specifically evaluate or conditions that were not generally recognized as environmentally unacceptable at the time this report was prepared.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		52_15	52_16	52_17	52_18	52_19	52_20	52_21	52_22	52_23	NBRAD1	NBRAD2	NBRAD3	NBRAD4	NBRAD5	NBRAD6	NBRAD7	NBRAD8	B1	
Date Sampled		1/6/2011	1/6/2011	1/6/2011	1/6/2011	1/6/2011	1/6/2011	1/6/2011	1/6/2011	1/6/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011
Depth Sampled (feet)		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	0.5-1
Sample By		City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland
Location		Five-point composite between RR track and cathedral park parking lot	Five-point composite between RR track and PIW	Five-point composite between RR track and PIW	Five-point composite between RR track and 6600 N Baltimore Ave	Five-point composite between RR track and 6600 N Baltimore Ave	Five-point composite between RR track and N Alta Ave	Two-point composite from potholes Northeast of CB ANE911	Discrete sample from pothole north-northwest of CB ANE911	Five-point composite between RR track and Cathedral Park	West of railroad tracks in N. Bradford ROW and City parking lot, north of NBRAD2	West of railroad tracks in N. Bradford ROW and City parking lot, south of NBRAD1	East of railroad tracks in N. Bradford ROW and west of City parking lot and NBRAD1	East of railroad tracks in N. Bradford ROW and west of City parking lot and NBRAD2	West end of landscape strip boring southern margin of City parking lot, east of NBRAD4	Landscape strip boring west margin of City parking lot, north of NBRAD5	West end of landscape strip boring southern margin of City parking lot, east of NBRAD5	West end of landscape strip boring southern margin of City parking lot, east of NBRAD6	In northeast corner of City parking lot	
Constituent of Interest		Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																				
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																				
Polynuclear Aromatic Hydrocarbons (PAHs)																				
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenzo[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																				
Aroclor 1016	C, nv	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1232	C, nv	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1242	C, nv	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1248	C, nv	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	<0.01 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1254	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.1 (ND)	<0.1 (ND)	<1 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1260	C, nv	21.7	11.9	10.7	0.606	1.17	0.846	1.94	1.24	7.12	---	---	---	---	---	---	---	---	---	---
Aroclor 1262	nc, nv	<1 (ND)	<0.01 (ND)	<1 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.1 (ND)	<0.1 (ND)	<1 (ND)	---	---	---	---	---	---	---	---	---	---
Aroclor 1268	nc, nv	<1 (ND)	<0.01 (ND)	<1 (ND)	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	<0.1 (ND)	<0.1 (ND)	<1 (ND)	---	---	---	---	---	---	---	---	---	---
Total PCBs (total as Aroclors)	C, nv	21.7	11.9	10.7	0.606	1.17	0.846	1.94	1.24	7.12	1.22	0.147	2.5	0.504	0.265	1.08	0.476	0.423	1.05	0.591
Total Petroleum Hydrocarbons																				
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		B2			B3		B4		B5		GS01	GS02	GS03	DU01	DU02	DU03	DU04	DU05	DU06	DU07	DU08
Date Sampled		9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/12/2012	9/12/2012	9/12/2012	5/18/2022	5/18/2022	5/18/2022	5/18/2022	5/18/2022	5/18/2022	5/18/2022	5/18/2022
Depth Sampled (feet)		0.5-1	1-3	3-5	0.5-1	1-5	0.5-1	1-4	0.5-1	1-5	6	6	5.5	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Sample By		City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	City of Portland	ENW	ENW	ENW	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)
Location		In northeast corner of City parking lot, west of boring B1			In northeast corner of City parking lot, west of boring B2		In central portion of City parking lot		In central portion of City parking lot, west of boring B4		Assessment sample, south end of HOT	Assessment sample, below center of tank	Assessment sample, north end of tank	NE of railroad ROW, south of St Johns Bridge	East of DU01 and railroad ROW, south of St. Johns Bridge	Area NE of railroad ROW under the St. Johns Bridge	Southern margin of adjacent City parking area	Western margin of adjacent City parking area	NW of railroad ROW, south of St Johns Bridge	West of DU06 and railroad ROW, south of St. Johns Bridge	Area NW of railroad ROW under the St. Johns Bridge
Constituent of Interest		Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																					
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																					
Polynuclear Aromatic Hydrocarbons (PAHs)																					
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benz[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenz[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																					
Aroclor 1016	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1221	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1232	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1242	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1248	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1254	nc, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1260	C, nv	---	---	---	---	---	---	---	---	---	---	---	<0.0122 (ND)	---	---	---	---	---	---	---	---
Aroclor 1262	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Aroclor 1268	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total PCBs (total as Aroclors)	C, nv	0.465	0.699	<0.010 (ND)	0.286	0.704	<0.010 (ND)	<0.010 (ND)	<0.010 (ND)	<0.010 (ND)	---	---	<0.0122 (ND)	0.101 J	0.0631 J	0.156 J	0.357	0.452	0.0642 J	0.0374 J	0.295 J
Total Petroleum Hydrocarbons																					
GRO	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	<240 (ND)	6550	22300	1060	<25 (ND)	<25 (ND)	<25 (ND)	<25 (ND)	<25 (ND)	<25 (ND)	<25 (ND)
RRO	nc, nv	---	---	---	---	---	---	---	---	---	1250	<4770 (ND)	<5000 (ND)	<51.1 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		COMP09	DU10	DU11	DU12	DU01	DU01 REP01	DU01 REP02	EB01			EB02			EB03			EB04		
Date Sampled		5/18/2022	5/18/2022	5/18/2022	5/18/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022
Depth Sampled (feet)		0-2	0-2	0-2	0-2	0.2	0.2	0.2	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	MFA (ODEQ)	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Area NW of railroad ROW and adjacent City parking area	Area west of COMP09 in Cathedral Park	Area north of DU08 in Cathedral Park	Area north of DU11 in Cathedral Park	South Side of Building - Parks Dept. Parking Lot			West Side of Building - Railroad ROW			West Side of Building - Railroad ROW			West Side of Building - Railroad ROW			West Side of Building - Railroad ROW		
Constituent of Interest		Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																				
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																				
Polynuclear Aromatic Hydrocarbons (PAHs)																				
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benz[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenz[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																				
Aroclor 1016	C, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.025	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	---	---	---	---	4	1.4	3.7	0.37	<0.02 (ND)	<0.02 (ND)	48	0.035	0.15	30	0.17	0.3	77	0.25	0.093
Aroclor 1262	nc, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	---	---	---	---	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	2.67 J	3.45 J	0.0887 J	0.114 J	4	1.4	3.7	0.37	<0.02 (ND)	<0.02 (ND)	48	0.035	0.15	30	0.195	0.3	77	0.25	0.093
Total Petroleum Hydrocarbons																				
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	<25 (ND)	<25 (ND)	<25 (ND)	<25 (ND)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB05			EB06			EB07	EB08			EB09			EB10			EB11		
Date Sampled		11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/9/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		West Side of Building - Railroad ROW			West Side of Building - Railroad ROW			North Side of Building - City of Portland ROW	North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																				
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																				
Polynuclear Aromatic Hydrocarbons (PAHs)																				
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benz[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenz[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																				
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.28	<0.02 (ND)	0.037	4.6	<0.02 (ND)	0.94
Aroclor 1260	C, nv	0.23	<0.02 (ND)	<0.02 (ND)	0.14	<0.02 (ND)	<0.02 (ND)	0.12	0.061	<0.02 (ND)	<0.02 (ND)	20	0.44	0.055	0.87	<0.02 (ND)	0.13	15	0.02	3.1
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.2 (ND)
Total PCBs (total as Aroclors)	C, nv	0.23	<0.02 (ND)	<0.02 (ND)	0.14	<0.02 (ND)	<0.02 (ND)	0.12	0.061	<0.02 (ND)	<0.02 (ND)	20	0.44	0.055	1.15	<0.02 (ND)	0.167	19.6	<0.02 (ND)	4.04
Total Petroleum Hydrocarbons																				
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB12			EB13			EB14			EB15			EB16			EB17		
Date Sampled		11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																			
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																			
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenzo[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	0.05	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.14	<0.02 (ND)	0.17	0.58	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	0.41	<0.02 (ND)	<0.02 (ND)	0.054	<0.02 (ND)	<0.02 (ND)	0.56	<0.02 (ND)	0.8	4.8	0.065	0.069	<0.02 (ND)	<0.02 (ND)	0.043	0.68	<0.02 (ND)	0.027
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	0.46	<0.02 (ND)	<0.02 (ND)	0.054	<0.02 (ND)	<0.02 (ND)	0.7	<0.02 (ND)	0.97	5.38	0.065	0.069	<0.02 (ND)	<0.02 (ND)	0.043	0.68	<0.02 (ND)	0.027
Total Petroleum Hydrocarbons																			
GRO	nc, V	---	---	---	---	---	<5 (ND)	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	<50 (ND)	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	<250 (ND)	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB18			EB19			EB20			EB21			EB22			EB23		
Date Sampled		11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																			
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																			
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenzo[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	0.024	<0.02 (ND)	0.88	1.1	0.027	0.73	2	0.032	<0.02 (ND)	0.75	<0.02 (ND)	0.39	0.038	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	0.024	<0.02 (ND)	0.88	1.1	0.027	0.73	2.0	0.032	<0.02 (ND)	0.75	<0.02 (ND)	0.39	0.038	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total Petroleum Hydrocarbons																			
GRO	nc, V	---	---	---	---	---	---	---	---	<5 (ND)	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	<50 (ND)	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	---	---	---	<250 (ND)	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB24			EB25			EB26			EB27			EB28			EB29		
Date Sampled		12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																			
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																			
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenzo[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	0.1	<0.02 (ND)	<0.02 (ND)	0.098	<0.02 (ND)	<0.02 (ND)	0.048	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	0.1	<0.02 (ND)	<0.02 (ND)	0.098	<0.02 (ND)	<0.02 (ND)	0.048	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total Petroleum Hydrocarbons																			
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB30			EB31			EB32			EB33			EB34			EB35		
Date Sampled		12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/14/2022	12/14/2022	12/14/2022	12/13/2022	12/13/2022	12/13/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																			
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.03 (ND)	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.1 (ND)	---	---
Semi-Volatile Organic Constituents (SVOCs)																			
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.22	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.16	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.26	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05 (ND)	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.52	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.46	---	---
Benz[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.29	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.17	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.41	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	---	---
Dibenz[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.064	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.29	---	---
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.12	0.091	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.44	0.97	<0.02 (ND)	0.033	<0.02 (ND)	<0.02 (ND)	1.5	<0.02 (ND)	<0.02 (ND)	0.13	<0.02 (ND)	<0.02 (ND)	0.75	0.052	0.08
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.56	1.061	<0.02 (ND)	0.033	<0.02 (ND)	<0.02 (ND)	1.5	<0.02 (ND)	<0.02 (ND)	0.13	<0.02 (ND)	<0.02 (ND)	0.75	0.052	0.08
Total Petroleum Hydrocarbons																			
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	<5 (ND)	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	450 x	<50 (ND)	---
RRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<250 (ND)	<250 (ND)	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB36			EB37			EB38			EB39			EB40			EB41		
Date Sampled		12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	12/14/2022	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			South Side of Building - Parks Dept. Parking Lot			North Side of Building - City of Portland ROW			North Side of Building - City of Portland ROW		
Constituent of Interest	Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																			
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																			
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenzo[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	C, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	6.7	0.19	<0.02 (ND)	0.45	0.36	<0.02 (ND)	2.3	<0.02 (ND)	<0.02 (ND)	0.39	<0.02 (ND)	<0.02 (ND)	0.024	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1262	nc, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<1 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	6.7	0.19	<0.02 (ND)	0.45	0.36	<0.02 (ND)	2.3	<0.02 (ND)	<0.02 (ND)	0.39	<0.02 (ND)	<0.02 (ND)	0.024	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total Petroleum Hydrocarbons																			
GRO	nc, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RRO	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

ND = not detected at or above laboratory method reporting limits
— = not analyzed or not applicable.
NE = not established.
mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		EB42			EB43			EB44			EB45			EB46			EB47			DU01 dup	DU01 REP01 dup
Date Sampled		1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	1/23/2023	11/9/2022	11/9/2022
Depth Sampled (feet)		0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.5	1.5	2.5	0.2	0.2
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Inside PIW Building 12' south of N. Wall ; 68' east of W. Wall (Former machine shop)			Inside PIW Building 10' south of N. Wall; 26' east of W. Wall (Former machine shop)			West Side of Building - Railroad ROW			West Side of Building - Railroad ROW			Inside PIW Building 35' south of N Wall; 10' east of W Wall (former machine shop)			Inside PIW Building 10' north of S Wall; 18' east of W Wall (equipment pit)			Laboratory duplicate of DU01	Laboratory duplicate of DU01-REP01
Constituent of Interest		Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Volatile Organic Constituents																					
Benzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iso-Propylbenzene (cumene)	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Semi-Volatile Organic Constituents (SVOCs)																					
Polynuclear Aromatic Hydrocarbons (PAHs)																					
Naphthalene	C, V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	nc, v	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benz[a]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dibenz[a,h]anthracene	C, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																					
Aroclor 1016	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1221	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1232	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1242	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1248	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1260	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.52	<0.02 (ND)	<0.02 (ND)	63	2.3	0.16	130	1.2	0.91	4.8	0.19	0.26	0.12	<0.02 (ND)	<0.02 (ND)	5.4	1.5
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)
Total PCBs (total as Aroclors)	C, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.52	<0.02 (ND)	<0.02 (ND)	63	2.3	0.16	130	1.2	0.91	4.8	0.19	0.26	0.12	<0.02 (ND)	<0.02 (ND)	5.4	1.5
Total Petroleum Hydrocarbons																					
GRO	nc, v	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	---	---	---	---	---	---	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	<20 (NP)	---	---
DRO	nc, nv	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	---	---	---	---	---	---	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	<50 (NP)	---	---
RRO	nc, nv	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	---	---	---	---	---	---	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	<250 (NP)	---	---

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 1 - Cumulative Summary of Analytical Data, Surface Soil

Location ID		DU01 REP02 dup	FD01	FD02	FD03	FD04	FD05	FD06	FD07	Maximum Detected Soil Concentration (PIW sampling, not including QC samples)	Maximum Detected Surface Soil Concentration (prior City of Portland and ODEQ Investigations)	ODEQ Risk-Based Concentration (Soil, Occupational Dermal Contact)	ODEQ Risk-Based Concentration (Soil, Construction Worker Dermal Contact)	ODEQ Risk-Based Concentration (soil, Excavation Worker Dermal Contact)	ODEQ Risk-Based Concentration (soil,Recreational User, Dermal Contact, as calculated by ODEQ)	
Date Sampled		11/9/2022	11/9/2022	11/10/2022	11/11/2022	12/13/2022	12/13/2022	12/14/2022	1/23/2023							
Depth Sampled (feet)		0.2	0.5	1.5	2.5	1.5	1.5	1.5	1.5							
Sample By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW							
Location		Laboratory duplicate of DU01-REP02	Field duplicate (B04-0.5)	Field duplicate (B20-1.5)	Field duplicate (B14-2.5)	Field duplicate (B28-1.5)	Field duplicate (B29-1.5)	Field duplicate (B38-1.5)	Field duplicate (B43-1.5)							
Constituent of Interest		Note	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)						
Volatile Organic Constituents																
Benzene	C, V	---	---	---	---	---	---	---	---	<0.03 (ND)	NE	37	380	11000	20	
EDB (1,2-dibromoethane)	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	0.73	9	250	0.44	
EDC (1,2-dichloroethane)	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	16	200	5600	9.8	
Ethylbenzene	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	150	1700	49000	88	
MTBE (methyl t-butyl ether)	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	1100	12000	320000	610	
Naphthalene	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	23	580	16000	20	
iso-Propylbenzene (cumene)	nc, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	57000	27000	750000	5900	
Toluene	nc, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	88000	28000	770000	9700	
1,2,4-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	6900	2900	81000	190	
1,3,5-Trimethylbenzene	nc, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	6900	2900	81000	1300	
Xylenes	nc, V	---	---	---	---	---	---	---	---	<0.1 (ND)	NE	25000	20000	560000	2400	
Semi-Volatile Organic Constituents (SVOCs)																
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	C, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	23	580	16000	20	
2-Methylnaphthalene		---	---	---	---	---	---	---	---	<0.05 (ND)	NE	---	---	---	---	
Acenaphthylene		---	---	---	---	---	---	---	---	<0.05 (ND)	NE	---	---	---	---	
Acenaphthene	nc, V	---	---	---	---	---	---	---	---	0.22	NE	70000	21000	590000	7800	
Fluorene	nc, V	---	---	---	---	---	---	---	---	0.16	NE	47000	14000	390000	5200	
Phenanthrene		---	---	---	---	---	---	---	---	0.26	NE	---	---	---	---	
Anthracene	nc, V	---	---	---	---	---	---	---	---	<0.05 (ND)	NE	350000	110000	2900000	39000	
Fluoranthene	nc, nv	---	---	---	---	---	---	---	---	0.52	NE	30000	10000	280000	4000	
Pyrene	c, nv	---	---	---	---	---	---	---	---	0.46	NE	23000	7500	210000	3000	
Benzo[a]anthracene	c, nv	---	---	---	---	---	---	---	---	0.29	NE	21	170	4800	1.3	
Chrysene	c, nv	---	---	---	---	---	---	---	---	0.3	NE	2100	17000	490000	130	
Benzo[b]fluoranthene	c, nv	---	---	---	---	---	---	---	---	0.5	NE	21	170	4900	1.3	
Benzo[k]fluoranthene	c, nv	---	---	---	---	---	---	---	---	0.17	NE	210	1700	49000	13	
Benzo[a]pyrene	c, nv	---	---	---	---	---	---	---	---	0.41	NE	2.1	17	490	0.13	
Indeno[1,2,3-cd]pyrene	c, nv	---	---	---	---	---	---	---	---	0.3	NE	21	170	4900	1.3	
Dibenz[a,h]anthracene	c, nv	---	---	---	---	---	---	---	---	0.064	NE	2.1	17	490	0.13	
Benzo[g,h,i]perylene	nc, nv	---	---	---	---	---	---	---	---	0.29	NE	---	---	---	---	
Polychlorinated Biphenyls (PCBs)																
Aroclor 1016	c, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.0122 (ND)	---	---	---	---	
Aroclor 1221	c, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.02 (ND)	---	---	---	---	
Aroclor 1232	c, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.0122 (ND)	---	---	---	---	
Aroclor 1242	c, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.0122 (ND)	---	---	---	---	
Aroclor 1248	c, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<0.0122 (ND)	---	---	---	---	
Aroclor 1254	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	0.075	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	4.6	<1 (ND)	---	---	---	---	
Aroclor 1260	c, nv	4.8	130	<0.02 (ND)	0.32	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	130	21.7	---	---	---	---	
Aroclor 1262	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<1 (ND)	---	---	---	---	
Aroclor 1268	nc, nv	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<2 (ND)	<1 (ND)	---	---	---	---	
Total PCBs (total as Aroclors)	c, nv	4.8	130	<0.02 (ND)	0.395	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	<0.02 (ND)	130	21.7	0.59	4.9	140	0.52	
Total Petroleum Hydrocarbons																
GRO	nc, V	---	---	---	---	---	---	---	---	20	NE	20000	9700	>Max	---	
DRO	nc, nv	---	---	---	---	---	---	---	---	450 x	NE	14000	4600	>Max	---	
RRO	nc, nv	---	---	---	---	---	---	---	---	<250 (ND)	NE	36000	11000	>Max	---	

Notes:

ND = not detected at or above laboratory method reporting limits

— = not analyzed or not applicable.

NE = not established.

mk/Kg = milligrams per kilogram

Bolded/Shaded concentrations exceed ODEQ RBCs (based on recreational, occupational, construction and/or excavation worker potential exposure and soil ingestion, dermal contact and inhalation pathway)

J = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

Table 2. Summary of Analytical Data - PCB Congeners

Location ID	B04	B17	B20	B32	B36	B37	Maximum Soil Concentration (remaining soil)
Sample ID	B04-0.5	B17-0.5	B20-0.5	B32-0.5	B36-0.5	B37-1.5	
Date Sampled	11/9/2022	11/10/2022	11/10/2022	12/14/2022	12/14/2022	12/14/2022	
Depth Sampled (feet)	0.5	0.5	0.5	0.5	0.5	1.5	
Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	
Location	West Side of Building - Railroad ROW	North Side of Building - City of Portland ROW	North Side of Building - City of Portland ROW	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	
Constituent of Interest	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)
Semivolatile Organic Constituents							
Polychlorinated biphenyls (Total PCBs)							
PCB-1	162	1.2 J	2.05	9.59	31.2	23.2	162
PCB-2	63.7	2.36	0.95 J	4.78	11.1	25.8	63.7
PCB-3	163	2.37	2.27	15.5	59.9	35.5	163
PCB-4	609	<0.0994 (ND)	2.95	91.7	35	29.9	609
PCB-5	<2.97 (ND)	<0.59 (ND)	<0.982 (ND)	12.4	16.7	4.89	16.7
PCB-6	294	<0.588 (ND)	1.24 J	27.2	33.9	17.9	294
PCB-7	<2.96 (ND)	<0.594 (ND)	<0.989 (ND)	5.79	10.1	7.71	10.1
PCB-8	620	1.27 J	6.31	99.9	142	68.2	620
PCB-9	90.6	<0.592 (ND)	<0.986 (ND)	6.55	8.8	4.88	90.6
PCB-10	<2.8 (ND)	<0.527 (ND)	<0.878 (ND)	10.2	3.79	2.48	10.2
PCB-11	138	3.01	4.94	11	9.85	40.9	138
PCB-12	166	<0.618 (ND)	<1.03 (ND)	16	22.2	16.2	166
PCB-13	111	<0.619 (ND)	1.21 J	14.9	13.2	12.6	111
PCB-14	<3.03 (ND)	<0.612 (ND)	<1.02 (ND)	<1.38 (ND)	<1.03 (ND)	<0.821 (ND)	<3.03 (ND)
PCB-15	2220	2.07	10.7	350	242	114	2220
PCB-16	534	<0.727 (ND)	2.73	291	58.6	32.5	534
PCB-17	745	<0.798 (ND)	2.62	355	55.6	46.3	745
PCB-18	1800	<0.873 (ND)	7	966	134	95.7	1800
PCB-19	456	<0.912 (ND)	1.05 J	103	17.3	13.4	456
PCB-20	1390 C	2.21 C	7.44 C	293 C	206 C	137 C	1390 C
PCB-21	---	---	---	---	---	---	---
PCB-22	916	<0.997 (ND)	4.51	364	109	80.1	916
PCB-23	24.1	<1.08 (ND)	<0.596 (ND)	<1.75 (ND)	<1.41 (ND)	<1.3 (ND)	24.1
PCB-24	146	<0.578 (ND)	<0.432 (ND)	51.4	11.7	6.26	146
PCB-25	338	<1.05 (ND)	1.14 J	65.7	33.4	20	338
PCB-26	601	<1 (ND)	2.3	190	78.6	38.2	601
PCB-27	129	<0.592 (ND)	<0.442 (ND)	46.9	11.2	6.65	129
PCB-28	3170	2.76	13.7	1100	321	183	3170
PCB-29	81.9	<0.964 (ND)	<0.533 (ND)	9.07	3.11	2.2	81.9
PCB-30	<1.26 (ND)	<0.569 (ND)	<0.425 (ND)	<1.25 (ND)	<0.953 (ND)	<0.813 (ND)	<1.26 (ND)
PCB-31	2150	3.45	13.2	636	431	229	2150
PCB-32	764	<0.685 (ND)	3.01	291	65.5	44.3	764
PCB-33	---	---	---	---	---	---	---
PCB-34	32.3	<1.28 (ND)	<0.711 (ND)	6.02	<1.54 (ND)	<1.43 (ND)	32.3
PCB-35	261	<1.11 (ND)	<0.615 (ND)	16.8	17.4	17	261
PCB-36	33.6	<1 (ND)	<0.553 (ND)	<1.85 (ND)	1.48	<1.37 (ND)	33.6
PCB-37	2680	2.67	11.7	420	241	195	2680
PCB-38	143	<1.02 (ND)	<0.562 (ND)	6.81	10.2	9.05	143
PCB-39	34.3	<1.05 (ND)	<0.58 (ND)	<1.83 (ND)	<1.47 (ND)	<2.8 (ND)	34.3
PCB-40	1620	<0.429 (ND)	3.05	146	256	82.1	1620
PCB-41	16500 C	6.27 C	51.8 C	755 C	2050 C	549 C	16500 C
PCB-42	4280 C	<0.301 (ND) C	8.76 C	307 C	565 C	147 C	4280 C
PCB-43	12800 C	3.66 C	30.1 C	700 C	2980 C	782 C	12800 C
PCB-44	14200	<0.391 (ND)	34.4	763	4530	1170	14200
PCB-45	2300	<0.371 (ND)	3.35	165	232	66.6	2300
PCB-46	697	<0.406 (ND)	1.31 J	65.4	64.1	27.3	697
PCB-47	3340	1.63 J	11.8	254	669	176	3340
PCB-48	4650 C	<0.251 (ND) C	3.77 C	213 C	193 C	59.3 C	4650 C
PCB-49	---	---	---	---	---	---	0
PCB-50	65.4	<0.335 (ND)	<0.36 (ND)	3.65 J	1.99 J	<1.19 (ND)	65.4
PCB-51	508	<0.321 (ND)	1.22 J	47.2	49.5	19.1	508
PCB-52	136000 C	29.6 C	348 C	979 C	23300 C	2980 C	136000 C
PCB-53	3600	<0.325 (ND)	4.35	144	415	120	3600
PCB-54	128	<0.287 (ND)	<0.309 (ND)	3.12 J	7.3	2.01	128
PCB-55	977	1.09 J	6.85	24.8	104	59.4	977
PCB-56	12000 C	4.48 C	43 C	810 C	1740 C	613 C	12000 C
PCB-57	258	<0.249 (ND)	0.88 J	5.3	15.3	4.46	258
PCB-58	<0.662 (ND)	<0.227 (ND)	<0.244 (ND)	<1.5 (ND)	<1.46 (ND)	<0.918 (ND)	<1.5 (ND)
PCB-59	---	---	---	---	---	---	---
PCB-60	---	---	---	---	---	---	---
PCB-61	20000 C	20.4 C	117 C	887 C	8280 C	1930 C	20000 C
PCB-62	<0.679 (ND)	<0.249 (ND)	<0.268 (ND)	<1.51 (ND)	<1.47 (ND)	<0.924 (ND)	<1.51 (ND)
PCB-63	271	<0.244 (ND)	2.27	32.6	73.9	26.8	271
PCB-64	---	---	---	---	---	---	---
PCB-65	<0.683 (ND)	<0.248 (ND)	<0.267 (ND)	<1.48 (ND)	<1.45 (ND)	<0.908 (ND)	<1.48 (ND)
PCB-66	75400 C	86.9 C	439 C	876 C	10700 C	1300 C	75400 C
PCB-67	948	<0.251 (ND)	1.57 J	32.3	90.9	16	948
PCB-68	<0.616 (ND)	<0.231 (ND)	<0.249 (ND)	<1.4 (ND)	<1.36 (ND)	7.07	7.07
PCB-69	---	---	---	---	---	---	---
PCB-70	---	---	---	---	---	---	---
PCB-71	---	---	---	---	---	---	---
PCB-72	---	---	---	---	---	---	---
PCB-73	<0.688 (ND)	<0.228 (ND)	<0.246 (ND)	<1.48 (ND)	<1.44 (ND)	<0.903 (ND)	<1.48 (ND)
PCB-74	5620	2.99	21.9	436	1490	454	5620
PCB-75	---	---	---	---	---	---	---
PCB-76	---	---	---	---	---	---	---
PCB-77	25100	25.9	181	101	856	267	25100
PCB-78	78	<0.825 (ND)	<0.791 (ND)	2.97 J	72.6	26.7	78
PCB-79	<2.33 (ND)	<0.755 (ND)	<0.724 (ND)	7.28	241	77.3	241
PCB-80	<0.557 (ND)	<0.205 (ND)	<0.221 (ND)	<1.19 (ND)	<1.16 (ND)	<0.73 (ND)	<1.19 (ND)
PCB-81	17500	13	97.3	19.3	1080	138	17500

Table 2. Summary of Analytical Data - PCB Congeners

Location ID	B04	B17	B20	B32	B36	B37	Maximum Soil Concentration (remaining soil)
Sample ID	B04-0.5	B17-0.5	B20-0.5	B32-0.5	B36-0.5	B37-1.5	
Date Sampled	11/9/2022	11/10/2022	11/10/2022	12/14/2022	12/14/2022	12/14/2022	
Depth Sampled (feet)	0.5	0.5	0.5	0.5	0.5	1.5	
Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	
Location	West Side of Building - Railroad ROW	North Side of Building - City of Portland ROW	North Side of Building - City of Portland ROW	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	
Constituent of Interest	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)
PCB-82	22000	25.6	173	138	4130	1120	22000
PCB-83	14400 C	17.5 C	142 C	47.6 C	1850 C	531 C	14400 C
PCB-84	709000 C	1220 C	7880 C	544 C	56400 C	6330 C	709000 C
PCB-85	22900 C	49.6 C	298 C	177 C	5310 C	1690 C	22900 C
PCB-86	<2.07 (ND)	<1.34 (ND)	<1.34 (ND)	<11.6 (ND)	<1.73 (ND)	<1.48 (ND)	<11.6 (ND)
PCB-87	516000 C	584 C	4390 C	414 C	38300 C	4340 C	516000 C
PCB-88	19500 C	52.3 C	236 C	123 C	3530 C	1400 C	19500 C
PCB-89	6550	<1.35 (ND)	<1.35 (ND)	25	352	57.9	6550
PCB-90	4410000 C	5920 C	45700 C	1700 C	336000 C	16000 C	4410000 C
PCB-91	---	---	---	---	---	---	---
PCB-92	---	---	---	---	---	---	---
PCB-93	<2.26 (ND)	<0.496 (ND)	<0.587 (ND)	<1.77 (ND)	<0.509 (ND)	<1.17 (ND)	<2.26 (ND)
PCB-94	1800	<0.518 (ND)	12.7	6.85	128	39.5	1800
PCB-95	2210000	4690	26600	1240	242000	14400	2210000
PCB-96	2610	<0.361 (ND)	13.9	10.9	194	50.8	2610
PCB-97	184000	173	1580	325	17400	3340	184000
PCB-98	<2.28 (ND) C	<0.486 (ND) C	<0.579 (ND) C	<1.96 (ND) C	<0.563 (ND) C	<1.29 (ND) C	<2.28 (ND)
PCB-99	102000	152	976	421	14200	4450	102000
PCB-100	513	<0.424 (ND)	3.96	3.02 J	47.1	22.1	513
PCB-101	---	---	---	---	---	---	---
PCB-102	---	---	---	---	---	---	---
PCB-103	3810	2.48	25.5	8.31	142	51.2	3810
PCB-104	61	<0.35 (ND)	<0.414 (ND)	<1.37 (ND)	<0.393 (ND)	<0.903 (ND)	61
PCB-105	204000	371	2440	314	22800	3970	204000
PCB-106	1240000 C	1790 C	13600 C	816 C	76900 C	9730 C	1240000 C
PCB-107	55300 C	73 C	648 C	49.5 C	2350 C	614 C	55300 C
PCB-108	---	---	---	---	---	---	---
PCB-109	718	<0.933 (ND)	<0.934 (ND)	<7.86 (ND)	<1.17 (ND)	<1 (ND)	718
PCB-110	2330000	6060	35800	1310	152000	17500	2330000
PCB-111	<1.3 (ND) C	<0.91 (ND) C	0.911 C	25.4 C	770 C	129 C	770
PCB-112	---	---	---	---	---	---	---
PCB-113	<1.32 (ND)	<1.04 (ND)	<1.05 (ND)	<7.88 (ND)	<1.17 (ND)	<1 (ND)	<7.88 (ND)
PCB-114	2620	<0.988 (ND)	<0.85 (ND)	32.3	472	165	2620
PCB-115	---	---	---	---	---	---	---
PCB-116	---	---	---	---	---	---	---
PCB-117	---	---	---	---	---	---	---
PCB-118	---	---	---	---	---	---	---
PCB-119	4970	10.6	63.1	17.3	623	170	4970
PCB-120	18600	62	312	6.52	1480	72.3	18600
PCB-121	<1.62 (ND)	<0.359 (ND)	<0.424 (ND)	<1.38 (ND)	<0.397 (ND)	<0.912 (ND)	<1.62 (ND)
PCB-122	11700	<0.969 (ND)	<40.3 (ND)	15	500	112	11700
PCB-123	3550	11.1	51.9	10.8	2590	210	3550
PCB-124	96400	91.3	705	61.8	3400	698	96400
PCB-125	---	---	---	---	---	---	---
PCB-126	52400	72.2	474	8.81	534	112	52400
PCB-127	783	<1.03 (ND)	<0.882 (ND)	<1.62 (ND)	<1.43 (ND)	<1.41 (ND)	783
PCB-128	1050000 C	3220 C	15100 C	358 C	53900 C	4960 C	1050000 C
PCB-129	281000	731	3790	84.6	13600	1210	281000
PCB-130	356000	1820	9020	172	19000	1880	356000
PCB-131	245000 C	712 C	3450 C	71.1 C	13700 C	897 C	245000 C
PCB-132	3050000 C	9460 C	52300 C	843 C	238000 C	13200 C	3050000 C
PCB-133	---	---	---	---	---	---	---
PCB-134	550000 C	1540 C	7890 C	162 C	35900 C	1980 C	550000 C
PCB-135	1520000	5090	24900	579	134000	6510	1520000
PCB-136	1650000	5090	23900	605	155000	6010	1650000
PCB-137	248000	<1.25 (ND)	<1.17 (ND)	67.2	10900	1310	248000
PCB-138	10000000 C	47500 C	170000 C	4330 C	642000 C	44700 C	10000000 C
PCB-139	8310000 C	41000 C	140000 C	3850 C	648000 C	42300 C	8310000 C
PCB-140	35400	<1.19 (ND)	<1.11 (ND)	<1.59 (ND)	<1.26 (ND)	<1.33 (ND)	35400
PCB-141	3730000	12400	56800	1040	240000	10200	3730000
PCB-142	<2.35 (ND)	<1.44 (ND)	<1.34 (ND)	<1.94 (ND)	<1.53 (ND)	<1.62 (ND)	<2.35 (ND)
PCB-143	---	---	---	---	---	---	---
PCB-144	921000	2560	12500	224	56900	2220	921000
PCB-145	632	<0.574 (ND)	3.94	<1.53 (ND)	21.8	9.21	632
PCB-146	1700000 C	5990 C	27000 C	532 C	104000 C	5590 C	1700000 C
PCB-147	23800	93.2	319	20.9	<1.33 (ND)	375	23800
PCB-148	<2.5 (ND)	<0.768 (ND)	<0.97 (ND)	<1.97 (ND)	<1.32 (ND)	<1.38 (ND)	<2.5 (ND)
PCB-149	---	---	---	---	---	---	---
PCB-150	9130	16.3	95.8	<1.55 (ND)	66.7	33.2	9130
PCB-151	3420000	13100	57500	1410	320000	13700	3420000
PCB-152	1610	2.41	13.8	<1.55 (ND)	59.6	20.5	1610
PCB-153	9600000	56000	168000	4970	707000	43300	9600000
PCB-154	46800	88.2	444	16.2	526	160	46800
PCB-155	141	<0.539 (ND)	<0.681 (ND)	<1.48 (ND)	<0.989 (ND)	<1.04 (ND)	141
PCB-156	990000	2160	12900	222	45200	2560	990000
PCB-157	77300	208	1160	36.8	3250	525	77300
PCB-158	1490000 C	4420 C	21000 C	401 C	81100 C	4130 C	1490000 C
PCB-159	114000	455	1690	61.5	10300	541	114000
PCB-160	---	---	---	---	---	---	---
PCB-161	---	---	---	---	---	---	---
PCB-162	---	---	---	---	---	---	---
PCB-163	---	---	---	---	---	---	---

Table 2. Summary of Analytical Data - PCB Congeners

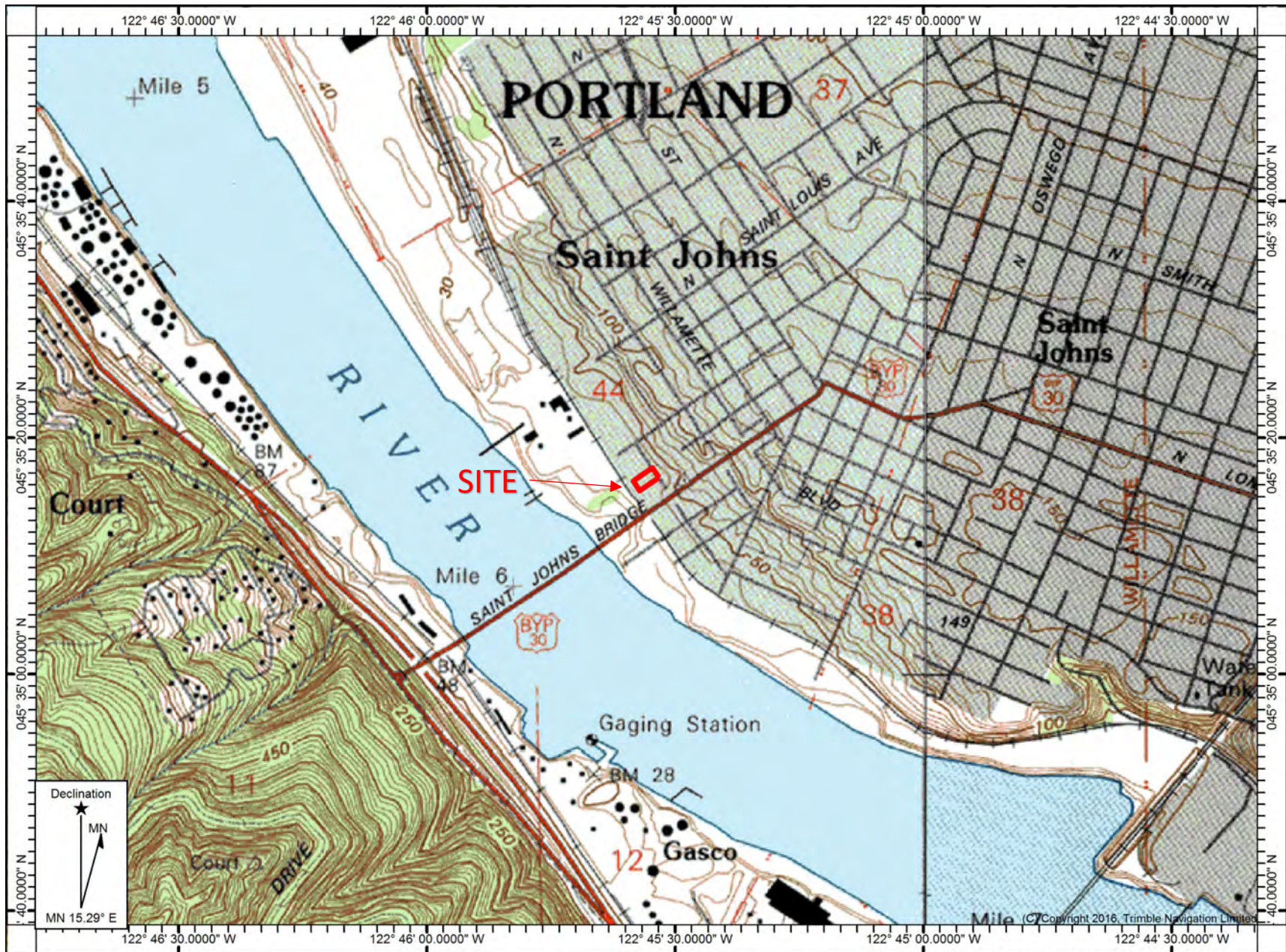
Location ID	B04	B17	B20	B32	B36	B37	Maximum Soil Concentration (remaining soil)
Sample ID	B04-0.5	B17-0.5	B20-0.5	B32-0.5	B36-0.5	B37-1.5	
Date Sampled	11/9/2022	11/10/2022	11/10/2022	12/14/2022	12/14/2022	12/14/2022	
Depth Sampled (feet)	0.5	0.5	0.5	0.5	0.5	1.5	
Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	
Location	West Side of Building - Railroad ROW	North Side of Building - City of Portland ROW	North Side of Building - City of Portland ROW	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	South Side of Building - Parks Dept. Parking Lot	
Constituent of Interest	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)	pg/g (ppt)
PCB-164	---	---	---	---	---	---	---
PCB-165	---	---	---	---	---	---	---
PCB-166	2250	7.33	15.4	3.61 J	2760	60.3	2760
PCB-167	497000	1220	6180	111	19800	1280	497000
PCB-168	<1.46 (ND)	<0.967 (ND)	<0.902 (ND)	<1.3 (ND)	<1.03 (ND)	<1.09 (ND)	<1.46 (ND)
PCB-169	9550	19.1	107	<1.51 (ND)	27.6	32.3	9550
PCB-170	5170000	23700	85500	2080	372000	17800	5170000
PCB-171	2000000	7640	32600	682	136000	5970	2000000
PCB-172	1190000	3860	17200	391	79300	3620	1190000
PCB-173	163000	481	2440	41	10500	372	163000
PCB-174	5290000	22800	86900	2760	470000	25300	5290000
PCB-175	237000	931	3890	104	15900	513	237000
PCB-176	848000	3140	13600	342	72300	2770	848000
PCB-177	3690000	14100	58900	1560	277000	13800	3690000
PCB-178	1140000	4180	18100	502	99800	4730	1140000
PCB-179	2190000	8800	35300	1080	209000	9420	2190000
PCB-180	10300000	55800	178000	6040	799000	51500	10300000
PCB-181	<1.6 (ND)	<1.14 (ND)	<1.22 (ND)	<1.67 (ND)	<1.04 (ND)	<1.14 (ND)	<1.67 (ND)
PCB-182	5540000 C	24800 C	95600 C	3160 C	500000 C	28800 C	5540000 C
PCB-183	3790000	15100	60400	1500	285000	13000	3790000
PCB-184	3350	9.71	40.9	<1.27 (ND)	51.5	13.4	3350
PCB-185	749000	2450	10200	293	61700	2560	749000
PCB-186	<1.25 (ND)	<0.793 (ND)	<0.85 (ND)	<1.36 (ND)	<0.847 (ND)	<0.93 (ND)	<1.36 (ND)
PCB-187	---	---		---	---	---	---
PCB-188	5720	13.8	<69.2 (ND)	<1.43 (ND)	62.7	20.3	5720
PCB-189	291000	801	3770	78.2	15100	670	291000
PCB-190	1430000	4640	20600	401	88800	3270	1430000
PCB-191	317000	1010	4450	93.7	19200	724	317000
PCB-192	<1.29 (ND)	<0.87 (ND)	<0.932 (ND)	<1.42 (ND)	<0.881 (ND)	<0.968 (ND)	<1.42 (ND)
PCB-193	744000	2370	10500	269	50600	2160	744000
PCB-194	2080000	7980	31700	863	144000	9130	2080000
PCB-195	1200000	4170	19400	594	110000	5580	1200000
PCB-196	2380000 C	9950 C	23900 C	939 C	194000 C	8690 C	2380000 C
PCB-197	97000	375	1420	36.6	8150	300	97000
PCB-198	61300	326	1590	32.8	6190	97.4	61300
PCB-199	1810000	7480	1670	757	167000	7350	1810000
PCB-200	282000	1050	3900	110	26800	1060	282000
PCB-201	269000	1030	4030	113	27000	1130	269000
PCB-202	300000	1210	4690	165	33900	2030	300000
PCB-203	---	---	---	---	---	---	---
PCB-204	<1.22 (ND)	<0.366 (ND)	<0.526 (ND)	<1.93 (ND)	<1.36 (ND)	<1.01 (ND)	<1.93 (ND)
PCB-205	136000	488	2070	57.7	10800	479	136000
PCB-206	329000	1250	5060	267	37900	5250	329000
PCB-207	49800	162	740	34.5	6150	543	49800
PCB-208	46600	191	747	67.5	6670	1490	46600
PCB-209	4600	193	1180	119	1770	2690	4600
PCB total (pg/g)	116688074.9	469031.02	1799808.51	67222.15	8943560.42	542457.17	116688074.9
PCB total (mg/Kg)	116.6880749	0.46903102	1.799808511	0.06722215	8.94356042	0.54245717	116.6880749

pg/g = picoigram per gram or parts per trillion (ppt).

Table 3 - Summary of Analytical Data, Equipment Blank - Rinsate Water

Sample ID		RINSATE01	RINSATE02	RINSATE03	RINSATE04	RINSATE05	RINSATE06	RINSATE07	Maximum Rinsate Water Concentration
Date Sampled		11/9/22	11/10/22	11/11/22	12/13/22	12/13/22	12/14/22	1/23/23	
Depth Sampled (feet)		---	---	---	---	---	---	---	
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	
Location		Equipment Blank from Day 1	Equipment Blank from Day 2	Equipment Blank from Day 3	Equipment Blank from Day 4	Equipment Blank from Day 5	Equipment Blank from Day 6	Equipment Blank from Day 7	
Constituent of Interest	Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Pentachlorophenol	c, nv								
Aroclor 1016		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1221		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1232		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1242		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1248		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1254		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1260		0.28	0.21	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	0.28
Aroclor 1262		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Aroclor 1268		<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)
Polychlorinated biphenyls (Total PCBs)	c, nv	0.28	0.21	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	0.28

Notes:
ug/L = micrograms per Liter or parts per billion (ppb).
<# (ND) = not detected at or above the laboratory method reporting limit shown.
c = carcinogenic
v = volatile



Name: LINNTON
Date: Jan 1, 1990

0 1000 2000
Feet

Location: 045° 35' 16.4235" N, 122° 45' 33.4626" W
Contour Interval: 10 ft

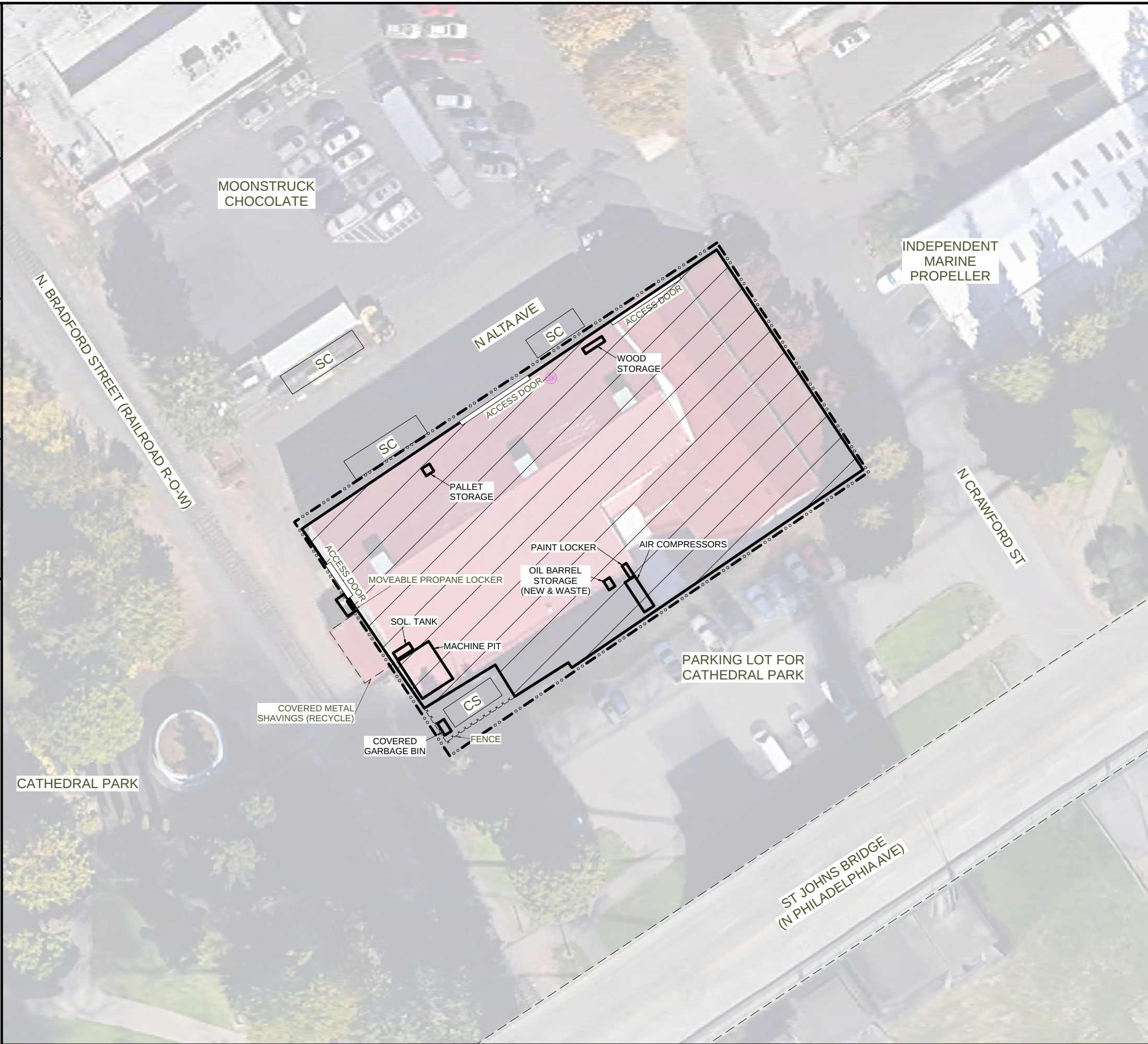


Date Drawn: 3/14/2023
CAD File Name: 1355-21001-
fig1sv_map(v01)
Drawn By: JOB
Approved By: LDG

Peninsula Iron Works – Building 2
6618 N Alta Avenue
Portland, Oregon

Site Vicinity Map

Project No.
351-12023
Figure No.
1



LEGEND:

SUBJECT PROPERTY BOUNDARY

SUBJECT BUILDING

- NOTES:
1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2018 AND ENW FIELD NOTES.

2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.

3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.

APPROXIMATE SCALE

0 40 80 FEET

CREEKSIDE ENVIRONMENTAL CONSULTING, LLC
40 SE 24TH AVENUE, SUITE A
PORTLAND, OREGON 97214
(503) 692-8118

FIGURE 2
SITE PLAN

PENISULA IRON WORKS - BUILDING 2
6618 N ALTA AVENUE
PORTLAND, OREGON



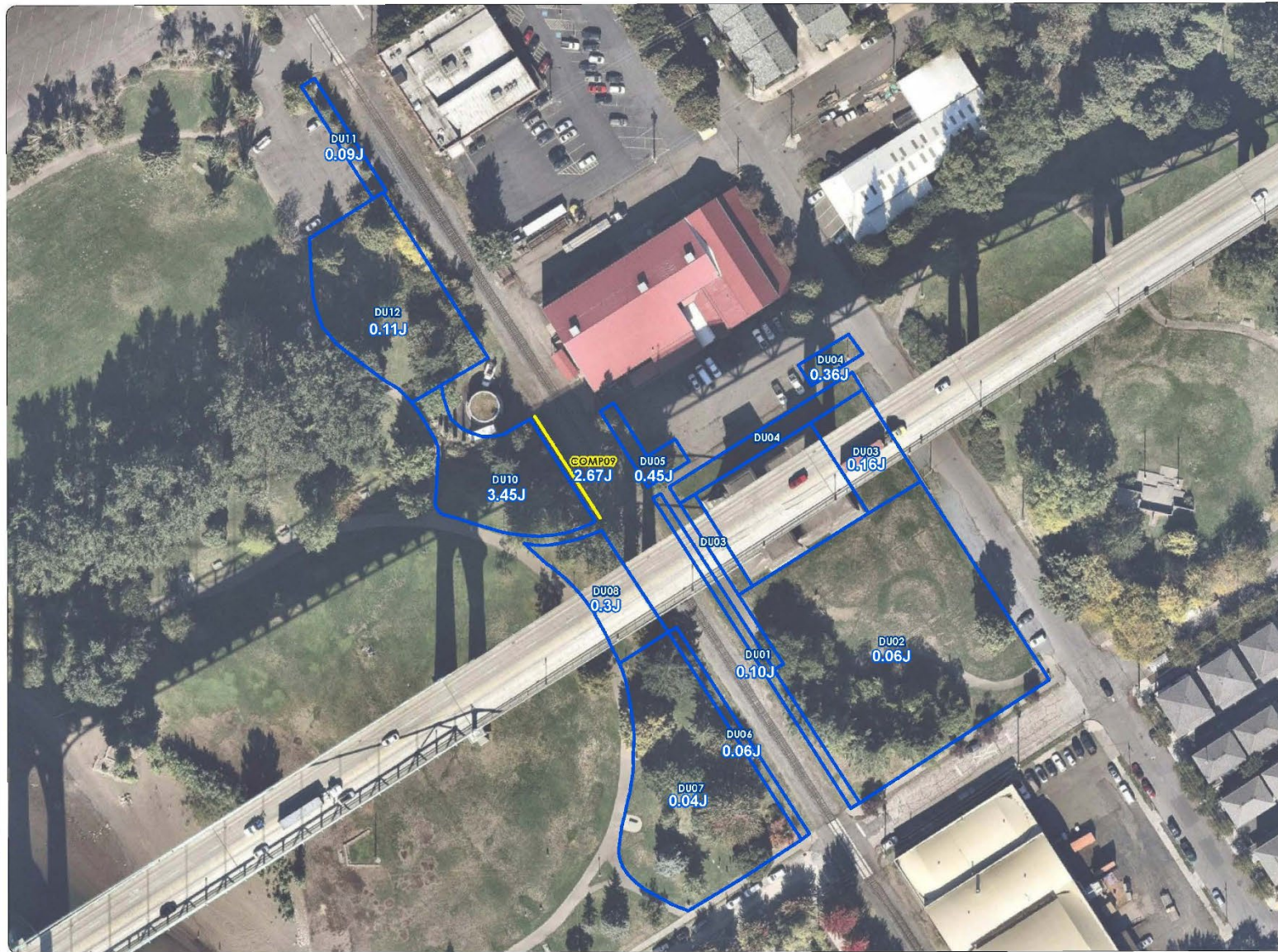
Date Drawn: 3/14/2023
CAD File Name: PCBsSamples
Drawn By: CLR
Approved By: LDG

Industrial Property
6618 N Alta Avenue
Portland, Oregon

**Previous PCB Sample
Locations Near PIW,
City of Portland**

Project No.
1355-21001
Figure No.
3A

Project No. 1355-21001
 Date Drawn: 3/14/2023
 Drawn By: CLR
 Approved By: LDG



**Figure 3-1
 Decision Unit
 Locations**

Oregon Department of
 Environmental Quality
 Cathedral Park
 Site-Specific
 Assessment Portland,
 Oregon

Legend

- Composite Sample
- Decision Unit (DU)
- 0.16J Total PCB (as Aroclors)
 rounded to the nearest
 0.01 mg/KG

0 25 50
 Feet



Source:
 Aerial photograph obtained from ESRI ArcGIS Online.

MAUL FOSTER ALONGI
 p. 971.544.2139 | www.maulfooster.com

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Date Drawn: 3/14/2023
 CAD File Name: PCB Samples
 Drawn By: CLR
 Approved By: LDG

Industrial Property
 6618 N Alta Avenue
 Portland, Oregon

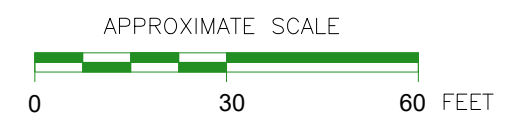
**Previous PCB Sample
 Locations Near PIW,
 ODEQ**

Project No.
 1355-21001
 Figure No.
3B

DRAWN BY: H. ROMER
CHECKED BY: E. BRUGGEMAN
APPROVED BY: L. GREEN
DRAWING NUMBER: 1355-21001(v01)
DATE: 03/22/2023



- LEGEND:
- SUBJECT PROPERTY BOUNDARY
 - SUBJECT BUILDING
 - DRAINAGE BASIN FOR CITY OUTFALL 52
 - STORM SEWER
 - STORM SEWER (PERFORATED)
 - ROOF DOWNSPOUT
 - CITY COMBINED STORM/SANITARY SYSTEM
 - STORM SYSTEM FLOW DIRECTION
 - STORM SEWER PLUG (PER CITY OF PORTLAND PERMITS)
 - CATCH BASIN
 - RAILROAD
 - 2022/2023 ENW SHALLOW SOIL BORING (mg/kg ppm)
 - 2011 CITY OF PORTLAND SOIL SAMPLE LOCATION
 - 2022 ENW DECISION UNIT FOR SHALLOW SOIL INCREMENTAL SAMPLING
 - SOIL INCREMENT SAMPLE LOCATION
 - SOIL SAMPLE AT SAMPLE LOCATION EXCEEDS ODEQ RBC FOR RECREATIONAL USER
 - TOTAL PCB AS AROCLORS CONCENTRATION
 - AROCLOR 1254 DETECTED IN ADDITION TO AROCLOR 1260



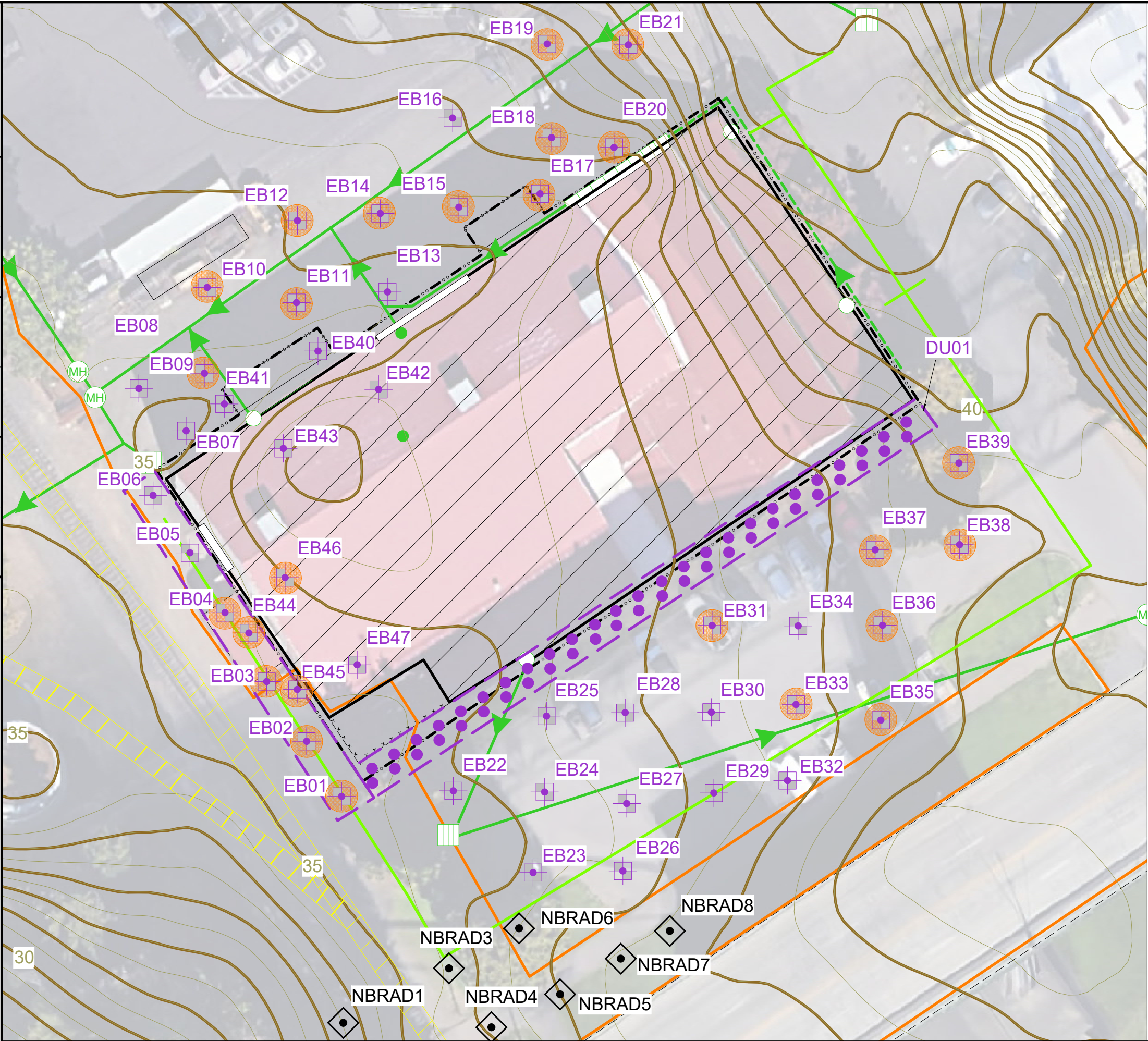
- NOTES:
- CONCENTRATIONS IN PURPLE EXCEED ODEQ'S RBC OF 0.52 MG/KG FOR A RECREATIONAL USER.
 - BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2018 AND ENW FIELD NOTES.
 - ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
 - SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.



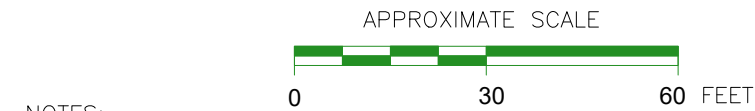
EVRENNORTHWEST INC.
environmental natural resource consultants
PO BOX 14488, PORTLAND, OREGON 97293
P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 4A
SAMPLE LOCATION DIAGRAM
PENINSULA IRON WORKS - BUILDING 2
6618 N ALTA AVENUE
PORTLAND, OREGON

DRAWN BY: H. ROMER
CHECKED BY: E. BRUGGEMAN
APPROVED BY: L. GREEN
DRAWING NUMBER: 1355-21001(v01)



- LEGEND:
- SUBJECT PROPERTY BOUNDARY
 - SUBJECT BUILDING
 - DRAINAGE BASIN FOR CITY OUTFALL 52
 - STORM SEWER
 - STORM SEWER (PERFORATED)
 - ROOF DOWNSPOUT
 - CITY COMBINED STORM/SANITARY SYSTEM
 - STORM SYSTEM FLOW DIRECTION
 - STORM SEWER PLUG (PER CITY OF PORTLAND PERMITS)
 - CATCH BASIN
 - RAILROAD
 - 2022/2023 ENW SHALLOW SOIL BORING (mg/kg ppm)
 - 0.5'
 - 1.5'
 - 2.5'
 - 2011 CITY OF PORTLAND SOIL SAMPLE LOCATION
 - 2022 ENW DECISION UNIT FOR SHALLOW SOIL INCREMENTAL SAMPLING
 - SOIL INCREMENT SAMPLE LOCATION
 - SOIL SAMPLE AT SAMPLE LOCATION EXCEEDS ODEQ RBC FOR RECREATIONAL USER
 - ESTIMATED SURFACE ELEVATION CONTOURS MODELED USING STATE DOGAMI LIDAR DATA (CONTOUR INTERVAL = 0.52 FEET)



- NOTES:
1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2018 AND ENW FIELD NOTES.
 2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
 3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.





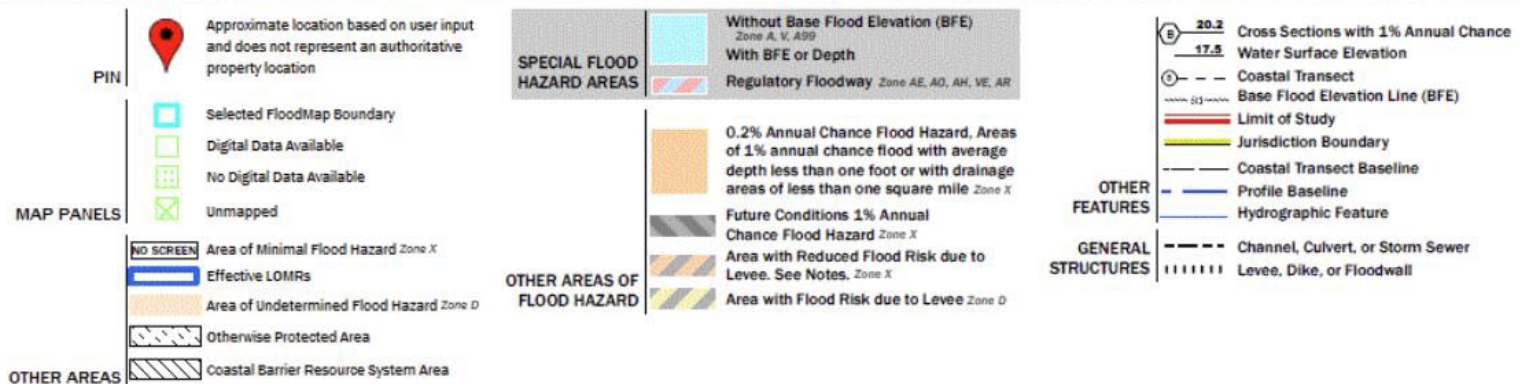
environmental, natural resource consultants

PO BOX 14488, PORTLAND, OREGON 97293
P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 4B

GROUND SURFACE ELEVATION AND
PCB ISOCONCENTRATION CONTOUR MAP

PENISULA IRON WORKS - BUILDING 2
6618 N ALTA AVENUE
PORTLAND, OREGON



Date Drawn: 3/14/2023
CAD File Name: 1355-21001-fig2aFEMA
Drawn By: HAR
Approved By: LDG

Industrial Property
6618 N Alta Avenue
Portland, Oregon

FEMA Flood Map of Site Vicinity

Project No.
1355-21001
Figure No.
5

Appendix A

Site Photographs



View east across decision unit DU01. ENW used a hand auger to collect and ISM sample and two replicate ISM samples from the area. A measuring tape was used to lay out the sample grid.



A roto hammer was used to penetrate the concrete apron at boring B04 on west side of PIW bldg.



Using a skid steer to retrieve DPT sample core from boring B05 along the west side of the PIW building at B01.



A piece of metallic slag found in the boring at B05.

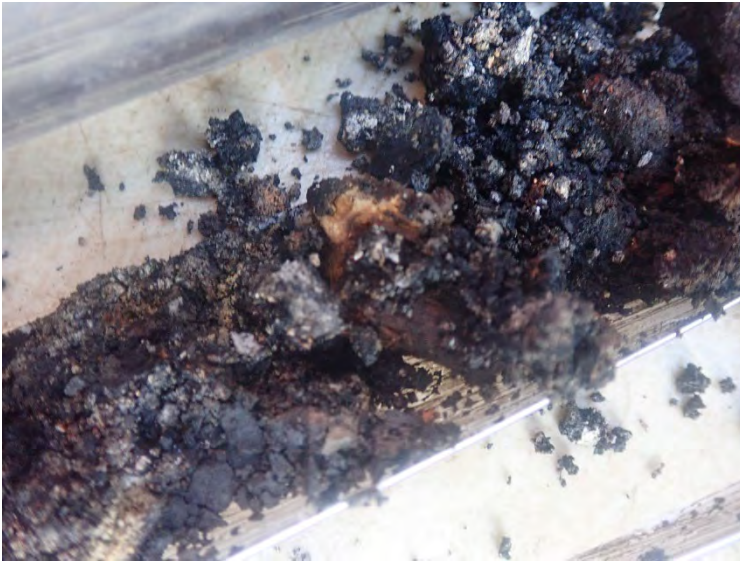


Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

Site Photographs

Project No.
1355-21001-08

Appendix
A



Closeup of black asphaltic fill material recovered from borings along UPRR ROW.



Soil cores were retrieved in plastic liners for field screening using a PID and collection of discrete soil samples.



Using a PID to measure soil headspace measurements of a portion of the soil core.



Equipment rinsate blanks were collected each day as part of the quality assurance/quality control program.



Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

Site Photographs

Project No.
1355-21001-08

Appendix
A



View of B08 at west end of N. Alta Avenue ROW.



View of soil core from B08, revealing the gravel base rock beneath the asphalt surface.



Soil materials encountered at B09 had the highest PCB concentrations of borings on the north side of the building.



Soil materials recovered from B11, one of the borings with the highest PCBs detected in shallow soil.

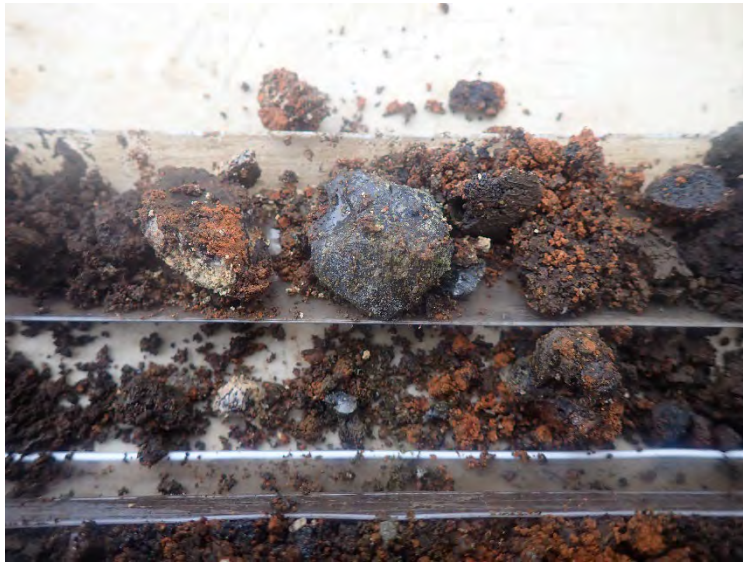


Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

Site Photographs

Project No.
1355-21001-08

Appendix
A



Larger fragments are pieces of glass observed in the soil core from B24.



General view west along Parks Department parking lot.



Drilling B41 on the north side of the PIW building, looking west.



Soil recovered from under the floor slab at EB42.

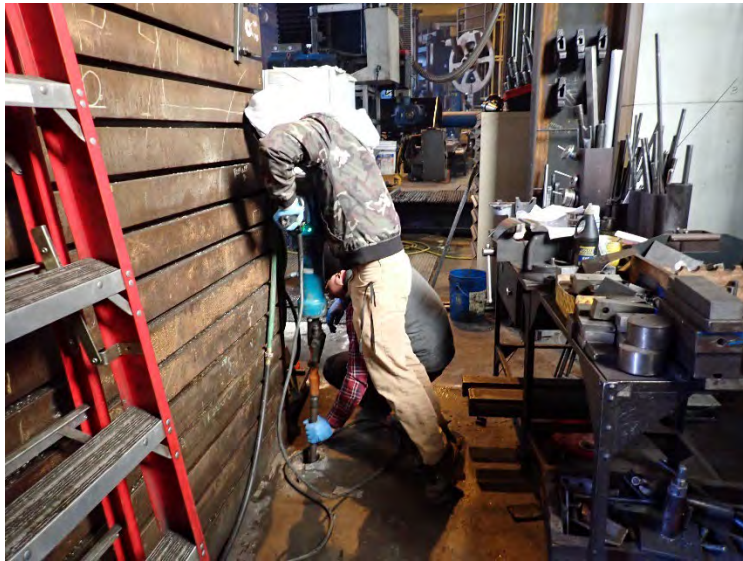


Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

Site Photographs

Project No.
1355-21001-08

Appendix
A



Drilling B46 inside the PIW building.



Medium sands encountered in EB43 inside the PIW building.



Brick fragments in EB46.



Apparent copper slag from EB47.



Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

**Site
Photographs**

Project No.
1355-21001-08

Appendix
A



Alternating black, gray, and orange layering at EB44 indicative of previous fire in 1957.



Debris fill in EB45.



Peninsula Irons Works
6618 N. Alta Avenue
Portland, Oregon

Site Photographs

Project No.
1355-21001-08

Appendix
A

Appendix B

Boring Logs

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB01
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Very dark gray coarse sandy material. Well graded, many fines. Moist, non-cohesive. Strongly micaceous.	EB01-0.5				1.9	
1	17		Lens at 1' of brick-colored fine, silty material. Below 1' is sand and silt material (dark gray with some light brown and red) mixed with glass slag chunks (highly porous, gravel-sized). Moist, non-cohesive.	EB01-1.5		70		0.7	
2	16			EB01-2.5				0.3	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

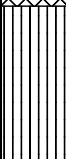
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB02
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Dark gray loose well-sorted gravel fill, fine, angular to subrounded, dry, non-micaceous.	EB02-0.5				0.2	
1	17		Thin lens of brick material at 1.25'.						
			Brown medium-dense, silt with gravel and some sand, strong orange and gray mottling, barely moist, micaceous, glass slag present.	EB02-1.5		80		0.1	
2	16		Dark brown vesicular glass slag chunks with some brown and orange silt	EB02-2.5				2.5	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB03
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose dark gray poorly-sorted subangular gravel, suspect non-native, many fines, dry.	EB03-0.5				0.5	
1	17								
			Sharp contact with very stiff light brown silt, barely moist, mottled orange and gray with some black decayed organics, low-platicity, micaceous. Suspect this unit is non-native because it is bracketed above and below with what appears to be foreign material.	EB03-1.5		70		0.4	
2	16								
			Dark gray subrounded gravel with lots of fines and large chunks of vesicular glass slag.	EB03-2.5				0.1	
3	15		End of boring					0.1	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB04
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Medium-loose dark gray well-sorted angular gravel with sand and fines, mottled orange and light gray, barely moist, no mica. Suspect road base fill.	EB04-0.5				0.2	
1	17		VERY dark brown fine glassy material with vesicular chunks.	EB04-1.5		90			
2	16		Medium stiff gray silt, mottled light gray and orange, occasional black decayed organics, micaceous (notably large flakes).	EB04-2.5				0.1	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB05
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose light gray gravel, wet, lots of fines. Near the top of this unit is a thin layer of white goop (possibly bentonite). No mica.	EB05-0.5				0.0	
1	17		VERY dark gray gravel-sized fill material (crumbly and vesicular). Possible burned material.						
			Roots at upper contact.	EB05-1.5		90		0.0	
			Medium stiff gray silt, moist, low-plasticity, preserved organic material, mottled light gray-green, micaceous.						
2	16			EB05-2.5				0.0	
			Stiffness increases to very stiff.						
3	15		End of boring					0.3	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB06
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose dark gray to black gravel-sized glassy/rocky material, well-sorted.	EB06-0.5				0.2	
1	17		Loose orange and dark gray gravel-sized glassy/rocky material, well-sorted.						
			Very stiff gray-green silt, moist, low-plasticity, micaceous, rusty orange debris.	EB06-1.5		100		0.1	
2	16		Mixture of silt and loose fine glassy material, organic debris.	EB06-2.5					
3	15		End of boring					0.4	
4	14								
5	13								
6	12								
7	11								

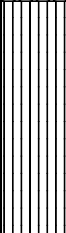
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB07
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-09-22	11-09-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gray well-sorted subangular gravel material, barely moist, no mica.	EB07-0.5				1.1	
1	17		Black to dark gray glass slag material, vesicular, gravel-sized, barely moist.	EB07-1.5		75			
2	16			EB07-2.5					
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB08
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose brown and gray subrounded, well-sorted gravel, barely moist, non-micaceous.	EB08-0.5				0.0	
1	17		Medium-dense brown silt with gravel, barely moist, slight orange mottling, micaceous.						
			Large chunks of vesicular glass slag.	EB08-1.5				0.4	
2	16		Medium-dense gray silt, barely moist, low plasticity, micaceous.						
			Color grades to brown.	EB08-2.5				0.1	
3	15		End of boring					0.2	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB09
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose brown and gray subrounded gravel, well-sorted, barely moist.	EB09-0.5				0.6	
1	17								
			Medium-soft brown silt with gravel, stained orange, barely moist, micaceous, glass slag fragments.	EB09-1.5				0.2	
2	16		Medium-dense gray silt, strongly mottled orange, barely moist, some decayed organics, micaceous.	EB09-2.5				0.3	
3	15		End of boring					0.2	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB10
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gray well-sorted subrounded gravel, no mica.	EB10-0.5				0.0	
1	17								
			Dark brown sandy gravel with glass slag chunks.	EB10-1.5		100		0.0	
2	16		Medium-stiff brown silt, barely moist, gray and orange mottling, micaceous.	EB10-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB11
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gray and brown well-sorted, subrounded gravel, dry, sand and fines plentiful, no mica, slight orange staining.	EB11-0.5				0.0	
1	17		Strong lens of quartz sand						
			Dark brown sand with silt and some gravel, barely moist, glass slag present.	EB11-1.5		100		0.0	
2	16		Medium-dense brown silt with fine sand, barely moist, low plasticity, strongly mottled orange, micaceous.						
			Silt color grades to gray	EB11-2.5				0.0	
3	15		Silt grades back to brown with less orange mottling. End of boring.						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB12
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose well-sorted gravel, saturated, much silt and sand.	EB12-0.5				0.0	
1	17		Moisture reduces to wet						
			Medium-dense brown siltbarely moist, mottled orang with some gray, low plasticity, micaceous.	EB12-1.5				0.0	
2	16			EB12-2.5				0.0	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

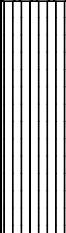
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DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB13
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose dark gray well-sorted subrounded gravel with sand, barely moist.	EB13-0.5				0.0	
1	17		Dark gray to black well-sorted sandy gravel of glass slag, orange staining.	EB13-1.5		90		0.3	
2	16		Stark lens of quartz sand						
			Soft brown silt with fine sand, barely moist, slight orange mottling, micaceous.	EB13-2.5				0.0	
3	15		Soft gray silt with fine sand, barely moist, micaceous.						
			Medium-dense brown silt with sand, barely moist, strong orange mottling, micaceous.						
			End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB14
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gray well-sorted subrounded gravel, dry.	EB14-0.5				0.0	
1	17								
			Medium-soft black silt with sand and gravel, moist, glass slag present.	EB14-1.5		80		0.0	
2	16		Medium soft brown silt, low plasticity, mottled orange, micaceous.	EB14-2.5, FD03				0.0	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB15
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-11-22	11-11-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gray well-sorted subrounded gravel, barely moist, no mica.	EB15-0.5				0.0	
			Orange staining						
1	17		Medium-soft brown silt, moist, low plasticity, micaceous.						
			Gravel-sized chunks of black glass slag mixed with brown silt. Orange staining, silt grades to sand among glass slag chunks.	EB15-1.5		90		0.0	
2	16		Sharp contact with medium-soft brown silt barely moist, low plasticity, no mottling, micaceous.	EB15-2.5				0.0	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

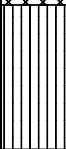
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DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB16
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		1.5			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt	EB16-0.5		100		0.0	
			Loose gray well-sorted subrounded gravel, moist.						
			Brown silt with some sand, barely moist, mottled gray and orange, micaceous.						
1	17		Soft dark brown and gray silt with sand, no observable mica.	EB16-1.5		100		0.0	
			Lens of very dark brown material at horizon. Below horizon, medium-stiff brown silt, barely moist, no plasticity, mottled orange and gray, micaceous.						
2	16								
3	15								
4	14								
5	13								
6	12								
7	11								

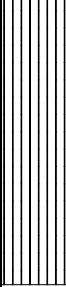
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DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB17
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose dark gray and rusty orange gravelly glass slag material, some fined, barely moist.	EB17-0.5				9.0	
1	17		Medium-soft gray silt, sand present, barely moist, mottled strongly orange, micaceous.	EB17-1.5		90		0.3	
			What appears to be loose woody material, black, possibly burned						
2	16		Soft brown silt, moist, mild orange mottling, micaceous.	EB17-2.5					
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB18
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Medium-stiff brown silt with gravel, barely moist, low plasticity, mottled orange, micaceous.	EB18-0.5				0.5	
1	17		Gravel-to-fine spread of glassy slag, dark brown and orange.						
			Medium-soft brown silt, barely moist, strong orange and some brown mottling, micaceous.	EB18-1.5		80		0.8	
2	16			EB18-2.5				1.1	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB19
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose well-sorted subrounded gravel, dry.						
			Soft dark brown silty material, moist, no plasticity or mottling, micaceous.	EB19-0.5				0.0	
1	17								
			Medium-stiff brown silt, barely moist, strongly mottled orange and gray, micaceous.	EB19-1.5				0.3	
2	16								
				EB19-2.5				0.5	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB20
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Well-sorted subangular coarse gravel, barely moist, no mica.	EB20-0.5				7.6	
1	17		Medium-dense brown silt, barely moist, strongly mottled orange, black decayed organics, micaceous.	EB20-1.5, FD02		90		11.2	
2	16			EB20-2.5				20.7	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

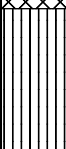
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB21
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		11-10-22	11-10-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt						
			Loose gravel-sized glass slag and hematite chunks, dry	EB21-0.5				0.2	
1	17		Stiff brown silt, barely moist, cohesive and highly plastic, strongly mottled orange, micaceous.	EB21-1.5				1.9	
2	16			EB21-2.5				1.4	
3	15		End of boring						
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB22
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and road base gravel						
			Stiff brown silt with fine sand, barely moist, slight gray and orange mottling, micaceous.	EB22-0.5				0.5	
1	17		Medium-loose dark brown sand, no cohesion, barely moist, glass slag chunks, rust discoloration, root fragments toward bottom of fill unit.	B22-1.5		80		0.5	
2	16		Stiff brown silt with fine sand, barely moist, orange mottling, micaceous.	EB22-2.5				0.4	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB23
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and gravel						
			Loose light brown rounded gravel with silt and sand, barely moist, rust staining.						
			Dark brown gravel, sand, some fines mixed with rust-stained glass and metal slag.	EB23-0.5				0.2	
1	17								
			Stiff light brown silt, barely moist, slight orange mottling, micaceous, root traces present.	EB23-1.5		60		0.6	
2	16								
			Loose coarse brown sand, metal slag, all rust-stained. Some metal slag is rounded, as if it was once pipe.	EB23-2.5				0.2	
3	15								
			End of boring					0.5	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB24
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and coarse gravel base.						
			Medium-loose brown silt with sand, barely moist, micaceous.	EB24-0.5				0.0	Limited sample quantity collected
1	17		Rust-orange sand with dark brown, gravel-sized glass slag. Slag is shiny and angular, with conchoidal fracture.						
			Dark brown sandy material, some brown silt mixed in, copious glass and possibly metal slag.	EB24-1.5		60			
2	16			EB24-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB25
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and gravel base						
			Loose dark brown sand with gravel-sized glass slag chunks, some fines, rust staining.	EB25-0.5				0.0	
1	17								
			Stiff brown silt with fine sand, barely moist, mottled orange and gray with many decayed black organics, micaceous.	EB25-1.5		100		0.0	
2	16								
				EB25-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB26
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			2.5

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel	EB26-0.5		80		0.0	
			Medium-soft brown silt with fine sand, barely moist, stained orange and gray.						
1	17		Gravel-sized mix of rounded glass and metal slag with sand. Rust staining throughout.						
			Crystalline metal slag	EB26-1.5					
2	16		Stiff brown silt with fine sand, barely moist, some rusty and black staining, micaceous.	EB26-2.5				0.0	
			End of boring						
3	15								
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB27
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel.						
			Dark brown to black sandy material with glass and metal slag chunks. Some rust staining.	EB27-0.5				0.0	
1	17		Chunk of yellow-white kiln brick	EB27-1.5				0.0	
2	16			EB27-2.5				1.7	
3	15		End of boring					1.6	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB28
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and gravel road base.						
			Stiff brown silt with fine sand, barely moist, mottled orange, some black decayed organics, micaceous.	EB28-0.5				0.0	
1	17		Sandy black material with no fines, big chunks of wood, big chunk of metal slag.	EB28-1.5, FD04		70		0.0	
2	16		Medium-soft brown silt with fine sand, barely moist, mottled orange, micaceous.						
			Sandy dark brown material with gravel-sized chunks of glass and metal slag.	EB28-2.5				0.0	
3	15		End of boring					0.2	
4	14								
5	13								
6	12								
7	11								

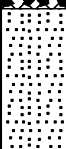
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB29
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel.	EB29-0.5		100		0.0	
			Dark gray metallic sandy material with rust staining.						
			Dense brown fine sand, barely moist, some black and orange mottling, micaceous.						
1	17		Black gravelly material, rust stained, glass and metal slag.	EB29-1.5, FD05		100		0.0	
			Medium dense brown silt with fine sand, barely moist, gray and orange mottling, micaceous.						
2	16			EB29-2.5				0.0	
									
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB30
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel.						
			Medium-dense brown fine sand barely moist, little silt brown and orange mottling, micaceous.	EB30-0.5					
1	17		Dark brown to black material with gravel and some silt, metal and glass slag, rust staining.	EB30-1.5		80		0.0	
2	16		Stiff brown silt with fine sand, barely moist, some rust staining, micaceous.	EB30-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB31
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel.						
			Medium-loose brown to dark gray sandy material, some fines, brick debris, glass shards, some rock gravel.	EB31-0.5					
1	17								
				EB31-1.5		100		0.0	
2	16		Chunk of black, partially-decayed wood						
			Stiff brown silt with fine sand barely moist, gray and orange mottling, micaceous.	EB31-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

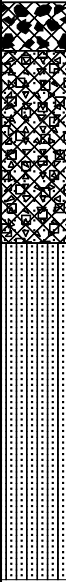
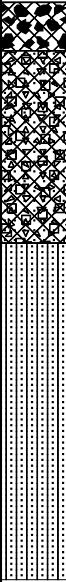
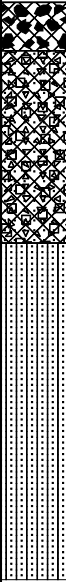
EVREN Northwest, Inc.

DRILL LOG		PROJECT		PROJECT NO.		BORING NO.	
		Penninsula Iron Works		1355-21001-08		EB32	
SITE		BEGUN		COMPLETED		HOLE SIZE	
6618 N Alta Avenue Portland, OR		12-14-22		12-14-22		1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL		FIRST WATER	
DRILLER		CORE RECOVERY (%)		# SAMPLES		# CORE BOXES	
Evren Northwest				3			
DRILL RIG		LOGGED BY:					DEPTH BOTTOM OF HOLE
		Jordan Morris					3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel	EB32-0.5					
			Medium-dense gray coarse subangular gravel with brown silt, moist, mottled orange, barely micaceous, some wood debris.						
1	17		Dark gray to black sandy material, few fines, rust staining, metal slag, possibly glass slag.	EB32-1.5		70		1.2	
2	16		Stiff gray silt, barely moist, low plasticity, orange mottling, barely micaceous.	EB32-2.5				0.0	
			Dense gray to brown fine sand with silt (contact grades from silt above), barely moist, low cohesion, strongly mottled orange and gray.						
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB33
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-13-22	12-13-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel.	EB33-0.5		100		0.0	
			Brown to black sandy material with silt mixed in, chunks of rock gravel, glass, and metal slag. Some rust staining.						
1	17								
			Medium-soft brown fine sand with silt, barely moist, slight orange and gray mottling, micaceous.	EB33-1.5				0.0	
2	16								
				EB33-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

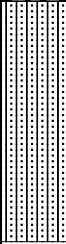
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB34
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Asphalt and base gravel	EB34-0.5		100		0.0	
			Medium-dense gray and brown medium subrounded gravel with silt. Wood debris and glass chunks.						
			Loose dark gray gravel with sand, moist, rust staining.						
1	17		Medium-soft dark gray, gray, and brown fine sand, lenses of yellow, barely moist, no cohesion, strongly mottled orange (possibly rust staining), micaceous.	EB34-1.5				0.0	
2	16		Medium-stiff brown silt with fine sand, moist, low plasticity, micaceous.	EB34-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT			PROJECT NO.		BORING NO.
	Penninsula Iron Works			1355-21001-08		EB35
SITE		BEGUN	COMPLETED	HOLE SIZE		ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-2	1 1/4"		
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER	GROUND ELEVATION
						18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES	DEPTH TOP OF ROCK
Evren Northwest				3		
DRILL RIG		LOGGED BY:				DEPTH BOTTOM OF HOLE
		Jordan Morris				3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Medium-stiff gray medium-to-coarse subangular gravel with brown silt, wet, some rust staining.	EB35-0.5				4.2	
1	17			EB35-1.5		60		0.1	
2	16		Medium-loose brown fine sand, moist, low cohesion, occasional medium gravel, minor orange and gray mottling, strongly micaceous.	EB35-1.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB36
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Medium dense gray to brown subangular gravel with some sand and little silt, moist, rust staining, glass shards, metal slag.	EB36-0.5				0.0	
1	17		Lens of kiln brick at horizon between layers.	EB36-1.5				0.0	
2	16		Medium-loose brown fine sand with little silt, barely moist, no cohesion, slight orange mottling, root traces, strongly micaceous.	EB36-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB37
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Loose dark gray subangular to subrounded medium gravel with sand and silt, barely moist, intermittent silt is medium-stiff. Some orange mottling.	EB37-0.5					
1	17		Brown and gray sand and gravel, wood debris, glass debris, copious root traces, rust staining, some black decayed organics, strongly micaceous.	EB37-1.5		90		0.0	
2	16		Medium-loose light brown fine sand with little medium-coarse subrounded gravel, barely moist, orange mottling, micaceous.	EB37-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

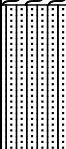
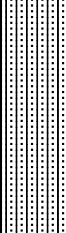
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB38
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Gray to brown subangular fine gravel with sand and little fines, glass shards, glass slag, rust staining, grades into sand below.	EB38-0.5				0.0	
1	17		Loose brown fine sand, trace gravel, barely moist, no cohesion, slight orange mottling, micaceous.						
			Lens of dark brown sand. Root traces appear and continue downward through the rest of the boring.	EB38-1.5, FD06		100		0.0	
2	16		Chunk of kiln brick	EB38-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB39
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		12-14-22	12-14-22	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Soft highly organic dark brown soil, trace rounded gravel, moist, orange mottling, copious vegetation and root material.	EB39-0.5					
1	17		Loose brown fine sand with silt, barely moist, moderate cohesion, barely micaceous.	EB39-1.5				0.0	
2	16		Lens of coarse quartz sand at 1.75. Below lens, loose light brown fine sand with little silt, barely moist, faint orange and gray mottling, root traces, micaceous.	EB39-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB40
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	10-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Moist gravel road base						
			Medium-loose dark gray to dark brown well-graded gravel material, sand and fines plentiful, some rust staining, occasional yellow-white kiln brick, glass and metal slag throughout, some wood debris.	EB40-0.5				0.0	
1	17			EB40-1.5		80		0.0	
2	16			EB40-2.5				0.0	
3	15		Medium soft gray silt with fine sand, moist, medium plasticity, thinly-laminted dark brown bedding. End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

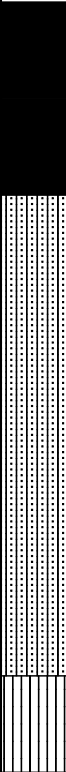
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB41
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morrisa			
		DEPTH BOTTOM OF HOLE			
		3			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Gravel road base, dark gray						
1	17		Brown to dark brown loose sand with copious rust staining, moist, filled throughout with glass and metal slag, some whitish-yellow kiln brick, some wood debris	EB41-0.5				0.0	
2	16			EB41-1.5		75		0.0	
3	15		Gray medium soft silt, moist, medium plasticity, very strongly mottled orange, strong rust staining.	EB41-2.5				0.0	
			End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB42
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			
		Jordan Morris			
		DEPTH BOTTOM OF HOLE			
		4			

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Concrete slab						
1	17		Yellow-brown medium-loose fine sand, silt present, moist, moderate cohesion, faint orange mottling, strongly micaceous	EB42-0.5		100		0.0	
2	16			EB42-1.5				0.0	
3	15		Medium-soft brown silt with fine sand, moist, faint orange and gray mottling, occasional black decayed organics, strongly micaceous	EB42-2.5				0.0	
4	14		End of boring					0.0	
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB43
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				4	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3.5

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Concrete slab						
			Medium-loose well-graded gravel, subrounded grains, max 3/4" diameter, 40% medium sand, almost no fines, moist.						
1	17		Medium-loose brown medium sand, very poorly graded, much observable quartz, barely moist, micaceous.	EB43-0.5				0.0	
2	16			EB43-1.5; FD07		80		0.0	
3	15			EB43-2.5				0.0	
			Strong rust horizon, an inch of stained orange metal slag at horizon. Sharply changes below rust horizon to medium soft brown silt with fine sand, moist, orange mottling, micaceous.					0.0	
4	14		End of boring						
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB44
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Loose gray gravel (max diameter 3/4") with 30% silt, moist, rust staining throughout.						
			Dark brown to black well-graded subangular gravel with 30% coarse sand, moist.	EB44-0.5				0.0	
1	17		Loose brown angular gravel (max diameter 3/4") with 10% silt, wet, rust staining at lower contact.						
			Dark gray to black crushed metal and glass slag, max 1/5" diameter, well graded--clasts medium sand to medium gravel-sized. Moist.	EB44-1.5		70		0.0	
2	16			EB44-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB45
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		10-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Medium-loose gray to dark gray subangular gravel with about 20% sand. Silt present. Many grades of gravel, well- graded up to 2". Mostly moist, wet at bottom contact. Micaceous.	EB45-0.5				0.0	
1	17			EB45-1.5		70		0.0	
2	16		Multicolored fill. Dark brown, gray-green, rusty, and black material, metal shavings, metal slag, wood debris, glass shards, subrounded 1/2" gravel, fine sand. Moist.	EB45-2.5				0.0	
3	15		End of boring					0.0	
4	14								
5	13								
6	12								
7	11								

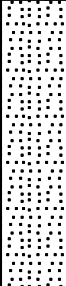
EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB46
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3.75

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Concrete slab						
1	17		Brown medium-dense subrounded gravel with sand, up to 1" clasts, some rust staining, moist, chunks of brick, micaceous.	EB46-0.5				0.0	
2	16			EB46-1.5		80		0.0	
3	15		Gray medium-dense angular gravel with silt (up to 2" clasts), moist, density of brick chunks greater than upper part of bore.	EB46-2.5				0.0	
4	14		End of boring					0.0	
5	13								
6	12								
7	11								

EVREN Northwest, Inc.

DRILL LOG	PROJECT		PROJECT NO.		BORING NO.
	Penninsula Iron Works		1355-21001-08		EB47
SITE		BEGUN	COMPLETED	HOLE SIZE	ANGLE FROM HORIZ.
6618 N Alta Avenue Portland, OR		01-23-23	01-23-23	1 1/4"	
COORDINATES		DEPTH GROUND WATER	DATE SL	STATIC LEVEL	FIRST WATER
					GROUND ELEVATION
					18 AMSL
DRILLER		CORE RECOVERY (%)		# SAMPLES	# CORE BOXES
Evren Northwest				3	DEPTH TOP OF ROCK
DRILL RIG		LOGGED BY:			DEPTH BOTTOM OF HOLE
		Jordan Morris			3.5

DEPTH	STRATA ELEVATION/ DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE DATA				PID/OVM	REMARKS: NOTES ON WATER LEVELS, LOSSES, CAVING, CASING, DEPTH & DRILLING CONDITIONS.
				SAMPLE NO.	SAMPLE TYPE	CORE RECOVERY	MW Const./ Completion		
0	18		Concrete slab						
1	17		Medium-loose subangular gravel with 25% silt, moist, rust staining, some metal slag.	EB47-0.5				0.0	
2	16		Light gray loose poorly-sorted medium sand, moist, non cohesive, quartz-rich, micaceous.	EB47-1.5		50		0.0	
3	15		Loose gray coarse sand, moist, non-cohesive, quartz-rich, micaceous.	EB47-2.5				0.0	
4	14		End of boring					0.0	
5	13								
6	12								
7	11								

Appendix C

Laboratory Analytical Reports

Analytical Laboratory Data Validation Check Sheet

Project Name: PIW Build 2 – 6618 N Alta Ave, PortlandProject Number: 1355-21001-08Date of Review: 12/27/2022Lab. Name: F&BILab Batch ID #: 212229Chain of Custody

- 1.) Are all requested analyses reported? ☒yes ☐no
- 2.) Were the requested methods used? ☒yes ☐no
- 3.) Trip blank submitted? ☐yes ☒no
- 4.) Field blank submitted? ☒yes ☐no

Timing

- 5.) Samples extracted within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 6.) Analysis performed within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Quality Assurance/Quality Control

- 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) ☒yes ☐no
- 8.) Are all reported values above either MRL or MDL? ☒yes ☐no
- 9.) Are all values between the MDL & PQL tagged as trace? ☐yes ☐no ☒NA
- 10a.) Are reporting limits raised for other reason besides high analyte conc.? ☐yes ☒no
- 10b.) If so, are they footnoted? ☐yes ☐no ☒NA
- 11.) Lab method blank completed? ☒yes ☐no
- 12.) Lab, Field, or Trip Blank(s) report detections? ☐yes ☒no
- If yes, indicate blank type, chemical(s) and concentration(s): _____

- 13.) For inorganics and metals, is there one method blank for each analyte? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 14.) For VOCs, is there one method blank for each day of analysis? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 15.) For SVOC's, is there one method blank for each extraction batch? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Accuracy

- 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ☒yes ☐no ☐NA
Do all surrogate spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☒yes ☐no ☐NA

The calibration results for samples B22-0.5, B22-1.5, B22-2.5, B23-1.5, B23-2.5, B24-0.5, B24-1.5, B24-2.5, B25-0.5, B25-1.5, B25-2.5, B26-2.5, B27-0.5, B27-1.5 & B27-2.5 were outside of acceptance criteria. The value reported is an estimate. (ca)

The original calibration results for Method Blank (soil) were outside of acceptance criteria (ca). However, Method Blank was re-evaluated, and results are within acceptance criteria.

Sample B33-0.5 was diluted. Detection limits were raised, and surrogate recoveries may not be meaningful. (d)

- 17.) Is there a spike recovery for all Laboratory Control Samples? ☒yes ☐no ☐NA
Do all LCS/LCSD spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 18.) Are all LCS/LCSD RPDs within acceptable limits? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Precision

19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits?

☒yes ☐no ☐NA

If not, are all discrepancies footnoted?

☐yes ☐no ☒NA

20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits?

☒yes ☐no ☐NA

If not, are all discrepancies footnoted?

☐yes ☐no ☒NA

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☒yes ☐no ☐NA

Comments:

The Aroclor 1260 response for sample B33-0.5 exceeded the valid instrument calibration range. The value reported is an estimate. (ve)

Initial Review By: AR

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: PIW Build 2 – 6618 N Alta Ave, PortlandProject Number: 1355-21001-08Date of Review: 11/30/2022Lab. Name: F&BILab Batch ID #: 211193Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | ☒ yes | ☐ no |
| 2.) Were the requested methods used? | ☒ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☒ no |
| 4.) Field blank submitted? | ☐ yes | ☒ no |

Timing

- | | | |
|--|---|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no ☒ NA |

Quality Assurance/Quality Control

- | | | |
|--|---|--|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☒ yes | ☐ no |
| 8.) Are all reported values above either MRL or MDL? | ☒ yes | ☐ no |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☐ no ☒ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☒ no |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no ☒ NA |
| 11.) Lab method blank completed? | ☒ yes | ☐ no |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☒ no |
- If yes, indicate blank type, chemical(s) and concentration(s): _____

- | | | | |
|---|---|-----------------------------|--|
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|---|--|-----------------------------|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☒ yes | ☐ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☐ yes | ☒ no | |
| If not, are all discrepancies footnoted? | ☒ yes | ☐ no | ☐ NA |

Samples B10-0.5, B11-0.5, B11-2.5, B15-0.5 were diluted. Detection limits were raised, and surrogate recoveries may not be meaningful. (d)

- | | | | |
|--|---|-----------------------------|--|
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☒ yes | ☐ no | ☐ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Precision

- | | | | |
|---|---|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within | | | |

acceptable limits?

☒yes ☐no ☐NA

If not, are all discrepancies footnoted?

☐yes ☐no ☒NA

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☒yes ☐no ☐NA

Comments:

For sample B15-0.5, the Aroclor 1260 analyte response exceeded the valid instrument calibration range. The value reported is an estimate. (ve)

Gasoline was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable. (nm)

Initial Review By: AR

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: PIW-Build 2-6618_N_Alta_Ave-Portland

Project Number: 1355-21001-08

Date of Review: 1/17/2023

Lab. Name: F&BI

Lab Batch ID #: 212252

Chain of Custody

- 1.) Are all requested analyses reported? ☒yes ☐no
- 2.) Were the requested methods used? ☒yes ☐no
- 3.) Trip blank submitted? ☐yes ☒no
- 4.) Field blank submitted? ☐yes ☒no

Timing

- 5.) Samples extracted within holding times? ☐yes ☒no
- If not, are all discrepancies footnoted? ☒yes ☐no ☐NA

Samples B35-0.5, for analysis of SVOC and VOC, and B35-1.5 for analysis of NWT PH-Gx and NWT PH-Dx were extracted outside of method holding time (ht).

- 6.) Analysis performed within holding times? ☐yes ☒no
- If not, are all discrepancies footnoted? ☒yes ☐no ☐NA

Samples B35-0.5, for analysis of SVOC and VOC, and B35-1.5 for analysis of NWT PH-Gx and NWT PH-Dx were analyzed outside of method holding time (ht).

Quality Assurance/Quality Control

- 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) ☒yes ☐no
- 8.) Are all reported values above either MRL or MDL? ☒yes ☐no
- 9.) Are all values between the MDL & PQL tagged as trace? ☐yes ☐no ☒NA
- 10a.) Are reporting limits raised for other reason besides high analyte conc.? ☐yes ☒no
- 10b.) If so, are they footnoted? ☐yes ☐no ☒NA
- 11.) Lab method blank completed? ☒yes ☐no
- 12.) Lab, Field, or Trip Blank(s) report detections? ☐yes ☒no

If yes, indicate blank type, chemical(s) and concentration(s): _____

- 13.) For inorganics and metals, is there one method blank for each analyte? ☐yes ☐no ☒NA
- If not, are all discrepancies footnoted? ☐yes ☐no
- 14.) For VOCs, is there one method blank for each day of analysis? ☒yes ☐no ☐NA
- If not, are all discrepancies footnoted? ☐yes ☐no
- 15.) For SVOC's, is there one method blank for each extraction batch? ☒yes ☐no ☐NA
- If not, are all discrepancies footnoted? ☐yes ☐no

Accuracy

- 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ☒yes ☐no ☐NA
- Do all surrogate spike recoveries meet accepted criteria? ☒yes ☐no
- If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 17.) Is there a spike recovery for all Laboratory Control Samples? ☒yes ☐no ☐NA
- Do all LCS/LCSD spike recoveries meet accepted criteria? ☒yes ☐no
- If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 18.) Are all LCS/LCSD RPDs within acceptable limits? ☐yes ☐no ☒NA
- If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Precision

- 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? ☐yes ☒no ☐NA
- If not, are all discrepancies footnoted? ☒yes ☐no ☐NA

Diesel was spiked at a level that was less than five times that present in the sample; Therefore, matrix spike recoveries may not be meaningful (b).

The reported value of Aroclor 1016 fell outside the control limit established for this analyte (vo).

20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits?

☐yes ☒no ☐NA

If not, are all discrepancies footnoted?

☒yes ☐no ☐NA

Diesel was spiked at a level that was less than five times that present in the sample; Therefore, matrix spike recoveries may not be meaningful (b).

The reported values of Aroclor 1016 and Aroclor 1260 fell outside the control limits established for these analytes (vo).

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

Fluoranthene and pyrene were spiked at a level that was less than five times that present in the sample; Therefore, matrix spike recoveries may not be meaningful (b).

Aroclor 1260 and surrogates TCMX, nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and terphenyl-d14 were part of diluted samples. Detection limits were raised, and surrogate recoveries may not be meaningful (d).

Gasoline was not detected in one or more of the duplicate analyses; Therefore, calculation of the RPD is not applicable (nm).

Samples B35-0.5 and B35-1.5 were received with incorrect preservation or in a container not approved by the method; Therefore, these reported values should be considered estimates (pc).

The analyte response for Aroclor 1260 exceeded the valid instrument calibration range; Therefore, the value reported is an estimate (ve).

Initial Review By: LP

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: PIW-Build 2-6618_N_Alta_Ave-PortlandProject Number: 1355-21001-08Date of Review: 1/17/2023Lab. Name: FrontierLab Batch ID #: 14852-212252Chain of Custody

- 1.) Are all requested analyses reported? ☒yes ☐no
- 2.) Were the requested methods used? ☒yes ☐no
- 3.) Trip blank submitted? ☐yes ☒no
- 4.) Field blank submitted? ☐yes ☒no

Timing

- 5.) Samples extracted within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 6.) Analysis performed within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Quality Assurance/Quality Control

- 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) ☒yes ☐no
- 8.) Are all reported values above either MRL or MDL? ☒yes ☐no
- 9.) Are all values between the MDL & PQL tagged as trace? ☐yes ☐no ☒NA
- 10a.) Are reporting limits raised for other reason besides high analyte conc.? ☐yes ☒no
- 10b.) If so, are they footnoted? ☐yes ☐no ☒NA
- 11.) Lab method blank completed? ☒yes ☐no
- 12.) Lab, Field, or Trip Blank(s) report detections? ☐yes ☒no

If yes, indicate blank type, chemical(s) and concentration(s): _____

- 13.) For inorganics and metals, is there one method blank for each analyte? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 14.) For VOCs, is there one method blank for each day of analysis? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 15.) For SVOC's, is there one method blank for each extraction batch? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no

Accuracy

- 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ☒yes ☐no ☐NA
Do all surrogate spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 17.) Is there a spike recovery for all Laboratory Control Samples? ☒yes ☐no ☐NA
Do all LCS/LCSD spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 18.) Are all LCS/LCSD RPDs within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Precision

- 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 21.) Do all RPD calculations for Field Duplicates meet accepted criteria? ☐yes ☐no ☒NA

Comments:

Several analytes were flagged for coelution (C).

The concentrations of PCB-50, PCB-54, PCB-78, PCB-100, and PCB-166 were below calibration range (J).

Initial Review By: LP

Final Review By: _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
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January 16, 2023

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on December 15, 2022 from the 1355-21001-08, F&BI 212252 project. There are 44 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW0116R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 212252 project.

Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
212252 -01	B32-0.5
212252 -02	B32-1.5
212252 -03	B32-2.5
212252 -04	B34-0.5
212252 -05	B34-1.5
212252 -06	B34-2.5
212252 -07	B35-0.5
212252 -08	B35-1.5
212252 -09	B35-2.5
212252 -10	B36-0.5
212252 -11	B36-1.5
212252 -12	B36-2.5
212252 -13	B37-0.5
212252 -14	B37-1.5
212252 -15	B37-2.5
212252 -16	B38-0.5
212252 -17	B38-1.5
212252 -18	B38-2.5
212252 -19	B39-0.5
212252 -20	B39-1.5
212252 -21	B39-2.5
212252 -22	FD06
212252 -23	RINSATE 06

Samples B32-0.5, B36-0.5, and B37-1.5 were sent to Frontier Analytical for PCB congener analysis. The report is enclosed.

The NWTPH-Gx and NWTPH-Dx extraction of sample B35-1.5 and the 8260D and 8270E analysis of sample B35-0.5 were performed outside of the holding time. In addition, the samples were taken from four ounce glass jars. The data were flagged accordingly.

The 8082A matrix spike and matrix spike duplicate failed the relative percent difference. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix interference.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

Date Extracted: 12/15/22 and 01/05/23

Date Analyzed: 12/16/22 and 01/05/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
B35-0.5 212252-07	20	112
B35-1.5 ht pc 212252-08	<5	92
Method Blank 02-2929 MB	<5	98
Method Blank 03-007 MB	<5	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

Date Extracted: 12/16/22 and 01/05/23

Date Analyzed: 12/16/22 and 01/05/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Residual Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B35-0.5 212252-07	450 x	<250	105
B35-1.5 ht 212252-08	<50	<250	102
Method Blank 02-3015 MB	<50	<250	104
Method Blank 03-116 MB	<50	<250	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: B35-0.5 ht pc	Client: Evren Northwest
Date Received: 12/15/22	Project: 1355-21001-08, F&BI 212252
Date Extracted: 12/29/22	Lab ID: 212252-07
Date Analyzed: 12/29/22	Data File: 122906.D
Matrix: Soil	Instrument: GCMS4
Units: mg/kg (ppm) Dry Weight	Operator: lm

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	106	89	112
4-Bromofluorobenzene	95	84	115

Compounds:	Concentration mg/kg (ppm)
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dichloroethane (EDC)	<0.05
Benzene	<0.03
Toluene	<0.05
1,2-Dibromoethane (EDB)	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Isopropylbenzene	<0.05
n-Propylbenzene	<0.05
1,3,5-Trimethylbenzene	<0.05
1,2,4-Trimethylbenzene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/29/22	Lab ID:	02-2988 mb
Date Analyzed:	12/29/22	Data File:	122905.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dichloroethane (EDC)	<0.05
Benzene	<0.03
Toluene	<0.05
1,2-Dibromoethane (EDB)	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Isopropylbenzene	<0.05
n-Propylbenzene	<0.05
1,3,5-Trimethylbenzene	<0.05
1,2,4-Trimethylbenzene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B35-0.5 ht	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/29/22	Lab ID:	212252-07 1/25
Date Analyzed:	12/29/22	Data File:	122915.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	93 d	16	137
2-Fluorobiphenyl	105 d	46	122
2,4,6-Tribromophenol	92 d	17	154
Terphenyl-d14	114 d	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	0.22
Fluorene	0.16
Phenanthrene	0.26
Anthracene	<0.05
Fluoranthene	0.52
Pyrene	0.46
Benz(a)anthracene	0.29
Chrysene	0.30
Benzo(a)pyrene	0.41
Benzo(b)fluoranthene	0.50
Benzo(k)fluoranthene	0.17
Indeno(1,2,3-cd)pyrene	0.30
Dibenz(a,h)anthracene	0.064
Benzo(g,h,i)perylene	0.29

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/29/22	Lab ID:	02-3066 mb 1/5
Date Analyzed:	12/29/22	Data File:	122909.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	90	16	137
2-Fluorobiphenyl	99	46	122
2,4,6-Tribromophenol	100	17	154
Terphenyl-d14	115	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B32-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-01 1/6
Date Analyzed:	12/22/22	Data File:	122205.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.033
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B32-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-02 1/6
Date Analyzed:	12/21/22	Data File:	122117.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B32-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-03 1/6
Date Analyzed:	12/21/22	Data File:	122118.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	76	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B34-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-04 1/6
Date Analyzed:	12/21/22	Data File:	122119.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.13
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B34-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-05 1/6
Date Analyzed:	12/21/22	Data File:	122120.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B34-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-06 1/6
Date Analyzed:	12/21/22	Data File:	122121.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	71	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B35-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-07 1/6
Date Analyzed:	12/21/22	Data File:	122122.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	69	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.75
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B35-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-08 1/6
Date Analyzed:	12/21/22	Data File:	122123.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.052
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B35-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-09 1/6
Date Analyzed:	12/21/22	Data File:	122127.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.080
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B36-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-10 1/6
Date Analyzed:	12/21/22	Data File:	122128.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	5.4 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B36-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-10 1/300
Date Analyzed:	12/22/22	Data File:	122207.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	23	120

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	6.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B36-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-11 1/6
Date Analyzed:	12/22/22	Data File:	122206.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.19
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B36-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-12 1/6
Date Analyzed:	12/21/22	Data File:	122130.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B37-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-13 1/6
Date Analyzed:	12/21/22	Data File:	122131.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.45
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B37-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-14 1/6
Date Analyzed:	12/21/22	Data File:	122132.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.36
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B37-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-15 1/6
Date Analyzed:	12/21/22	Data File:	122133.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B38-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-16 1/6
Date Analyzed:	12/21/22	Data File:	122134.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.9 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B38-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-16 1/60
Date Analyzed:	12/22/22	Data File:	122208.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 d	23	120

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	2.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B38-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-17 1/6
Date Analyzed:	12/21/22	Data File:	122138.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B38-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-18 1/6
Date Analyzed:	12/21/22	Data File:	122139.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B39-0.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-19 1/6
Date Analyzed:	12/21/22	Data File:	122140.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.39
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B39-1.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-20 1/6
Date Analyzed:	12/22/22	Data File:	122141.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B39-2.5	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-21 1/6
Date Analyzed:	12/22/22	Data File:	122142.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD06	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	212252-22 1/6
Date Analyzed:	12/22/22	Data File:	122143.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/20/22	Lab ID:	02-3031 mb 1/6
Date Analyzed:	12/21/22	Data File:	122114.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	RINSATE 06	Client:	Evren Northwest
Date Received:	12/15/22	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/16/22	Lab ID:	212252-23
Date Analyzed:	12/17/22	Data File:	121630.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	38	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212252
Date Extracted:	12/16/22	Lab ID:	02-3010 mb 1/0.5
Date Analyzed:	12/16/22	Data File:	121604.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	44	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.05
Aroclor 1232	<0.05
Aroclor 1016	<0.05
Aroclor 1242	<0.05
Aroclor 1248	<0.05
Aroclor 1254	<0.05
Aroclor 1260	<0.05
Aroclor 1262	<0.05
Aroclor 1268	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 212189-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 301003-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 212252-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	500	105	95	70-130	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	2,000	97	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 301046-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	880	116 b	152 b	70-130	27 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	114	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 212252-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	<0.05	85	80	21-145	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	86	80	12-160	7
Benzene	mg/kg (ppm)	1	<0.03	84	79	29-129	6
Toluene	mg/kg (ppm)	1	<0.05	77	73	35-130	5
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	<0.05	79	75	28-142	5
Ethylbenzene	mg/kg (ppm)	1	<0.05	78	74	32-137	5
m,p-Xylene	mg/kg (ppm)	2	<0.1	79	75	34-136	5
o-Xylene	mg/kg (ppm)	1	<0.05	79	77	33-134	3
Isopropylbenzene	mg/kg (ppm)	1	<0.05	75	73	31-142	3
n-Propylbenzene	mg/kg (ppm)	1	<0.05	78	74	23-146	5
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	<0.05	78	73	18-149	7
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	<0.05	78	74	10-182	5
Naphthalene	mg/kg (ppm)	1	<0.05	82	80	14-157	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	102	60-123
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	106	56-135
Benzene	mg/kg (ppm)	1	103	71-118
Toluene	mg/kg (ppm)	1	92	66-126
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	95	74-132
Ethylbenzene	mg/kg (ppm)	1	92	64-123
m,p-Xylene	mg/kg (ppm)	2	95	78-122
o-Xylene	mg/kg (ppm)	1	93	77-124
Isopropylbenzene	mg/kg (ppm)	1	89	76-127
n-Propylbenzene	mg/kg (ppm)	1	92	74-124
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	93	76-126
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	94	76-125
Naphthalene	mg/kg (ppm)	1	94	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 212252-08 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	80	86	50-150	7
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	87	92	50-150	6
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	86	90	50-150	5
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	87	91	50-150	4
Acenaphthene	mg/kg (ppm)	0.83	0.16	88	77	50-150	13
Fluorene	mg/kg (ppm)	0.83	0.12	90	81	50-150	11
Phenanthrene	mg/kg (ppm)	0.83	0.12	94	85	10-170	10
Anthracene	mg/kg (ppm)	0.83	0.018	91	91	50-150	0
Fluoranthene	mg/kg (ppm)	0.83	0.22	100 b	82 b	10-203	20 b
Pyrene	mg/kg (ppm)	0.83	0.20	100 b	82 b	10-208	20 b
Benz(a)anthracene	mg/kg (ppm)	0.83	0.081	98	90	37-146	9
Chrysene	mg/kg (ppm)	0.83	0.088	94	86	36-144	9
Benzo(a)pyrene	mg/kg (ppm)	0.83	0.099	98	91	40-150	7
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	0.12	101	94	45-157	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	0.040	98	96	50-150	2
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	0.077	87	85	24-145	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	0.012	90	91	31-137	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	0.081	83	81	14-141	2

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	89	61-102
2-Methylnaphthalene	mg/kg (ppm)	0.83	95	62-108
1-Methylnaphthalene	mg/kg (ppm)	0.83	95	62-108
Acenaphthylene	mg/kg (ppm)	0.83	95	61-111
Acenaphthene	mg/kg (ppm)	0.83	94	61-110
Fluorene	mg/kg (ppm)	0.83	94	62-114
Phenanthrene	mg/kg (ppm)	0.83	98	64-112
Anthracene	mg/kg (ppm)	0.83	96	63-111
Fluoranthene	mg/kg (ppm)	0.83	99	66-115
Pyrene	mg/kg (ppm)	0.83	100	65-112
Benz(a)anthracene	mg/kg (ppm)	0.83	97	64-116
Chrysene	mg/kg (ppm)	0.83	98	66-119
Benzo(a)pyrene	mg/kg (ppm)	0.83	98	62-116
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	100	61-118
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	99	65-119
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	88	64-130
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	90	67-131
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	87	67-126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 212252-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	109 vo	86	44-107	24 vo
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	118	91	38-124	26 vo

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	102	47-158
Aroclor 1260	mg/kg (ppm)	0.25	110	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 212303-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	93	92	44-107	1
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	99	98	38-124	1

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	114	47-158
Aroclor 1260	mg/kg (ppm)	0.25	116	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23

Date Received: 12/15/22

Project: 1355-21001-08, F&BI 212252

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 212108-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	<0.0035	66	62	50-150	6
Aroclor 1260	ug/L (ppb)	0.13	<0.0035	83	78	50-150	6

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	ug/L (ppb)	0.13	66	25-165
Aroclor 1260	ug/L (ppb)	0.13	83	25-163

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212852

SAMPLE CHAIN OF CUSTODY

12/15/22

N3/I1

Page # 4 of 3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@g-evren-nw.com

SAMPLERS (signature) Jordan M. Allen

PROJECT NAME

4355-21001-08

PO #

REMARKS

INVOICE TO

Project Specific RLS - Yes / No

TURNAROUND TIME
Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	PCB Congeners	PAHs	REDM VOCs	Notes
B32-0.5	01	12-14-22	9:18	Soil	1						X	X			per LG 12/28/22 mc
B32-1.5	02	12-14-22	9:17	Soil	1						X				
B32-2.5	03	12-14-22	9:14	Soil	1						X				
B34-0.5	04	12-14-22	9:37	Soil	1						X				
B34-1.5	05	12-14-22	9:36	Soil	1						X				
B34-2.5	06	12-14-22	9:34	Soil	1						X				
B35-0.5	07A-E	12-14-22	9:50	Soil	5	X	X				X		X	X	
B35-1.5	08	12-14-22	9:56	Soil	1	X	X				X				
B35-2.5	09	12-14-22	9:44	Soil	1						X				
B36-0.5	10	12-14-22	10:52	Soil	1						X	X			

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: Jordan Allen

Jordan Allen

EVREN Northwest

12-14-22

12:00

Received by: [Signature]

ANHPHAN

ESB

12/15/22

10:40

Relinquished by:

Received by:

Samples received at

3

OC

ANS 212252

SAMPLE CHAIN OF CUSTODY

12/15/22

N3/IT1

Send Report To Lynn Green

Company Even NorthwestAddress VO. Box 14488City, State, ZIP Portland, OR 97293Phone # (503) 452-5562 ^{Even} ~~Even~~ ^{lynn@green-nw.com}SAMPLES (signature) [Signature]PROJECT NAME/NO. 1355-21001-08

PO #

REMARKS

Page # 2 of 3

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

ANALYSES REQUESTED

Notes

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	PCBs, PCBs 8082	
B36-1.5	11	12-14-22	10:46	Soil	2							
B36-2.5	12	12-14-22	10:46	Soil	1							
B37-0.5	13	12-14-22	11:06	Soil	1							
B37-1.5	14	12-14-22	11:04	Soil	1							
B37-2.5	15	12-14-22	11:07	Soil	1							
B38-0.5	16	12-14-22	11:34	Soil	1							
B38-1.5	17	12-14-22	11:36	Soil	1							
B38-2.5	18	12-14-22	11:28	Soil	1							
B39-0.5	19	12-14-22	12:00	Soil	1							
B39-1.5	20	12-14-22	11:57	Soil	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Received by:

Ph. (206) 285-8282

Relinquished by:

Fax (206) 283-5044

Received by:

AMH PHAN

F&B

Samples received at 3:00

W

Phone # (453) 452-5561 ^{Cell} Ext # 452-5561 lynn@ever-nm.com

return samples

SAMPLE Diet 03AL
30 days after

☐ Will call with instructions:

0171

STED

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Notes

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Age Group	2006	2007	2008
18-29	~95	~95	~95
30-49	~90	~90	~90
50-69	~85	~85	~85
70+	~80	~80	~80

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NY	DATE	TIME

$$52-14=38$$

10-11-12	10-11-12
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12/15/22	10
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[illegible][illegible]

Received at 2

to parties

RECEIVED

Test Report

January 10, 2023

FAL Project: 14852

Mr. Michael Erdahl
Friedman and Bruya, Inc.
3012 16th Ave. W
Seattle, WA 98119

Dear Mr. Erdahl,

The following results are associated with Frontier Analytical Laboratory project **14852**. This corresponds to your project number **212252** and purchase order number **D-85**. Three soil samples were received on 12/29/2022 in good condition. Per your request, all three samples were extracted and analyzed by EPA Method 1668 for all 209 polychlorinated biphenyl (PCB) congeners. Friedman and Bruya, Inc. requested a turnaround time of fifteen business days for project **14852**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed are specifically for the samples referenced in this report only. These results meet all NELAP requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**, our State of California ELAP certificate number is **2934** and our State of Washington certificate number is **C844**. This report along with the associated EDD has been emailed to you. A hardcopy of this report will not be sent to you unless specifically requested.

If you have any questions regarding project **14852**, please feel free to contact me at (916) 934-0900.

Sincerely,



Bradley B. Silverbush
Laboratory Director

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **14852**

Received on: **12/29/2022**

Project Due: **01/23/2023** Storage: **R-4**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
14852-001-SA	0	212252	B32-0.5	EPA 1668 PCB	Soil	12/14/2022	09:18 am	12/14/2023
14852-002-SA	0	212252	B36-0.5	EPA 1668 PCB	Soil	12/14/2022	10:51 am	12/14/2023
14852-003-SA	0	212252	B37-1.5	EPA 1668 PCB	Soil	12/14/2022	11:04 am	12/14/2023

EPA Method 1668 PCBs



FAL ID: 14852-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023
Total Conc: 0.0

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.388			PCB-51	ND	0.607		
PCB-2	ND	0.630			PCB-52	ND	0.605	C	69
PCB-3	ND	0.808			PCB-53	ND	0.620		
PCB-4	ND	0.797			PCB-54	ND	0.490		
PCB-5	ND	1.06			PCB-55	ND	0.428		
PCB-6	ND	1.01			PCB-56	ND	1.14	C	60
PCB-7	ND	1.08			PCB-57	ND	0.484		
PCB-8	ND	1.05			PCB-58	ND	0.475		
PCB-9	ND	1.09			PCB-59	-	-	C042	42
PCB-10	ND	1.02			PCB-60	-	-	C056	56
PCB-11	ND	1.20			PCB-61	ND	0.500	C	70
PCB-12	ND	1.12			PCB-62	ND	0.478		
PCB-13	ND	1.13			PCB-63	ND	0.435		
PCB-14	ND	1.04			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.75			PCB-65	ND	0.470		
PCB-16	ND	0.736			PCB-66	ND	0.428	C	76
PCB-17	ND	0.765			PCB-67	ND	0.460		
PCB-18	ND	0.872			PCB-68	ND	0.441		
PCB-19	ND	0.861			PCB-69	-	-	C052	52
PCB-20	ND	1.31			PCB-70	-	-	C061	61
PCB-21	-	-	C020	21/33 20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	1.20			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.29			PCB-73	ND	0.467		
PCB-24	ND	0.602			PCB-74	ND	0.468		
PCB-25	ND	1.31			PCB-75	-	-	C048	48
PCB-26	ND	1.38			PCB-76	-	-	C066	66
PCB-27	ND	0.602			PCB-77	ND	1.17		
PCB-28	ND	0.941			PCB-78	ND	1.05		
PCB-29	ND	1.31			PCB-79	ND	1.03		
PCB-30	ND	0.585			PCB-80	ND	0.378		
PCB-31	ND	1.38			PCB-81	ND	0.916		
PCB-32	ND	0.683			PCB-82	ND	1.12		
PCB-33	-	-	C020	20/21	PCB-83	ND	0.880	C	112
PCB-34	ND	1.41			PCB-84	ND	1.08	C	92
PCB-35	ND	1.41			PCB-85	ND	0.760	C	116
PCB-36	ND	1.35			PCB-86	ND	1.10		
PCB-37	ND	1.33			PCB-87	ND	0.766	C	117/125
PCB-38	ND	1.30			PCB-88	ND	0.706	C	91
PCB-39	ND	1.34			PCB-89	ND	1.03		
PCB-40	ND	0.781			PCB-90	ND	0.919	C	101
PCB-41	ND	0.503	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.568	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.657	C	49	PCB-93	ND	0.749		
PCB-44	ND	0.744			PCB-94	ND	0.850		
PCB-45	ND	0.719			PCB-95	ND	0.735		
PCB-46	ND	0.734			PCB-96	ND	0.591		
PCB-47	ND	0.638			PCB-97	ND	1.07		
PCB-48	ND	0.507	C	75	PCB-98	ND	0.829	C	102
PCB-49	-	-	C043	43	PCB-99	ND	0.870		
PCB-50	ND	0.616			PCB-100	ND	0.688		

EPA Method 1668 PCBs



FAL ID: 14852-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.925		
PCB-102	-	-	C098	98	PCB-152	ND	0.519		
PCB-103	ND	0.705			PCB-153	ND	0.761		
PCB-104	ND	0.579			PCB-154	ND	0.571		
PCB-105	ND	0.684			PCB-155	ND	0.494		
PCB-106	ND	0.642	C	118	PCB-156	ND	0.658		
PCB-107	ND	0.657	C	108	PCB-157	ND	0.662		
PCB-108	-	-	C107	107	PCB-158	ND	0.661	C	160
PCB-109	ND	0.741			PCB-159	ND	0.633		
PCB-110	ND	0.671			PCB-160	-	-	C158	158
PCB-111	ND	0.703	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.743			PCB-163	-	-	C138	138/164
PCB-114	ND	0.644			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.669		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.654		
PCB-118	-	-	C	106	PCB-168	ND	0.667		
PCB-119	ND	0.714			PCB-169	ND	0.704		
PCB-120	ND	0.657			PCB-170	ND	0.763		
PCB-121	ND	0.585			PCB-171	ND	0.728		
PCB-122	ND	0.622			PCB-172	ND	0.756		
PCB-123	ND	0.621			PCB-173	ND	0.798		
PCB-124	ND	0.667			PCB-174	ND	0.737		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.702		
PCB-126	ND	1.15			PCB-176	ND	0.537		
PCB-127	ND	0.660			PCB-177	ND	0.767		
PCB-128	ND	0.780	C	162	PCB-178	ND	0.750		
PCB-129	ND	1.02			PCB-179	ND	0.530		
PCB-130	ND	1.02			PCB-180	ND	0.722		
PCB-131	ND	0.964	C	133	PCB-181	ND	0.666		
PCB-132	ND	0.789	C	161	PCB-182	ND	0.654	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.652		
PCB-134	ND	1.01	C	143	PCB-184	ND	0.508		
PCB-135	ND	0.961			PCB-185	ND	0.703		
PCB-136	ND	0.513			PCB-186	ND	0.544		
PCB-137	ND	0.821			PCB-187	-	-	C182	182
PCB-138	ND	0.721	C	163/164	PCB-188	ND	0.581		
PCB-139	ND	0.821	C	149	PCB-189	ND	0.544		
PCB-140	ND	0.817			PCB-190	ND	0.541		
PCB-141	ND	0.862			PCB-191	ND	0.540		
PCB-142	ND	0.992			PCB-192	ND	0.566		
PCB-143	-	-	C134	134	PCB-193	ND	0.522		
PCB-144	ND	0.813			PCB-194	ND	0.629		
PCB-145	ND	0.511			PCB-195	ND	0.708		
PCB-146	ND	0.733	C	165	PCB-196	ND	0.734	C	203
PCB-147	ND	0.860			PCB-197	ND	0.584		
PCB-148	ND	0.660			PCB-198	ND	0.767		
PCB-149	-	-	C139	139	PCB-199	ND	0.796		
PCB-150	ND	0.519			PCB-200	ND	0.582		

EPA Method 1668 PCBs



FAL ID: 14852-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.592		
PCB-202	ND	0.634		
PCB-203	-	-	C196	196
PCB-204	ND	0.601		
PCB-205	ND	0.514		
PCB-206	ND	0.699		
PCB-207	ND	0.473		
PCB-208	ND	0.426		
PCB-209	ND	0.486		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.0	5.00 - 145	
13C-PCB-3	66.0	5.00 - 145	
13C-PCB-4	82.2	5.00 - 145	
13C-PCB-15	52.8	5.00 - 145	
13C-PCB-19	66.9	5.00 - 145	
13C-PCB-37	52.0	5.00 - 145	
13C-PCB-54	75.4	5.00 - 145	
13C-PCB-77	58.0	10.0 - 145	
13C-PCB-81	55.0	10.0 - 145	
13C-PCB-104	63.0	10.0 - 145	
13C-PCB-105	67.0	10.0 - 145	
13C-PCB-114	68.3	10.0 - 145	
13C-PCB-118	72.3	10.0 - 145	
13C-PCB-123	66.0	10.0 - 145	
13C-PCB-126	58.8	10.0 - 145	
13C-PCB-155	71.8	10.0 - 145	
13C-PCB-156	64.2	10.0 - 145	
13C-PCB-157	67.9	10.0 - 145	
13C-PCB-167	66.4	10.0 - 145	
13C-PCB-169	61.6	10.0 - 145	
13C-PCB-188	68.7	10.0 - 145	
13C-PCB-189	63.4	10.0 - 145	
13C-PCB-202	66.8	10.0 - 145	
13C-PCB-205	63.0	10.0 - 145	
13C-PCB-206	61.7	10.0 - 145	
13C-PCB-208	63.0	10.0 - 145	
13C-PCB-209	58.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	62.5	5.00 - 145	
13C-PCB-111	58.2	10.0 - 145	
13C-PCB-178	63.7	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 1/10/2023

Reviewed By: 
Date: 1/10/2023

EPA Method 1668 PCBs



FAL ID: 14852-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: ng/ml

Acquired: 01-06-2023

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	102	60.0 - 135		13C-PCB-1	94.1	15.0 - 145	
PCB-3	105	60.0 - 135		13C-PCB-3	81.7	15.0 - 145	
PCB-4	114	60.0 - 135		13C-PCB-4	92.8	15.0 - 145	
PCB-15	94.4	60.0 - 135		13C-PCB-15	79.5	15.0 - 145	
PCB-19	104	60.0 - 135		13C-PCB-19	86.9	15.0 - 145	
PCB-37	128	60.0 - 135		13C-PCB-37	63.1	15.0 - 145	
PCB-54	103	60.0 - 135		13C-PCB-54	96.8	15.0 - 145	
PCB-77	113	60.0 - 135		13C-PCB-77	69.8	40.0 - 145	
PCB-81	107	60.0 - 135		13C-PCB-81	72.3	40.0 - 145	
PCB-104	110	60.0 - 135		13C-PCB-104	75.4	40.0 - 145	
PCB-105	99.0	60.0 - 135		13C-PCB-105	84.4	40.0 - 145	
PCB-114	105	60.0 - 135		13C-PCB-114	87.7	40.0 - 145	
PCB-118	106	60.0 - 135		13C-PCB-118	88.1	40.0 - 145	
PCB-123	105	60.0 - 135		13C-PCB-123	83.9	40.0 - 145	
PCB-126	107	60.0 - 135		13C-PCB-126	78.2	40.0 - 145	
PCB-155	108	60.0 - 135		13C-PCB-155	86.6	40.0 - 145	
PCB-156	99.0	60.0 - 135		13C-PCB-156	98.3	40.0 - 145	
PCB-157	102	60.0 - 135		13C-PCB-157	87.6	40.0 - 145	
PCB-167	108	60.0 - 135		13C-PCB-167	79.3	40.0 - 145	
PCB-169	110	60.0 - 135		13C-PCB-169	79.1	40.0 - 145	
PCB-188	112	60.0 - 135		13C-PCB-188	85.6	40.0 - 145	
PCB-189	110	60.0 - 135		13C-PCB-189	79.4	40.0 - 145	
PCB-202	107	60.0 - 135		13C-PCB-202	92.6	40.0 - 145	
PCB-205	107	60.0 - 135		13C-PCB-205	75.6	40.0 - 145	
PCB-206	99.4	60.0 - 135		13C-PCB-206	76.6	40.0 - 145	
PCB-208	103	60.0 - 135		13C-PCB-208	78.0	40.0 - 145	
PCB-209	95.0	60.0 - 135		13C-PCB-209	74.1	40.0 - 145	
				Cleanup Surrogate	% Recovery	QC limits	Qual
				13C-PCB-28	82.3	15.0 - 145	
				13C-PCB-111	72.6	40.0 - 145	
				13C-PCB-178	81.4	40.0 - 145	

Analyst: 

Date: 1/10/2023

Reviewed By: 

Date: 1/10/2023

EPA Method 1668 PCBs



FAL ID: 14852-001-SA
Client ID: B32-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 5.01 g
% Solids: 89.53

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023
Total Conc: 67200

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	9.59	-			PCB-51	47.2	-		
PCB-2	4.78	-			PCB-52	979	-	C	69
PCB-3	15.5	-			PCB-53	144	-		
PCB-4	91.7	-			PCB-54	3.12	-	J	
PCB-5	12.4	-			PCB-55	24.8	-		
PCB-6	27.2	-			PCB-56	810	-	C	60
PCB-7	5.79	-			PCB-57	5.30	-		
PCB-8	99.9	-			PCB-58	ND	1.50		
PCB-9	6.55	-			PCB-59	-	-	C042	42
PCB-10	10.2	-			PCB-60	-	-	C056	56
PCB-11	11.0	-			PCB-61	887	-	C	70
PCB-12	16.0	-			PCB-62	ND	1.51		
PCB-13	14.9	-			PCB-63	32.6	-		
PCB-14	ND	1.38			PCB-64	-	-	C041	41/71/72
PCB-15	350	-			PCB-65	ND	1.48		
PCB-16	291	-			PCB-66	876	-	C	76
PCB-17	355	-			PCB-67	32.3	-		
PCB-18	966	-			PCB-68	ND	1.40		
PCB-19	103	-			PCB-69	-	-	C052	52
PCB-20	293	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	364	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.75			PCB-73	ND	1.48		
PCB-24	51.4	-			PCB-74	436	-		
PCB-25	65.7	-			PCB-75	-	-	C048	48
PCB-26	190	-			PCB-76	-	-	C066	66
PCB-27	46.9	-			PCB-77	101	-		
PCB-28	1100	-			PCB-78	2.97	-	J	
PCB-29	9.07	-			PCB-79	7.28	-		
PCB-30	ND	1.25			PCB-80	ND	1.19		
PCB-31	636	-			PCB-81	19.3	-		
PCB-32	291	-			PCB-82	138	-		
PCB-33	-	-	C020	20/21	PCB-83	47.6	-	C	112
PCB-34	6.02	-			PCB-84	544	-	C	92
PCB-35	16.8	-			PCB-85	177	-	C	116
PCB-36	ND	1.85			PCB-86	ND	11.6		
PCB-37	420	-			PCB-87	414	-	C	117/125
PCB-38	6.81	-			PCB-88	123	-	C	91
PCB-39	ND	1.83			PCB-89	25.0	-		
PCB-40	146	-			PCB-90	1700	-	C	101
PCB-41	755	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	307	-	C	59	PCB-92	-	-	C084	84
PCB-43	700	-	C	49	PCB-93	ND	1.77		
PCB-44	763	-			PCB-94	6.85	-		
PCB-45	165	-			PCB-95	1240	-		
PCB-46	65.4	-			PCB-96	10.9	-		
PCB-47	254	-			PCB-97	325	-		
PCB-48	213	-	C	75	PCB-98	ND	1.96	C	102
PCB-49	-	-	C043	43	PCB-99	421	-		
PCB-50	3.65	-	J		PCB-100	3.02	-	J	

EPA Method 1668 PCBs



FAL ID: 14852-001-SA
Client ID: B32-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 5.01 g
% Solids: 89.53

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1410	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.55		
PCB-103	8.31	-			PCB-153	4970	-		
PCB-104	ND	1.37			PCB-154	16.2	-		
PCB-105	314	-			PCB-155	ND	1.48		
PCB-106	816	-	C	118	PCB-156	222	-		
PCB-107	49.5	-	C	108	PCB-157	36.8	-		
PCB-108	-	-	C107	107	PCB-158	401	-	C	160
PCB-109	ND	7.86			PCB-159	61.5	-		
PCB-110	1310	-			PCB-160	-	-	C158	158
PCB-111	25.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.88			PCB-163	-	-	C138	138/164
PCB-114	32.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.61	-	J	
PCB-117	-	-	C087	87/125	PCB-167	111	-		
PCB-118	-	-	C	106	PCB-168	ND	1.30		
PCB-119	17.3	-			PCB-169	ND	1.51		
PCB-120	6.52	-			PCB-170	2080	-		
PCB-121	ND	1.38			PCB-171	682	-		
PCB-122	15.0	-			PCB-172	391	-		
PCB-123	10.8	-			PCB-173	41.0	-		
PCB-124	61.8	-			PCB-174	2760	-		
PCB-125	-	-	C087	87/117	PCB-175	104	-		
PCB-126	8.81	-			PCB-176	342	-		
PCB-127	ND	1.62			PCB-177	1560	-		
PCB-128	358	-	C	162	PCB-178	502	-		
PCB-129	84.6	-			PCB-179	1080	-		
PCB-130	172	-			PCB-180	6040	-		
PCB-131	71.1	-	C	133	PCB-181	ND	1.67		
PCB-132	843	-	C	161	PCB-182	3160	-	C	187
PCB-133	-	-	C131	131	PCB-183	1500	-		
PCB-134	162	-	C	143	PCB-184	ND	1.27		
PCB-135	579	-			PCB-185	293	-		
PCB-136	605	-			PCB-186	ND	1.36		
PCB-137	67.2	-			PCB-187	-	-	C182	182
PCB-138	4330	-	C	163/164	PCB-188	ND	1.43		
PCB-139	3850	-	C	149	PCB-189	78.2	-		
PCB-140	ND	1.59			PCB-190	401	-		
PCB-141	1040	-			PCB-191	93.7	-		
PCB-142	ND	1.94			PCB-192	ND	1.42		
PCB-143	-	-	C134	134	PCB-193	269	-		
PCB-144	224	-			PCB-194	863	-		
PCB-145	ND	1.53			PCB-195	594	-		
PCB-146	532	-	C	165	PCB-196	939	-	C	203
PCB-147	20.9	-			PCB-197	36.6	-		
PCB-148	ND	1.97			PCB-198	32.8	-		
PCB-149	-	-	C139	139	PCB-199	757	-		
PCB-150	ND	1.55			PCB-200	110	-		

EPA Method 1668 PCBs



FAL ID: 14852-001-SA
Client ID: B32-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 5.01 g
% Solids: 89.53

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	113	-		
PCB-202	165	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.93		
PCB-205	57.7	-		
PCB-206	267	-		
PCB-207	34.5	-		
PCB-208	67.5	-		
PCB-209	119	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	78.1	5.00 - 145	
13C-PCB-3	79.4	5.00 - 145	
13C-PCB-4	80.2	5.00 - 145	
13C-PCB-15	87.1	5.00 - 145	
13C-PCB-19	68.9	5.00 - 145	
13C-PCB-37	71.1	5.00 - 145	
13C-PCB-54	78.6	5.00 - 145	
13C-PCB-77	77.4	10.0 - 145	
13C-PCB-81	78.1	10.0 - 145	
13C-PCB-104	78.8	10.0 - 145	
13C-PCB-105	79.4	10.0 - 145	
13C-PCB-114	80.5	10.0 - 145	
13C-PCB-118	80.4	10.0 - 145	
13C-PCB-123	80.8	10.0 - 145	
13C-PCB-126	73.5	10.0 - 145	
13C-PCB-155	75.4	10.0 - 145	
13C-PCB-156	82.9	10.0 - 145	
13C-PCB-157	84.7	10.0 - 145	
13C-PCB-167	85.9	10.0 - 145	
13C-PCB-169	69.5	10.0 - 145	
13C-PCB-188	77.8	10.0 - 145	
13C-PCB-189	57.6	10.0 - 145	
13C-PCB-202	77.4	10.0 - 145	
13C-PCB-205	85.4	10.0 - 145	
13C-PCB-206	116	10.0 - 145	
13C-PCB-208	146	10.0 - 145	
13C-PCB-209	117	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	72.1	5.00 - 145	
13C-PCB-111	79.4	10.0 - 145	
13C-PCB-178	76.5	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 1/10/2023

Reviewed By: 
Date: 1/10/2023

EPA Method 1668 PCBs



FAL ID: 14852-002-SA
Client ID: B36-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 84.78

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023
Total Conc: 8940000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	31.2	-			PCB-51	49.5	-		
PCB-2	11.1	-			PCB-52	23300	-	C	69
PCB-3	59.9	-			PCB-53	415	-		
PCB-4	35.0	-			PCB-54	7.30	-		
PCB-5	16.7	-			PCB-55	104	-		
PCB-6	33.9	-			PCB-56	1740	-	C	60
PCB-7	10.1	-			PCB-57	15.3	-		
PCB-8	142	-			PCB-58	ND	1.46		
PCB-9	8.80	-			PCB-59	-	-	C042	42
PCB-10	3.79	-			PCB-60	-	-	C056	56
PCB-11	9.85	-			PCB-61	8280	-	C	70
PCB-12	22.2	-			PCB-62	ND	1.47		
PCB-13	13.2	-			PCB-63	73.9	-		
PCB-14	ND	1.03			PCB-64	-	-	C041	41/71/72
PCB-15	242	-			PCB-65	ND	1.45		
PCB-16	58.6	-			PCB-66	10700	-	C	76
PCB-17	55.6	-			PCB-67	90.9	-		
PCB-18	134	-			PCB-68	ND	1.36		
PCB-19	17.3	-			PCB-69	-	-	C052	52
PCB-20	206	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	109	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.41			PCB-73	ND	1.44		
PCB-24	11.7	-			PCB-74	1490	-		
PCB-25	33.4	-			PCB-75	-	-	C048	48
PCB-26	78.6	-			PCB-76	-	-	C066	66
PCB-27	11.2	-			PCB-77	856	-		
PCB-28	321	-			PCB-78	72.6	-		
PCB-29	3.11	-			PCB-79	241	-		
PCB-30	ND	0.953			PCB-80	ND	1.16		
PCB-31	431	-			PCB-81	1080	-		
PCB-32	65.5	-			PCB-82	4130	-		
PCB-33	-	-	C020	20/21	PCB-83	1850	-	C	112
PCB-34	ND	1.54			PCB-84	56400	-	C	92
PCB-35	17.4	-			PCB-85	5310	-	C	116
PCB-36	ND	1.48			PCB-86	ND	1.73		
PCB-37	241	-			PCB-87	38300	-	C	117/125
PCB-38	10.2	-			PCB-88	3530	-	C	91
PCB-39	ND	1.47			PCB-89	352	-		
PCB-40	256	-			PCB-90	336000	-	C	101
PCB-41	2050	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	565	-	C	59	PCB-92	-	-	C084	84
PCB-43	2980	-	C	49	PCB-93	ND	0.509		
PCB-44	4530	-			PCB-94	128	-		
PCB-45	232	-			PCB-95	242000	-		
PCB-46	64.1	-			PCB-96	194	-		
PCB-47	669	-			PCB-97	17400	-		
PCB-48	193	-	C	75	PCB-98	ND	0.563	C	102
PCB-49	-	-	C043	43	PCB-99	14200	-		
PCB-50	1.99	-	J		PCB-100	47.1	-		

EPA Method 1668 PCBs



FAL ID: 14852-002-SA
Client ID: B36-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 84.78

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	320000	-		
PCB-102	-	-	C098	98	PCB-152	59.6	-		
PCB-103	142	-			PCB-153	707000	-		
PCB-104	ND	0.393			PCB-154	526	-		
PCB-105	22800	-			PCB-155	ND	0.989		
PCB-106	76900	-	C	118	PCB-156	45200	-		
PCB-107	2350	-	C	108	PCB-157	3250	-		
PCB-108	-	-	C107	107	PCB-158	81100	-	C	160
PCB-109	ND	1.17			PCB-159	10300	-		
PCB-110	152000	-			PCB-160	-	-	C158	158
PCB-111	770	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.17			PCB-163	-	-	C138	138/164
PCB-114	472	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2760	-		
PCB-117	-	-	C087	87/125	PCB-167	19800	-		
PCB-118	-	-	C	106	PCB-168	ND	1.03		
PCB-119	623	-			PCB-169	27.6	-		
PCB-120	1480	-			PCB-170	372000	-		
PCB-121	ND	0.397			PCB-171	136000	-		
PCB-122	500	-			PCB-172	79300	-		
PCB-123	2590	-			PCB-173	10500	-		
PCB-124	3400	-			PCB-174	470000	-		
PCB-125	-	-	C087	87/117	PCB-175	15900	-		
PCB-126	534	-			PCB-176	72300	-		
PCB-127	ND	1.43			PCB-177	277000	-		
PCB-128	53900	-	C	162	PCB-178	99800	-		
PCB-129	13600	-			PCB-179	209000	-		
PCB-130	19000	-			PCB-180	799000	-		
PCB-131	13700	-	C	133	PCB-181	ND	1.04		
PCB-132	238000	-	C	161	PCB-182	500000	-	C	187
PCB-133	-	-	C131	131	PCB-183	285000	-		
PCB-134	35900	-	C	143	PCB-184	51.5	-		
PCB-135	134000	-			PCB-185	61700	-		
PCB-136	155000	-			PCB-186	ND	0.847		
PCB-137	10900	-			PCB-187	-	-	C182	182
PCB-138	642000	-	C	163/164	PCB-188	62.7	-		
PCB-139	648000	-	C	149	PCB-189	15100	-		
PCB-140	ND	1.26			PCB-190	88800	-		
PCB-141	240000	-			PCB-191	19200	-		
PCB-142	ND	1.53			PCB-192	ND	0.881		
PCB-143	-	-	C134	134	PCB-193	50600	-		
PCB-144	56900	-			PCB-194	144000	-		
PCB-145	21.8	-			PCB-195	110000	-		
PCB-146	104000	-	C	165	PCB-196	194000	-	C	203
PCB-147	ND	1.33			PCB-197	8150	-		
PCB-148	ND	1.32			PCB-198	6190	-		
PCB-149	-	-	C139	139	PCB-199	167000	-		
PCB-150	66.7	-			PCB-200	26800	-		

EPA Method 1668 PCBs



FAL ID: 14852-002-SA
Client ID: B36-0.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 84.78

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	27000	-		
PCB-202	33900	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.36		
PCB-205	10800	-		
PCB-206	37900	-		
PCB-207	6150	-		
PCB-208	6670	-		
PCB-209	1770	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.4	5.00 - 145	
13C-PCB-3	86.7	5.00 - 145	
13C-PCB-4	86.8	5.00 - 145	
13C-PCB-15	94.0	5.00 - 145	
13C-PCB-19	81.8	5.00 - 145	
13C-PCB-37	83.7	5.00 - 145	
13C-PCB-54	74.4	5.00 - 145	
13C-PCB-77	84.1	10.0 - 145	
13C-PCB-81	84.3	10.0 - 145	
13C-PCB-104	72.6	10.0 - 145	
13C-PCB-105	86.8	10.0 - 145	
13C-PCB-114	97.0	10.0 - 145	
13C-PCB-118	75.1	10.0 - 145	
13C-PCB-123	97.1	10.0 - 145	
13C-PCB-126	97.2	10.0 - 145	
13C-PCB-155	85.3	10.0 - 145	
13C-PCB-156	93.4	10.0 - 145	
13C-PCB-157	98.0	10.0 - 145	
13C-PCB-167	97.8	10.0 - 145	
13C-PCB-169	87.9	10.0 - 145	
13C-PCB-188	88.6	10.0 - 145	
13C-PCB-189	76.5	10.0 - 145	
13C-PCB-202	92.2	10.0 - 145	
13C-PCB-205	105	10.0 - 145	
13C-PCB-206	94.9	10.0 - 145	
13C-PCB-208	139	10.0 - 145	
13C-PCB-209	86.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	75.7	5.00 - 145	
13C-PCB-111	78.3	10.0 - 145	
13C-PCB-178	89.9	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 1/10/2023

Reviewed By: 
Date: 1/10/2023

EPA Method 1668 PCBs



FAL ID: 14852-003-SA
Client ID: B37-1.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 82.06

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023
Total Conc: 542000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	23.2	-			PCB-51	19.1	-		
PCB-2	25.8	-			PCB-52	2980	-	C	69
PCB-3	35.5	-			PCB-53	120	-		
PCB-4	29.9	-			PCB-54	2.01	-		
PCB-5	4.89	-			PCB-55	59.4	-		
PCB-6	17.9	-			PCB-56	613	-	C	60
PCB-7	7.71	-			PCB-57	4.46	-		
PCB-8	68.2	-			PCB-58	ND	0.918		
PCB-9	4.88	-			PCB-59	-	-	C042	42
PCB-10	2.48	-			PCB-60	-	-	C056	56
PCB-11	40.9	-			PCB-61	1930	-	C	70
PCB-12	16.2	-			PCB-62	ND	0.924		
PCB-13	12.6	-			PCB-63	26.8	-		
PCB-14	ND	0.821			PCB-64	-	-	C041	41/71/72
PCB-15	114	-			PCB-65	ND	0.908		
PCB-16	32.5	-			PCB-66	1300	-	C	76
PCB-17	46.3	-			PCB-67	16.0	-		
PCB-18	95.7	-			PCB-68	7.07	-		
PCB-19	13.4	-			PCB-69	-	-	C052	52
PCB-20	137	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	80.1	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.30			PCB-73	ND	0.903		
PCB-24	6.26	-			PCB-74	454	-		
PCB-25	20.0	-			PCB-75	-	-	C048	48
PCB-26	38.2	-			PCB-76	-	-	C066	66
PCB-27	6.65	-			PCB-77	267	-		
PCB-28	183	-			PCB-78	26.7	-		
PCB-29	2.20	-			PCB-79	77.3	-		
PCB-30	ND	0.813			PCB-80	ND	0.730		
PCB-31	229	-			PCB-81	138	-		
PCB-32	44.3	-			PCB-82	1120	-		
PCB-33	-	-	C020	20/21	PCB-83	531	-	C	112
PCB-34	ND	1.43			PCB-84	6330	-	C	92
PCB-35	17.0	-			PCB-85	1690	-	C	116
PCB-36	ND	1.37			PCB-86	ND	1.48		
PCB-37	195	-			PCB-87	4340	-	C	117/125
PCB-38	9.05	-			PCB-88	1400	-	C	91
PCB-39	2.80	-			PCB-89	57.9	-		
PCB-40	82.1	-			PCB-90	16000	-	C	101
PCB-41	549	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	147	-	C	59	PCB-92	-	-	C084	84
PCB-43	782	-	C	49	PCB-93	ND	1.17		
PCB-44	1170	-			PCB-94	39.5	-		
PCB-45	66.6	-			PCB-95	14400	-		
PCB-46	27.3	-			PCB-96	50.8	-		
PCB-47	176	-			PCB-97	3340	-		
PCB-48	59.3	-	C	75	PCB-98	ND	1.29	C	102
PCB-49	-	-	C043	43	PCB-99	4450	-		
PCB-50	ND	1.19			PCB-100	22.1	-		

EPA Method 1668 PCBs



FAL ID: 14852-003-SA
Client ID: B37-1.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 82.06

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	13700	-		
PCB-102	-	-	C098	98	PCB-152	20.5	-		
PCB-103	51.2	-			PCB-153	43300	-		
PCB-104	ND	0.903			PCB-154	160	-		
PCB-105	3970	-			PCB-155	ND	1.04		
PCB-106	9730	-	C	118	PCB-156	2560	-		
PCB-107	614	-	C	108	PCB-157	525	-		
PCB-108	-	-	C107	107	PCB-158	4130	-	C	160
PCB-109	ND	1.00			PCB-159	541	-		
PCB-110	17500	-			PCB-160	-	-	C158	158
PCB-111	129	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.00			PCB-163	-	-	C138	138/164
PCB-114	165	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	60.3	-		
PCB-117	-	-	C087	87/125	PCB-167	1280	-		
PCB-118	-	-	C	106	PCB-168	ND	1.09		
PCB-119	170	-			PCB-169	ND	32.3		
PCB-120	72.3	-			PCB-170	17800	-		
PCB-121	ND	0.912			PCB-171	5970	-		
PCB-122	112	-			PCB-172	3620	-		
PCB-123	210	-			PCB-173	372	-		
PCB-124	698	-			PCB-174	25300	-		
PCB-125	-	-	C087	87/117	PCB-175	513	-		
PCB-126	112	-			PCB-176	2770	-		
PCB-127	ND	1.41			PCB-177	13800	-		
PCB-128	4960	-	C	162	PCB-178	4730	-		
PCB-129	1210	-			PCB-179	9420	-		
PCB-130	1880	-			PCB-180	51500	-		
PCB-131	897	-	C	133	PCB-181	ND	1.14		
PCB-132	13200	-	C	161	PCB-182	28800	-	C	187
PCB-133	-	-	C131	131	PCB-183	13000	-		
PCB-134	1980	-	C	143	PCB-184	13.4	-		
PCB-135	6510	-			PCB-185	2560	-		
PCB-136	6010	-			PCB-186	ND	0.930		
PCB-137	1310	-			PCB-187	-	-	C182	182
PCB-138	44700	-	C	163/164	PCB-188	20.3	-		
PCB-139	42300	-	C	149	PCB-189	670	-		
PCB-140	ND	1.33			PCB-190	3270	-		
PCB-141	10200	-			PCB-191	724	-		
PCB-142	ND	1.62			PCB-192	ND	0.968		
PCB-143	-	-	C134	134	PCB-193	2160	-		
PCB-144	2220	-			PCB-194	9130	-		
PCB-145	9.21	-			PCB-195	5580	-		
PCB-146	5590	-	C	165	PCB-196	8690	-	C	203
PCB-147	375	-			PCB-197	300	-		
PCB-148	ND	1.38			PCB-198	97.4	-		
PCB-149	-	-	C139	139	PCB-199	7350	-		
PCB-150	33.2	-			PCB-200	1060	-		

EPA Method 1668 PCBs



FAL ID: 14852-003-SA
Client ID: B37-1.5
Matrix: Soil
Batch No: X6328

Date Extracted: 01-05-2023
Date Received: 12-29-2022
Amount: 10.00 g
% Solids: 82.06

ICal: DAILY209FAL4-1-6-23
GC Column: DB1MS
Units: pg/g

Acquired: 01-06-2023

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1130	-		
PCB-202	2030	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.01		
PCB-205	479	-		
PCB-206	5250	-		
PCB-207	543	-		
PCB-208	1490	-		
PCB-209	2690	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.7	5.00 - 145	
13C-PCB-3	79.1	5.00 - 145	
13C-PCB-4	75.7	5.00 - 145	
13C-PCB-15	80.3	5.00 - 145	
13C-PCB-19	69.8	5.00 - 145	
13C-PCB-37	76.8	5.00 - 145	
13C-PCB-54	74.3	5.00 - 145	
13C-PCB-77	70.5	10.0 - 145	
13C-PCB-81	74.0	10.0 - 145	
13C-PCB-104	71.1	10.0 - 145	
13C-PCB-105	75.6	10.0 - 145	
13C-PCB-114	74.8	10.0 - 145	
13C-PCB-118	77.1	10.0 - 145	
13C-PCB-123	80.0	10.0 - 145	
13C-PCB-126	72.7	10.0 - 145	
13C-PCB-155	73.3	10.0 - 145	
13C-PCB-156	77.1	10.0 - 145	
13C-PCB-157	74.8	10.0 - 145	
13C-PCB-167	79.7	10.0 - 145	
13C-PCB-169	62.9	10.0 - 145	
13C-PCB-188	78.6	10.0 - 145	
13C-PCB-189	45.9	10.0 - 145	
13C-PCB-202	75.2	10.0 - 145	
13C-PCB-205	74.5	10.0 - 145	
13C-PCB-206	82.3	10.0 - 145	
13C-PCB-208	117	10.0 - 145	
13C-PCB-209	73.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	76.2	5.00 - 145	
13C-PCB-111	73.9	10.0 - 145	
13C-PCB-178	77.8	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 1/10/2023

Reviewed By: 
Date: 1/10/2023

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR <u>Frontier</u>	
PROJECT NAME/NO. 212252	PO # D-85
REMARKS Please Email Results	

Page # 1 of 1

TURNAROUND TIME
☒ Standard TAT
RUSH _____
Rush charges authorized by: _____
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED										Notes
						Dioxins/Furans	EPH	VPH	PCB Congener							
B32-0.5		12/14/22	0913	soil	1				x							
B36-0.5		↓	1051	↓	1				x							
B37-1.5		↓	1104	↓	1				x							

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michael Erdahl	Friedman & Bruya	12/18/22	0854
Received by:	Kathy Zipp	Frontier	12/29/22	1155
Relinquished by: _____				
Received by: _____				

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **14852**

Client:	Friedman & Bruya, Inc.
Client Project ID:	212252
Date Received:	12/29/2022
Time Received:	11:55 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	0
Storage Location:	R-4

Method of Delivery:	Fed-Ex
Tracking Number:	817519259875
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A

Anomalies or additional comments:

Please note that the samples were received in clear glass jars. NELAP requires samples be received in amber glass bottles or jars. Although this anomaly will not affect your results, we are required by NELAP to make a note of it. We will proceed with analysis unless directed otherwise by you.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 28, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included is the amended report from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211172 project. The sample IDs have been updated.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1123R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 23, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211172 project. There are 43 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1123R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 11, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 211172 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
211172 -01	EB08-0.5
211172 -02	EB08-1.5
211172 -03	EB08-2.5
211172 -04	EB09-0.5
211172 -05	EB09-1.5
211172 -06	EB09-2.5
211172 -07	EB11-0.5
211172 -08	EB16-0.5
211172 -09	EB16-1.5
211172 -10	EB16-2.5
211172 -11	EB17-0.5
211172 -12	EB17-1.5
211172 -13	EB17-2.5
211172 -14	EB18-0.5
211172 -15	EB18-1.5
211172 -16	EB18-2.5
211172 -17	EB19-0.5
211172 -18	EB19-1.5
211172 -19	EB19-2.5
211172 -20	EB20-0.5
211172 -21	EB20-1.5
211172 -22	EB20-2.5
211172 -23	EB21-0.5
211172 -24	EB21-1.5
211172 -25	EB21-2.5
211172 -26	FD02
211172 -27	RINSATE02

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22
Date Received: 11/11/22
Project: 1355-21001-08, F&BI 211172
Date Extracted: 11/15/22
Date Analyzed: 11/15/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Gasoline Range</u>	Surrogate (% Recovery)
Laboratory ID		(Limit 50-150)
EB20-2.5 211172-22	<5	110
Method Blank 02-2717 MB	<5	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

Date Extracted: 11/14/22

Date Analyzed: 11/14/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Residual Range</u>	Surrogate
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
EB20-2.5	<50	<250	110
211172-22			
Method Blank	<50	<250	110
02-2780 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB08-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-01 1/6
Date Analyzed:	11/15/22	Data File:	111530.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.061
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB08-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-02 1/6
Date Analyzed:	11/15/22	Data File:	111531.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB08-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-03 1/6
Date Analyzed:	11/15/22	Data File:	111532.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB09-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-04 1/6
Date Analyzed:	11/15/22	Data File:	111533.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	13 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB09-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-04 1/1200
Date Analyzed:	11/18/22	Data File:	111745.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB09-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-05 1/6
Date Analyzed:	11/15/22	Data File:	111534.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.44
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB09-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-06 1/6
Date Analyzed:	11/15/22	Data File:	111535.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	67	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.055
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB11-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-07 1/6
Date Analyzed:	11/15/22	Data File:	111536.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	72	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	52 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB11-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-07 1/1200
Date Analyzed:	11/18/22	Data File:	111746.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	57

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB16-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-08 1/6
Date Analyzed:	11/15/22	Data File:	111537.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB16-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-09 1/6
Date Analyzed:	11/15/22	Data File:	111538.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB16-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-10 1/6
Date Analyzed:	11/16/22	Data File:	111542.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.043
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB17-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-11 1/6
Date Analyzed:	11/16/22	Data File:	111543.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.68
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB17-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-12 1/6
Date Analyzed:	11/16/22	Data File:	111544.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB17-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-13 1/6
Date Analyzed:	11/16/22	Data File:	111545.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.027
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB18-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-14 1/6
Date Analyzed:	11/16/22	Data File:	111546.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.024
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB18-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-15 1/6
Date Analyzed:	11/16/22	Data File:	111547.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB18-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-16 1/6
Date Analyzed:	11/16/22	Data File:	111548.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.88
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB19-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-17 1/6
Date Analyzed:	11/16/22	Data File:	111549.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.88 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB19-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-17 1/60
Date Analyzed:	11/18/22	Data File:	111747.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	1.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB19-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-18 1/6
Date Analyzed:	11/16/22	Data File:	111550.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.027
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB19-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-19 1/6
Date Analyzed:	11/16/22	Data File:	111551.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.73
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB20-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-20 1/6
Date Analyzed:	11/16/22	Data File:	111552.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.6 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB20-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-20 1/120
Date Analyzed:	11/18/22	Data File:	111748.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	2.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB20-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-21 1/6
Date Analyzed:	11/15/22	Data File:	111509.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.032
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB20-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-22 1/6
Date Analyzed:	11/15/22	Data File:	111510.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB21-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-23 1/6
Date Analyzed:	11/15/22	Data File:	111511.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.75
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB21-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-24 1/6
Date Analyzed:	11/15/22	Data File:	111512.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB21-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-25 1/6
Date Analyzed:	11/15/22	Data File:	111513.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.39
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	211172-26 1/6
Date Analyzed:	11/15/22	Data File:	111514.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	02-2781 mb 1/6
Date Analyzed:	11/15/22	Data File:	111528.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/14/22	Lab ID:	02-2782 mb 1/6
Date Analyzed:	11/15/22	Data File:	111507.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	RINSATE02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/17/22	Lab ID:	211172-27
Date Analyzed:	11/18/22	Data File:	111810.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	41	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	0.21
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211172
Date Extracted:	11/17/22	Lab ID:	02-2783 mb
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 211193-12 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 211094-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	<50	99	99	70-130	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	2,000	98	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 211172-03 1/6 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	93	88	29-125	6
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	99	92	25-137	7

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	96	55-137
Aroclor 1260	mg/kg (ppm)	0.25	99	51-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 211172-22 1/6 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	76	82	29-125	8
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	80	90	25-137	12

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	93	55-137
Aroclor 1260	mg/kg (ppm)	0.25	104	51-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211172

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	68	65	55-137	5
Aroclor 1260	mg/kg (ppm)	0.25	80	80	51-150	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

211172

SAMPLE CHAIN OF CUSTODY

11/11/22

C2/M3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@evren-nw.com

SAMPLERS (signature)

PROJECT NAME

4355-24001-08

PO #

REMARKS

INVOICE TO

Project Specific RLS - Yes / No

Page # 4 of 3

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
BOB-0.5	01	11-10-22	8:41	Soil	1							
BOB-1.5	02	11-10-22	8:44	Soil	1							
BOB-2.5	03	11-10-22	8:46	Soil	1							
BOB-0.5	04	11-10-22	9:02	Soil	1							
BOB-1.5	05	11-10-22	9:04	Soil	1							
BOB-2.5	06	11-10-22	9:06	Soil	1							
B11-0.5	07	11-10-22	12:58	Soil	1							
B16-0.5	08	11-10-22	15:12	Soil	1							
B16-1.5	09	11-10-22	15:14	Soil	1							
B16-2.5	10	11-10-22	15:16	Soil	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Jordan Morris

ANHPHAN

ENW

11-10-22

16:00

Received by:

Jill

ANHPHAN

F86

11/11/22

10:09

Relinquished by:

Jill

ANHPHAN

F86

11/11/22

10:09

Received by:

Jill

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Jill

ANHPHAN

F86

11/11/22

10:09

Received by:

Jill

2/11/22

SAMPLE CHAIN OF CUSTODY

11/11/22

C2/M3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@g@evren-nw.com

SAMPLERS (signature) *Jordan Mann*

PROJECT NAME

1355-22001-08

PO #

REMARKS

INVOICE TO

Project Specific RLS - Yes / No

Page # 2 of 3

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
E B17-0.5	11	11-10-22	14:54	Soil	1							
E B17-1.5	12	11-10-22	14:58	Soil	1							
E B17-2.5	13	11-10-22	15:02	Soil	1							
E B28-0.5	14	11-10-22	14:38	Soil	1							
E B28-1.5	15	11-10-22	14:32	Soil	1							
E B28-2.5	16	11-10-22	14:32	Soil	1							
E B49-0.5	17	11-10-22	14:22	Soil	1							
E B49-1.5	18	11-10-22	14:24	Soil	1							
E B49-2.5	19	11-10-22	14:25	Soil	1							
E B20-0.5	20	11-10-22	13:23	Soil	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *Jordan Mann*

Received by: *JM*

Relinquished by:

Received by:

Jordan Mann

EVREN

11-10-22 18:00

ANH PHAM

EVREN

11/11/22 10:09

Samples received at 20°C

2/11/22

SAMPLE CHAIN OF CUSTODY

u/11/22

C2/M3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@evren-nw.com

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of

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SAMPLERS (signature) Jordan Morris

PO #

PROJECT NAME 1355-24001-03

REMARKS

INVOICE TO

TURNAROUND TIME
Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B20-1.5	21	11-10-22	13:27	Soil	1											
B20-2.5	22	11-10-22	13:29	Soil	1											
B21-0.5	23	11-10-22	13:58	Soil	1											
B21-1.5	24	11-10-22	13:59	Soil	1											
B21-2.5	25	11-10-22	14:00	Soil	1											
FD02	26	11-10-22	13:34	Soil	1											
RAINAGE02	27	11-10-22	13:16	Water	1											

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: Jordan Morris

Received by: JMT

Relinquished by:

Received by:

Jordan Morris

ENVI

11-10-22

16:00

AMH PHAN

FRB

11/11/22

10:09

Sample received at 2:00

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 28, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included is the amended report from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211173 project. Per your request, the sample IDs have been updated.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1123R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 23, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211173 project. There are 45 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1123R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 11, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 211173 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
211173 -01	DU01-221109-IS-0.2
211173 -02	DU01-221109-IS-0.2-REP01
211173 -03	DU01-221109-IS-0.2-REP02
211173 -04	EB01-0.5
211173 -05	EB01-1.5
211173 -06	EB01-2.5
211173 -07	EB02-0.5
211173 -08	EB02-1.5
211173 -09	EB02-2.5
211173 -10	EB03-0.5
211173 -11	EB03-1.5
211173 -12	EB03-2.5
211173 -13	EB04-0.5
211173 -14	EB04-1.5
211173 -15	EB04-2.5
211173 -16	EB05-0.5
211173 -17	EB05-1.5
211173 -18	EB05-2.5
211173 -19	EB06-0.5
211173 -20	EB06-1.5
211173 -21	EB06-2.5
211173 -22	EB07-0.5
211173 -23	FD01
211173 -24	RINSATE01

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-01 1/6
Date Analyzed:	11/17/22	Data File:	111710.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	3.4 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-01 1/60
Date Analyzed:	11/18/22	Data File:	111819.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85 d	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1260	4.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-01 dup 1/6
Date Analyzed:	11/17/22	Data File:	111711.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	4.5 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-01 dup 1/60
Date Analyzed:	11/18/22	Data File:	111820.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	5.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-02 1/6
Date Analyzed:	11/17/22	Data File:	111712.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.1 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-02 1/60
Date Analyzed:	11/18/22	Data File:	111821.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-02 dup 1/6
Date Analyzed:	11/17/22	Data File:	111713.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.2 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-02 dup 1/60
Date Analyzed:	11/18/22	Data File:	111822.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	1.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-03 1/6
Date Analyzed:	11/17/22	Data File:	111714.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	76	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	3.1 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-03 1/60
Date Analyzed:	11/18/22	Data File:	111823.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	3.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-03 dup 1/6
Date Analyzed:	11/17/22	Data File:	111715.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	76	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	4.1 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DU01-221109-IS-0.2-REP02	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-03 dup 1/60
Date Analyzed:	11/18/22	Data File:	111824.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	4.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB01-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-04 1/6
Date Analyzed:	11/17/22	Data File:	111716.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.37
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB01-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-05 1/6
Date Analyzed:	11/17/22	Data File:	111717.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB01-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-06 1/6
Date Analyzed:	11/17/22	Data File:	111721.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	51	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB02-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-07 1/6
Date Analyzed:	11/17/22	Data File:	111722.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	58 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB02-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-07 1/1200
Date Analyzed:	11/18/22	Data File:	111828.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	48

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB02-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-08 1/6
Date Analyzed:	11/18/22	Data File:	111816.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.035
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB02-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-09 1/6
Date Analyzed:	11/17/22	Data File:	111724.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.15
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB03-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-10 1/6
Date Analyzed:	11/17/22	Data File:	111725.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	36 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB03-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-10 1/600
Date Analyzed:	11/18/22	Data File:	111829.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	150 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	30

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB03-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-11 1/6
Date Analyzed:	11/18/22	Data File:	111817.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.025
Aroclor 1260	0.17
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB03-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-12 1/6
Date Analyzed:	11/17/22	Data File:	111727.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.30
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB04-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-13 1/6
Date Analyzed:	11/17/22	Data File:	111728.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	66 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB04-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-13 1/1200
Date Analyzed:	11/18/22	Data File:	111830.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	200 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	77

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB04-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-14 1/6
Date Analyzed:	11/18/22	Data File:	111818.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.25
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB04-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-15 1/6
Date Analyzed:	11/17/22	Data File:	111733.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.093
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB05-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-16 1/6
Date Analyzed:	11/17/22	Data File:	111734.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.23
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB05-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-17 1/6
Date Analyzed:	11/17/22	Data File:	111735.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB05-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-18 1/6
Date Analyzed:	11/17/22	Data File:	111736.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB06-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-19 1/6
Date Analyzed:	11/17/22	Data File:	111737.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.14
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB06-1.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-20 1/6
Date Analyzed:	11/17/22	Data File:	111738.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	72	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB06-2.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-21 1/6
Date Analyzed:	11/17/22	Data File:	111739.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB07-0.5	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-22 1/6
Date Analyzed:	11/17/22	Data File:	111740.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.12
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-23 1/6
Date Analyzed:	11/18/22	Data File:	111741.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	74 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	211173-23 1/1200
Date Analyzed:	11/18/22	Data File:	111831.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	02-2791 mb2 1/6
Date Analyzed:	11/17/22	Data File:	111707.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/16/22	Lab ID:	02-2794 mb 1/6
Date Analyzed:	11/17/22	Data File:	111708.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	RINSATE01	Client:	Evren Northwest
Date Received:	11/11/22	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/17/22	Lab ID:	211173-24
Date Analyzed:	11/18/22	Data File:	111811.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	44	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	0.28
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211173
Date Extracted:	11/17/22	Lab ID:	02-2783 mb
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211173

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 211173-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	84	81	29-125	4
Aroclor 1260	mg/kg (ppm)	0.25	0.21	251 b	312 b	25-137	22 b

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	94	55-137
Aroclor 1260	mg/kg (ppm)	0.25	100	51-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211173

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 211199-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	92	100	44-107	8
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	96	104	38-124	8

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	100	47-158
Aroclor 1260	mg/kg (ppm)	0.25	108	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/11/22

Project: 1355-21001-08, F&BI 211173

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	68	65	55-137	5
Aroclor 1260	mg/kg (ppm)	0.25	80	80	51-150	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

21173

SAMPLE CHAIN OF CUSTODY

11/11/22

C1/B3

Page # 1 of 3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynng@evren-nw.com

SAMPLES (signature)

PROJECT NAME

1355-2101-02

PO #

REMARKS

INVOICE TO

Project Specific RIs - Yes / No

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
503-452-5561 11/11/22													
DV01-221409-15-0.2	01	11-09-22	09:30	Soil	4								Run a duplicate and 15:15
DV01-221409-15-0.2-14401	02	11-09-22	10:15	Soil	1								pellet 11/11/22
DV01-221409-15-0.2-14402	03	11-01-22	10:55	Soil	1								
B01-0.5	04	11-09-22	12:42	Soil	1								
B01-1.5	05	11-09-22	12:42	Soil	1								
B01-2.5	06	11-09-22	12:43	Soil	1								
B02-0.5	07	11-09-22	14:38	Soil	1								
B02-1.5	08	11-09-22	14:39	Soil	1								
B02-2.5	09	11-09-22	14:43	Soil	1								
B03-0.5	10	11-09-22	14:03	Soil	1								Time 14:14

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *Jordan Davis*

Received by: *ANHPHAN*

Relinquished by:

Received by:

Jordan Davis

ANHPHAN

ENR

ENR

11-09-22

11/11/22

15:00

10:09

Samples received at 2:00

AN

211173

SAMPLE CHAIN OF CUSTODY

11/11/22

C1153

Report To Lynn Green

Company EV/REN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@even-nw.com

SAMPLERS (signature)

PROJECT NAME

1355-21001-06

PO #

REMARKS

INVOICE TO

Project Specific RIs - Yes / No

Page # 2 of 3

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
B03-1.5	11	11-09-22	14:15	Soi:1	1							
B03-2.5	12	11-09-22	14:16	Soi:1	1							
B04-0.5	13	11-09-22	15:13	Soi:1	1							
B04-1.5	14	11-09-22	15:15	Soi:1	1							
B04-2.5	15	11-09-22	15:22	Soi:1	1							
B05-0.5	16	11-09-22	15:46	Soi:1	1							
B05-1.5	17	11-09-22	15:44	Soi:1	1							
B05-2.5	18	11-09-22	15:46	Soi:1	1							
B06-0.5	19	11-09-22	16:02	Soi:1	1							
B06-1.5	20	11-09-22	16:04	Soi:1	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: Jordan Morris

Received by: ANH PHAN

COMPANY

DATE

TIME

Relinquished by: ANH PHAN

Received by: ANH PHAN

COMPANY

DATE

TIME

Relinquished by: ANH PHAN

Received by: ANH PHAN

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COMPANY

DATE

TIME

Relinquished by: ANH PHAN

Received by: ANH PHAN

COMPANY

DATE

TIME

Page # 3 of 3

Phone (43) 462-561 Email jyung@lucina-kw.com

Page # 2

TURNAROUND TIME

standard turnaround

JSH

charges authorized by:

SAMPLE DISPOSAL

archive samples

her

Result: Dispose after 30 days

[illegible]

Ph. (206) 285-8282

DATE	TIME
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77-09-22 15:cc

10.00	10.00
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11/11/22	10:00
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[illegible]

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 30, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on November 12, 2022 from the 1355-21001-08, F&BI 211193 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1130R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 12, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 211193 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
211193 -01	EB10-0.5
211193 -02	EB10-1.5
211193 -03	EB10-2.5
211193 -04	EB11-0.5
211193 -05	EB11-1.5
211193 -06	EB11-2.5
211193 -07	EB12-0.5
211193 -08	EB12-1.5
211193 -09	EB12-2.5
211193 -10	EB13-0.5
211193 -11	EB13-1.5
211193 -12	EB13-2.5
211193 -13	EB14-0.5
211193 -14	EB14-1.5
211193 -15	EB14-2.5
211193 -16	EB15-0.5
211193 -17	EB15-1.5
211193 -18	EB15-2.5
211193 -19	FD03
211193 -20	RINSATE03

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

Date Extracted: 11/14/22

Date Analyzed: 11/15/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD NWTPH-G_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Gasoline Range</u>	Surrogate (% Recovery)
Laboratory ID		(Limit 50-150)
EB13-2.5 211193-12	<5	94
Method Blank 02-2717 MB	<5	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

Date Extracted: 11/14/22

Date Analyzed: 11/14/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Residual Range</u>	Surrogate
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	<u>(% Recovery)</u>
			(Limit 50-150)
EB13-2.5	<50	<250	98
211193-12			
Method Blank	<50	<250	100
02-2777 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB10-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-01 1/60
Date Analyzed:	11/21/22	Data File:	112123.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 d	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.2
Aroclor 1232	<0.2
Aroclor 1016	<0.2
Aroclor 1242	<0.2
Aroclor 1248	<0.2
Aroclor 1254	0.28
Aroclor 1260	0.87
Aroclor 1262	<0.2
Aroclor 1268	<0.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB10-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-02 1/6
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB10-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-03 1/6
Date Analyzed:	11/18/22	Data File:	111808.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.037
Aroclor 1260	0.13
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB11-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-04 1/600
Date Analyzed:	11/21/22	Data File:	112124.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	0 d	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<2
Aroclor 1232	<2
Aroclor 1016	<2
Aroclor 1242	<2
Aroclor 1248	<2
Aroclor 1254	4.6
Aroclor 1260	15
Aroclor 1262	<2
Aroclor 1268	<2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB11-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-05 1/6
Date Analyzed:	11/18/22	Data File:	111810.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB11-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-06 1/60
Date Analyzed:	11/21/22	Data File:	112125.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower	Upper
TCMX	90 d	Limit:	Limit:
		50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.2
Aroclor 1232	<0.2
Aroclor 1016	<0.2
Aroclor 1242	<0.2
Aroclor 1248	<0.2
Aroclor 1254	0.94
Aroclor 1260	3.1
Aroclor 1262	<0.2
Aroclor 1268	<0.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB12-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-07 1/6
Date Analyzed:	11/18/22	Data File:	111812.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.050
Aroclor 1260	0.41
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB12-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-08 1/6
Date Analyzed:	11/18/22	Data File:	111813.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB12-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-09 1/6
Date Analyzed:	11/18/22	Data File:	111817.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB13-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-10 1/6
Date Analyzed:	11/18/22	Data File:	111818.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.054
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB13-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-11 1/6
Date Analyzed:	11/18/22	Data File:	111819.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB13-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-12 1/6
Date Analyzed:	11/18/22	Data File:	111820.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB14-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-13 1/6
Date Analyzed:	11/18/22	Data File:	111821.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.14
Aroclor 1260	0.56
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB14-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-14 1/6
Date Analyzed:	11/18/22	Data File:	111822.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB14-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-15 1/6
Date Analyzed:	11/18/22	Data File:	111823.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.17
Aroclor 1260	0.80
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB15-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-16 1/6
Date Analyzed:	11/18/22	Data File:	111824.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.58
Aroclor 1260	3.7 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB15-0.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-16 1/120
Date Analyzed:	11/21/22	Data File:	112126.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90 d	50	150

Compounds:	Concentration
	mg/kg (ppm)

Aroclor 1260	4.8
--------------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB15-1.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-17 1/6
Date Analyzed:	11/21/22	Data File:	112122.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	106	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.065
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB15-2.5	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-18 1/6
Date Analyzed:	11/18/22	Data File:	111826.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.069
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD03	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-19 1/6
Date Analyzed:	11/18/22	Data File:	111827.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.075
Aroclor 1260	0.32
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211193
Date Extracted:	Not Applicable	Lab ID:	02-2800 mb 1/6
Date Analyzed:	11/21/22	Data File:	112121.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	RINSATE03	Client:	Evren Northwest
Date Received:	11/12/22	Project:	1355-21001-08, F&BI 211193
Date Extracted:	11/17/22	Lab ID:	211193-20
Date Analyzed:	11/18/22	Data File:	111812.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	42	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 211193
Date Extracted:	Not Applicable	Lab ID:	02-2783 mb
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63	29	154

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 211193-12 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	100	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 211187-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	<50	61	72	50-150	17

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	2,000	78	50-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 211193-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	100	93	44-107	7
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	94	90	38-124	4

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	101	47-158
Aroclor 1260	mg/kg (ppm)	0.25	106	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/12/22

Project: 1355-21001-08, F&BI 211193

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	68	65	55-137	5
Aroclor 1260	mg/kg (ppm)	0.25	80	80	51-150	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

211193

SAMPLE CHAIN OF CUSTODY

11-12-22

C2/B2

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@evren-nw.com

Page # 1 of 2

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

SAMPLERS (signature) <i>Jordan Mean's</i>		PROJECT NAME	PO #
		1355-21001-06	
REMARKS		INVOICE TO	
Project Specific RIs - Yes / No			

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
B10-0.5	01	11-11-22	11:26	Soil								
B10-1.5	02	11-11-22	11:28	Soil								
B10-2.5	03	11-11-22	11:34	Soil								
B11-0.5	04	11-11-22	11:45	Soil								
B11-1.5	05	11-11-22	11:53	Soil								
B11-2.5	06	11-11-22	11:51	Soil								
B12-0.5	07	11-11-22	10:44	Soil								
B12-1.5	08	11-11-22	10:47	Soil								
B12-2.5	09	11-11-22	10:48	Soil								
B13-0.5	10	11-11-22	9:27	Soil								

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <i>Jordan Mean's</i>		Jordan Mean's		Euren Northwest		11-12-22	16:00
Received by: <i>ml</i>		Nhan Phan		Fe B T		11/12/21	12:00
Relinquished by:							
Received by:				Samples received at		4	00

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

211193

SAMPLE CHAIN OF CUSTODY

11-12-22

C2/b2

Page # 2 of 2

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynng@evren-nw.com

SAMPLERS (signature)

PROJECT NAME

155-21001-08

PO #

REMARKS

INVOICE TO

Project Specific RIs - Yes / No

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B13-1.5	11	11-11-22	9:13	Soil								(AP)
B13-2.5	12A-E	11-11-22	9:25	Soil	5	X	X					Time label 9:21
B14-0.5	13	11-11-22	9:02	Soil								
B14-1.5	14	11-11-22	9:01	Soil								
B14-2.5	15	11-11-22	8:58	Soil								
B15-0.5	16	11-11-22	8:40	Soil								
B15-1.5	17	11-11-22	8:41	Soil								
B15-2.5	18	11-11-22	8:42	Soil								
FD03	19	11-11-22	8:15	Soil								
REINSTATE 03	20	11-11-22	10:38	Water								

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *Jordan Morris*

Jordan Morris

Euren Northwest

11-14-22 15:00

Received by: *m/af*

Marian Pham

Fe B T

11/12/22 1200

Relinquished by:

Received by:

Samples received at 4:00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 19, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the additional results from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211172 project. There is 1 page included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 11, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 211172 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
211172 -01	EB08-0.5
211172 -02	EB08-1.5
211172 -03	EB08-2.5
211172 -04	EB09-0.5
211172 -05	EB09-1.5
211172 -06	EB09-2.5
211172 -07	EB11-0.5
211172 -08	EB16-0.5
211172 -09	EB16-1.5
211172 -10	EB16-2.5
211172 -11	EB17-0.5
211172 -12	EB17-1.5
211172 -13	EB17-2.5
211172 -14	EB18-0.5
211172 -15	EB18-1.5
211172 -16	EB18-2.5
211172 -17	EB19-0.5
211172 -18	EB19-1.5
211172 -19	EB19-2.5
211172 -20	EB20-0.5
211172 -21	EB20-1.5
211172 -22	EB20-2.5
211172 -23	EB21-0.5
211172 -24	EB21-1.5
211172 -25	EB21-2.5
211172 -26	FD02
211172 -27	RINSATE02

Samples EB17-0.5 and EB20-0.5 were sent to Frontier Analytical for PCB congener analysis. The report is enclosed.

21172

SAMPLE CHAIN OF CUSTODY

11/11/22

C2/M3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@evren-nw.com

SAMPLERS (signature)

PROJECT NAME

4355-24001-08

PO #

REMARKS

INVOICE TO

Project Specific Rls - Yes / No

Page # 4 of 3

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
BOB-0.5	01	11-10-22	8:41	Soil	1							
BOB-1.5	02	11-10-22	8:44	Soil	1							
BOB-2.5	03	11-10-22	8:46	Soil	1							
BOB-0.5	04	11-10-22	9:02	Soil	1							
BOB-1.5	05	11-10-22	9:04	Soil	1							
BOB-2.5	06	11-10-22	9:06	Soil	1							
BI1-0.5	07	11-10-22	12:58	Soil	1							
BI6-0.5	08	11-10-22	15:12	Soil	1							
BI6-1.5	09	11-10-22	15:14	Soil	1							
BI6-2.5	10	11-10-22	15:16	Soil	1							

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Jordan Harris

ANH PHAN

ENW

F86

11-10-22

10:09

Samples received at 20°C

2/11/22

SAMPLE CHAIN OF CUSTODY

11/11/22

c2/m3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@evren-nw.com

Page # 2 of 3

TURNAROUND TIME
Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Archive Samples
Other

SAMPLERS (signature) *[Signature]*

PROJECT NAME 1355-22001-08

PO #

REMARKS

INVOICE TO

Project Specific RIs - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	PCBs congeners	Notes
B17-0.5	11	11-10-22	14:54	501	1								
B17-1.5	12	11-10-22	14:58	501	1								(X) per 11/23/22 me
B17-2.5	13	11-10-22	15:02	501	1								
B18-0.5	14	11-10-22	14:38	501	1								
B18-1.5	15	11-10-22	14:32	501	1								
B18-2.5	16	11-10-22	14:36	501	1								
B19-0.5	17	11-10-22	14:22	501	1								
B19-1.5	18	11-10-22	14:24	501	1								
B19-2.5	19	11-10-22	14:25	501	1								
B20-0.5	20	11-10-22	13:23	501	1								

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *[Signature]*

Jordan Morris

EVN

11-10-22

18:00

Received by: *[Signature]*

ANH PHAN

ESB

11/11/22

10:09

Relinquished by:

Received by:

Relinquished by:	PRINT NAME	COMPANY	DATE	TIME
Received by:				
Relinquished by:				
Received by:				

Samples received at 2 °C

21172

SAMPLE CHAIN OF CUSTODY

4/11/22

C2/M3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@evren-nw.com

SAMPLERS (signature) <i>Jordan Morris</i>		PO #
PROJECT NAME <i>1355-2A001-03</i>		
REMARKS	INVOICE TO	
Project Specific RIs - Yes / No		

Page # <i>3</i> of <i>3</i>
TURNAROUND TIME Standard Turnaround RUSH
Rush charges authorized by:
SAMPLE DISPOSAL Dispose after 30 days Archive Samples Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B20-1.5	21	11-10-22	13:27	Soil	1											
B20-2.5	22	11-10-22	13:29	Soil	1											
B21-0.5	23	11-10-22	13:58	Soil	1											
B21-1.5	24	11-10-22	13:59	Soil	1											
B21-2.5	25	11-10-22	14:00	Soil	1											
FD02	26	11-10-22	13:34	Soil	1											
RINATE 02	27	11-10-22	15:10	Water	1											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <i>Jordan Morris</i>		Jordan Morris		ENV		11-10-22	16:00
Received by: <i>JMR</i>		AMH PHAN		F813		11/11/22	10:09
Relinquished by:							
Received by:				Samples received at		200	

Test Report

December 14, 2022

FAL Project: 14784

Mr. Michael Erdahl
Friedman and Bruya, Inc.
3012 16th Ave. W
Seattle, WA 98119

Dear Mr. Erdahl,

The following results are associated with Frontier Analytical Laboratory project **14784**. This corresponds to your project number **211172** and purchase order number **D-33**. Two soil samples were received on 11/29/2022 in good condition. Per your request, both samples were extracted and analyzed by EPA Method 1668 for all 209 polychlorinated biphenyl (PCB) congeners. Friedman and Bruya, Inc. requested a turnaround time of fifteen business days for project **14784**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed are specifically for the samples referenced in this report only. These results meet all NELAP requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**, our State of California ELAP certificate number is **2934** and our State of Washington certificate number is **C844**. This report along with the associated EDD has been emailed to you. A hardcopy of this report will not be sent to you unless specifically requested.

If you have any questions regarding project **14784**, please feel free to contact me at (916) 934-0900.

Sincerely,



Bradley B. Silverbush
Laboratory Director

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **14784**

Received on: **11/29/2022**

Project Due: **12/21/2022** Storage: **R-3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
14784-001-SA	0	211172	EB17-0.5	EPA 1668 PCB	Soil	11/10/2022	02:54 pm	11/10/2023
14784-002-SA	0	211172	EB20-0.5	EPA 1668 PCB	Soil	11/10/2022	01:23 pm	11/10/2023

EPA Method 1668 PCBs



FAL ID: 14784-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-13-2022
Total Conc: 0.0

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.203			PCB-51	ND	0.335		
PCB-2	ND	0.255			PCB-52	ND	0.321	C	69
PCB-3	ND	0.306			PCB-53	ND	0.339		
PCB-4	ND	1.01			PCB-54	ND	0.299		
PCB-5	ND	0.780			PCB-55	ND	0.239		
PCB-6	ND	0.777			PCB-56	ND	0.658	C	60
PCB-7	ND	0.785			PCB-57	ND	0.259		
PCB-8	ND	0.798			PCB-58	ND	0.237		
PCB-9	ND	0.782			PCB-59	-	-	C042	42
PCB-10	ND	0.697			PCB-60	-	-	C056	56
PCB-11	ND	0.825			PCB-61	ND	0.257	C	70
PCB-12	ND	0.817			PCB-62	ND	0.260		
PCB-13	ND	0.819			PCB-63	ND	0.255		
PCB-14	ND	0.809			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.02			PCB-65	ND	0.259		
PCB-16	ND	0.340			PCB-66	ND	0.238	C	76
PCB-17	ND	0.374			PCB-67	ND	0.262		
PCB-18	ND	0.409			PCB-68	ND	0.241		
PCB-19	ND	0.427			PCB-69	-	-	C052	52
PCB-20	ND	0.709	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.669			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.723			PCB-73	ND	0.238		
PCB-24	ND	0.271			PCB-74	ND	0.258		
PCB-25	ND	0.703			PCB-75	-	-	C048	48
PCB-26	ND	0.674			PCB-76	-	-	C066	66
PCB-27	ND	0.277			PCB-77	ND	0.631		
PCB-28	ND	0.639			PCB-78	ND	0.599		
PCB-29	ND	0.647			PCB-79	ND	0.548		
PCB-30	ND	0.266			PCB-80	ND	0.214		
PCB-31	ND	0.705			PCB-81	ND	0.576		
PCB-32	ND	0.321			PCB-82	ND	0.986		
PCB-33	-	-	C020	20/21	PCB-83	ND	0.733	C	112
PCB-34	ND	0.862			PCB-84	ND	0.864	C	92
PCB-35	ND	0.747			PCB-85	ND	0.668	C	116
PCB-36	ND	0.671			PCB-86	ND	0.847		
PCB-37	ND	0.733			PCB-87	ND	0.638	C	117/125
PCB-38	ND	0.682			PCB-88	ND	0.417	C	91
PCB-39	ND	0.703			PCB-89	ND	0.856		
PCB-40	ND	0.447			PCB-90	ND	0.740	C	101
PCB-41	ND	0.278	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.314	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.345	C	49	PCB-93	ND	0.463		
PCB-44	ND	0.408			PCB-94	ND	0.484		
PCB-45	ND	0.387			PCB-95	ND	0.452		
PCB-46	ND	0.423			PCB-96	ND	0.337		
PCB-47	ND	0.323			PCB-97	ND	0.866		
PCB-48	ND	0.262	C	75	PCB-98	ND	0.458	C	102
PCB-49	-	-	C043	43	PCB-99	ND	0.642		
PCB-50	ND	0.349			PCB-100	ND	0.396		

EPA Method 1668 PCBs



FAL ID: 14784-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-13-2022

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.803		
PCB-102	-	-	C098	98	PCB-152	ND	0.520		
PCB-103	ND	0.401			PCB-153	ND	0.624		
PCB-104	ND	0.327			PCB-154	ND	0.604		
PCB-105	ND	0.631			PCB-155	ND	0.487		
PCB-106	ND	0.663	C	118	PCB-156	ND	0.571		
PCB-107	ND	0.600	C	108	PCB-157	ND	0.602		
PCB-108	-	-	C107	107	PCB-158	ND	0.510	C	160
PCB-109	ND	0.591			PCB-159	ND	0.522		
PCB-110	ND	0.578			PCB-160	-	-	C158	158
PCB-111	ND	0.576	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.661			PCB-163	-	-	C138	138/164
PCB-114	ND	0.617			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.530		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.520		
PCB-118	-	-	C	106	PCB-168	ND	0.560		
PCB-119	ND	0.563			PCB-169	ND	0.538		
PCB-120	ND	0.541			PCB-170	ND	0.924		
PCB-121	ND	0.335			PCB-171	ND	0.892		
PCB-122	ND	0.619			PCB-172	ND	0.917		
PCB-123	ND	0.673			PCB-173	ND	0.981		
PCB-124	ND	0.636			PCB-174	ND	0.806		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.833		
PCB-126	ND	0.704			PCB-176	ND	0.632		
PCB-127	ND	0.658			PCB-177	ND	0.913		
PCB-128	ND	0.637	C	162	PCB-178	ND	0.906		
PCB-129	ND	0.876			PCB-179	ND	0.614		
PCB-130	ND	0.823			PCB-180	ND	0.864		
PCB-131	ND	0.841	C	133	PCB-181	ND	0.896		
PCB-132	ND	0.664	C	161	PCB-182	ND	0.768	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.773		
PCB-134	ND	0.838	C	143	PCB-184	ND	0.589		
PCB-135	ND	0.791			PCB-185	ND	0.858		
PCB-136	ND	0.512			PCB-186	ND	0.622		
PCB-137	ND	0.723			PCB-187	-	-	C182	182
PCB-138	ND	0.597	C	163/164	PCB-188	ND	0.718		
PCB-139	ND	0.686	C	149	PCB-189	ND	0.596		
PCB-140	ND	0.689			PCB-190	ND	0.649		
PCB-141	ND	0.723			PCB-191	ND	0.638		
PCB-142	ND	0.831			PCB-192	ND	0.683		
PCB-143	-	-	C134	134	PCB-193	ND	0.617		
PCB-144	ND	0.720			PCB-194	ND	0.396		
PCB-145	ND	0.518			PCB-195	ND	0.455		
PCB-146	ND	0.631	C	165	PCB-196	ND	0.501	C	203
PCB-147	ND	0.684			PCB-197	ND	0.378		
PCB-148	ND	0.694			PCB-198	ND	0.523		
PCB-149	-	-	C139	139	PCB-199	ND	0.550		
PCB-150	ND	0.511			PCB-200	ND	0.378		

EPA Method 1668 PCBs



FAL ID: 14784-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-13-2022

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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.383		
PCB-202	ND	0.411		
PCB-203	-	-	C196	196
PCB-204	ND	0.387		
PCB-205	ND	0.315		
PCB-206	ND	0.469		
PCB-207	ND	0.313		
PCB-208	ND	0.305		
PCB-209	ND	0.351		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	61.1	5.00 - 145	
13C-PCB-3	54.7	5.00 - 145	
13C-PCB-4	64.8	5.00 - 145	
13C-PCB-15	55.3	5.00 - 145	
13C-PCB-19	67.1	5.00 - 145	
13C-PCB-37	52.0	5.00 - 145	
13C-PCB-54	72.7	5.00 - 145	
13C-PCB-77	57.6	10.0 - 145	
13C-PCB-81	52.4	10.0 - 145	
13C-PCB-104	67.0	10.0 - 145	
13C-PCB-105	63.0	10.0 - 145	
13C-PCB-114	63.5	10.0 - 145	
13C-PCB-118	65.1	10.0 - 145	
13C-PCB-123	58.7	10.0 - 145	
13C-PCB-126	64.3	10.0 - 145	
13C-PCB-155	77.2	10.0 - 145	
13C-PCB-156	67.3	10.0 - 145	
13C-PCB-157	71.9	10.0 - 145	
13C-PCB-167	70.1	10.0 - 145	
13C-PCB-169	69.3	10.0 - 145	
13C-PCB-188	74.6	10.0 - 145	
13C-PCB-189	78.1	10.0 - 145	
13C-PCB-202	76.3	10.0 - 145	
13C-PCB-205	62.4	10.0 - 145	
13C-PCB-206	65.3	10.0 - 145	
13C-PCB-208	70.3	10.0 - 145	
13C-PCB-209	69.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	65.4	5.00 - 145	
13C-PCB-111	67.1	10.0 - 145	
13C-PCB-178	71.3	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 12/14/2022

Reviewed By: 
Date: 12/14/2022

EPA Method 1668
PCBs



FAL ID: 14784-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: NA
Amount: 10.00 g

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: ng/ml

Acquired: 12-13-2022

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	105	60.0 - 135		13C-PCB-1	63.2	15.0 - 145	
PCB-3	109	60.0 - 135		13C-PCB-3	52.3	15.0 - 145	
PCB-4	125	60.0 - 135		13C-PCB-4	65.8	15.0 - 145	
PCB-15	93.0	60.0 - 135		13C-PCB-15	52.6	15.0 - 145	
PCB-19	108	60.0 - 135		13C-PCB-19	65.5	15.0 - 145	
PCB-37	98.4	60.0 - 135		13C-PCB-37	51.7	15.0 - 145	
PCB-54	101	60.0 - 135		13C-PCB-54	71.2	15.0 - 145	
PCB-77	103	60.0 - 135		13C-PCB-77	53.8	40.0 - 145	
PCB-81	99.0	60.0 - 135		13C-PCB-81	48.8	40.0 - 145	
PCB-104	102	60.0 - 135		13C-PCB-104	72.1	40.0 - 145	
PCB-105	90.8	60.0 - 135		13C-PCB-105	67.0	40.0 - 145	
PCB-114	91.2	60.0 - 135		13C-PCB-114	62.2	40.0 - 145	
PCB-118	99.0	60.0 - 135		13C-PCB-118	61.5	40.0 - 145	
PCB-123	101	60.0 - 135		13C-PCB-123	58.3	40.0 - 145	
PCB-126	92.2	60.0 - 135		13C-PCB-126	56.8	40.0 - 145	
PCB-155	91.8	60.0 - 135		13C-PCB-155	77.2	40.0 - 145	
PCB-156	93.2	60.0 - 135		13C-PCB-156	64.7	40.0 - 145	
PCB-157	95.8	60.0 - 135		13C-PCB-157	68.4	40.0 - 145	
PCB-167	85.8	60.0 - 135		13C-PCB-167	71.0	40.0 - 145	
PCB-169	97.4	60.0 - 135		13C-PCB-169	65.0	40.0 - 145	
PCB-188	101	60.0 - 135		13C-PCB-188	72.0	40.0 - 145	
PCB-189	93.4	60.0 - 135		13C-PCB-189	73.5	40.0 - 145	
PCB-202	105	60.0 - 135		13C-PCB-202	72.1	40.0 - 145	
PCB-205	97.2	60.0 - 135		13C-PCB-205	63.9	40.0 - 145	
PCB-206	97.0	60.0 - 135		13C-PCB-206	69.4	40.0 - 145	
PCB-208	101	60.0 - 135		13C-PCB-208	69.6	40.0 - 145	
PCB-209	92.8	60.0 - 135		13C-PCB-209	73.1	40.0 - 145	
				Cleanup Surrogate	% Recovery	QC limits	Qual
				13C-PCB-28	66.2	15.0 - 145	
				13C-PCB-111	64.3	40.0 - 145	
				13C-PCB-178	66.8	40.0 - 145	

Analyst: 

Date: 12/14/2022

Reviewed By: 

Date: 12/14/2022

EPA Method 1668 PCBs



FAL ID: 14784-001-SA
Client ID: EB17-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.10 g
% Solids: 88.81

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022
Total Conc: 469000

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	1.20	-	J		PCB-51	ND	0.321		
PCB-2	2.36	-			PCB-52	29.6	-	C	69
PCB-3	2.37	-			PCB-53	ND	0.325		
PCB-4	ND	0.994			PCB-54	ND	0.287		
PCB-5	ND	0.590			PCB-55	1.09	-	J	
PCB-6	ND	0.588			PCB-56	4.48	-	C	60
PCB-7	ND	0.594			PCB-57	ND	0.249		
PCB-8	1.27	-	J		PCB-58	ND	0.227		
PCB-9	ND	0.592			PCB-59	-	-	C042	42
PCB-10	ND	0.527			PCB-60	-	-	C056	56
PCB-11	3.01	-			PCB-61	20.4	-	C	70
PCB-12	ND	0.618			PCB-62	ND	0.249		
PCB-13	ND	0.619			PCB-63	ND	0.244		
PCB-14	ND	0.612			PCB-64	-	-	C041	41/71/72
PCB-15	2.07	-			PCB-65	ND	0.248		
PCB-16	ND	0.727			PCB-66	86.9	-	C	76
PCB-17	ND	0.798			PCB-67	ND	0.251		
PCB-18	ND	0.873			PCB-68	ND	0.231		
PCB-19	ND	0.912			PCB-69	-	-	C052	52
PCB-20	2.21	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.997			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.08			PCB-73	ND	0.228		
PCB-24	ND	0.578			PCB-74	2.99	-		
PCB-25	ND	1.05			PCB-75	-	-	C048	48
PCB-26	ND	1.00			PCB-76	-	-	C066	66
PCB-27	ND	0.592			PCB-77	25.9	-		
PCB-28	2.76	-			PCB-78	ND	0.825		
PCB-29	ND	0.964			PCB-79	ND	0.755		
PCB-30	ND	0.569			PCB-80	ND	0.205		
PCB-31	3.45	-			PCB-81	13.0	-		
PCB-32	ND	0.685			PCB-82	25.6	-		
PCB-33	-	-	C020	20/21	PCB-83	17.5	-	C	112
PCB-34	ND	1.28			PCB-84	1220	-	C	92
PCB-35	ND	1.11			PCB-85	49.6	-	C	116
PCB-36	ND	1.00			PCB-86	ND	1.34		
PCB-37	2.67	-			PCB-87	584	-	C	117/125
PCB-38	ND	1.02			PCB-88	52.3	-	C	91
PCB-39	ND	1.05			PCB-89	ND	1.35		
PCB-40	ND	0.429			PCB-90	5920	-	C	101
PCB-41	6.27	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.301	C	59	PCB-92	-	-	C084	84
PCB-43	3.66	-	C	49	PCB-93	ND	0.496		
PCB-44	ND	0.391			PCB-94	ND	0.518		
PCB-45	ND	0.371			PCB-95	4690	-		
PCB-46	ND	0.406			PCB-96	ND	0.361		
PCB-47	1.63	-	J		PCB-97	173	-		
PCB-48	ND	0.251	C	75	PCB-98	ND	0.489	C	102
PCB-49	-	-	C043	43	PCB-99	152	-		
PCB-50	ND	0.335			PCB-100	ND	0.424		

EPA Method 1668 PCBs



FAL ID: 14784-001-SA
Client ID: EB17-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.10 g
% Solids: 88.81

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	13100	-		
PCB-102	-	-	C098	98	PCB-152	2.41	-		
PCB-103	2.48	-			PCB-153	56000	-		
PCB-104	ND	0.350			PCB-154	88.2	-		
PCB-105	371	-			PCB-155	ND	0.539		
PCB-106	1790	-	C	118	PCB-156	2160	-		
PCB-107	73.0	-	C	108	PCB-157	208	-		
PCB-108	-	-	C107	107	PCB-158	4420	-	C	160
PCB-109	ND	0.933			PCB-159	455	-		
PCB-110	6060	-			PCB-160	-	-	C158	158
PCB-111	ND	0.910	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.04			PCB-163	-	-	C138	138/164
PCB-114	ND	0.988			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	7.33	-		
PCB-117	-	-	C087	87/125	PCB-167	1220	-		
PCB-118	-	-	C	106	PCB-168	ND	0.967		
PCB-119	10.6	-			PCB-169	19.1	-		
PCB-120	62.0	-			PCB-170	23700	-		
PCB-121	ND	0.359			PCB-171	7640	-		
PCB-122	ND	0.969			PCB-172	3860	-		
PCB-123	11.1	-			PCB-173	481	-		
PCB-124	91.3	-			PCB-174	22800	-		
PCB-125	-	-	C087	87/117	PCB-175	931	-		
PCB-126	72.2	-			PCB-176	3140	-		
PCB-127	ND	1.03			PCB-177	14100	-		
PCB-128	3220	-	C	162	PCB-178	4180	-		
PCB-129	731	-			PCB-179	8800	-		
PCB-130	1820	-			PCB-180	55800	-		
PCB-131	712	-	C	133	PCB-181	ND	1.14		
PCB-132	9460	-	C	161	PCB-182	24800	-	C	187
PCB-133	-	-	C131	131	PCB-183	15100	-		
PCB-134	1540	-	C	143	PCB-184	9.71	-		
PCB-135	5090	-			PCB-185	2450	-		
PCB-136	5090	-			PCB-186	ND	0.793		
PCB-137	ND	1.25			PCB-187	-	-	C182	182
PCB-138	47500	-	C	163/164	PCB-188	13.8	-		
PCB-139	41000	-	C	149	PCB-189	801	-		
PCB-140	ND	1.19			PCB-190	4640	-		
PCB-141	12400	-			PCB-191	1010	-		
PCB-142	ND	1.44			PCB-192	ND	0.870		
PCB-143	-	-	C134	134	PCB-193	2370	-		
PCB-144	2560	-			PCB-194	7980	-		
PCB-145	ND	0.574			PCB-195	4170	-		
PCB-146	5990	-	C	165	PCB-196	9950	-	C	203
PCB-147	93.2	-			PCB-197	375	-		
PCB-148	ND	0.768			PCB-198	326	-		
PCB-149	-	-	C139	139	PCB-199	7480	-		
PCB-150	16.3	-			PCB-200	1050	-		

EPA Method 1668 PCBs



FAL ID: 14784-001-SA
Client ID: EB17-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.10 g
% Solids: 88.81

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1030	-		
PCB-202	1210	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.366		
PCB-205	488	-		
PCB-206	1250	-		
PCB-207	162	-		
PCB-208	191	-		
PCB-209	193	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	58.2	5.00 - 145	
13C-PCB-3	58.0	5.00 - 145	
13C-PCB-4	62.1	5.00 - 145	
13C-PCB-15	59.5	5.00 - 145	
13C-PCB-19	64.1	5.00 - 145	
13C-PCB-37	47.3	5.00 - 145	
13C-PCB-54	63.8	5.00 - 145	
13C-PCB-77	58.1	10.0 - 145	
13C-PCB-81	53.5	10.0 - 145	
13C-PCB-104	55.0	10.0 - 145	
13C-PCB-105	66.9	10.0 - 145	
13C-PCB-114	64.4	10.0 - 145	
13C-PCB-118	63.8	10.0 - 145	
13C-PCB-123	62.9	10.0 - 145	
13C-PCB-126	62.2	10.0 - 145	
13C-PCB-155	68.5	10.0 - 145	
13C-PCB-156	68.3	10.0 - 145	
13C-PCB-157	67.4	10.0 - 145	
13C-PCB-167	78.8	10.0 - 145	
13C-PCB-169	64.5	10.0 - 145	
13C-PCB-188	71.2	10.0 - 145	
13C-PCB-189	67.0	10.0 - 145	
13C-PCB-202	71.7	10.0 - 145	
13C-PCB-205	64.2	10.0 - 145	
13C-PCB-206	66.3	10.0 - 145	
13C-PCB-208	71.3	10.0 - 145	
13C-PCB-209	69.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	61.6	5.00 - 145	
13C-PCB-111	62.7	10.0 - 145	
13C-PCB-178	66.0	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 12/14/2022

Reviewed By: 
Date: 12/14/2022

EPA Method 1668 PCBs



FAL ID: 14784-002-SA
Client ID: EB20-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.30 g
% Solids: 91.73

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022
Total Conc: 1800000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	2.05	-			PCB-51	1.22	-	J	
PCB-2	0.950	-	J		PCB-52	348	-	C	69
PCB-3	2.27	-			PCB-53	4.35	-		
PCB-4	2.95	-			PCB-54	ND	0.309		
PCB-5	ND	0.982			PCB-55	6.85	-		
PCB-6	1.24	-	J		PCB-56	43.0	-	C	60
PCB-7	ND	0.989			PCB-57	0.880	-	J	
PCB-8	6.31	-			PCB-58	ND	0.244		
PCB-9	ND	0.986			PCB-59	-	-	C042	42
PCB-10	ND	0.878			PCB-60	-	-	C056	56
PCB-11	4.94	-			PCB-61	117	-	C	70
PCB-12	ND	1.03			PCB-62	ND	0.268		
PCB-13	1.21	-	J		PCB-63	2.27	-		
PCB-14	ND	1.02			PCB-64	-	-	C041	41/71/72
PCB-15	10.7	-			PCB-65	ND	0.267		
PCB-16	2.73	-			PCB-66	439	-	C	76
PCB-17	2.62	-			PCB-67	1.57	-	J	
PCB-18	7.00	-			PCB-68	ND	0.249		
PCB-19	1.05	-	J		PCB-69	-	-	C052	52
PCB-20	7.44	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	4.51	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.596			PCB-73	ND	0.246		
PCB-24	ND	0.432			PCB-74	21.9	-		
PCB-25	1.14	-	J		PCB-75	-	-	C048	48
PCB-26	2.30	-			PCB-76	-	-	C066	66
PCB-27	ND	0.442			PCB-77	181	-		
PCB-28	13.7	-			PCB-78	ND	0.791		
PCB-29	ND	0.533			PCB-79	ND	0.724		
PCB-30	ND	0.425			PCB-80	ND	0.221		
PCB-31	13.2	-			PCB-81	97.3	-		
PCB-32	3.01	-			PCB-82	173	-		
PCB-33	-	-	C020	20/21	PCB-83	142	-	C	112
PCB-34	ND	0.711			PCB-84	7880	-	C	92
PCB-35	ND	0.615			PCB-85	298	-	C	116
PCB-36	ND	0.553			PCB-86	ND	1.34		
PCB-37	11.7	-			PCB-87	4390	-	C	117/125
PCB-38	ND	0.562			PCB-88	236	-	C	91
PCB-39	ND	0.580			PCB-89	ND	1.35		
PCB-40	3.05	-			PCB-90	45700	-	C	101
PCB-41	51.8	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	8.76	-	C	59	PCB-92	-	-	C084	84
PCB-43	30.1	-	C	49	PCB-93	ND	0.587		
PCB-44	34.4	-			PCB-94	12.7	-		
PCB-45	3.35	-			PCB-95	26600	-		
PCB-46	1.31	-	J		PCB-96	13.9	-		
PCB-47	11.8	-			PCB-97	1580	-		
PCB-48	3.77	-	C	75	PCB-98	ND	0.579	C	102
PCB-49	-	-	C043	43	PCB-99	976	-		
PCB-50	ND	0.360			PCB-100	3.96	-		

EPA Method 1668 PCBs



FAL ID: 14784-002-SA
Client ID: EB20-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.30 g
% Solids: 91.73

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	57500	-		
PCB-102	-	-	C098	98	PCB-152	13.8	-		
PCB-103	25.5	-			PCB-153	168000	-		
PCB-104	ND	0.414			PCB-154	444	-		
PCB-105	2440	-			PCB-155	ND	0.681		
PCB-106	13600	-	C	118	PCB-156	12900	-		
PCB-107	648	-	C	108	PCB-157	1160	-		
PCB-108	-	-	C107	107	PCB-158	21000	-	C	160
PCB-109	ND	0.934			PCB-159	1690	-		
PCB-110	35800	-			PCB-160	-	-	C158	158
PCB-111	ND	0.911	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.05			PCB-163	-	-	C138	138/164
PCB-114	ND	0.850			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	15.4	-		
PCB-117	-	-	C087	87/125	PCB-167	6180	-		
PCB-118	-	-	C	106	PCB-168	ND	0.902		
PCB-119	63.1	-			PCB-169	107	-		
PCB-120	312	-			PCB-170	85500	-		
PCB-121	ND	0.424			PCB-171	32600	-		
PCB-122	40.3	-			PCB-172	17200	-		
PCB-123	51.9	-			PCB-173	2440	-		
PCB-124	705	-			PCB-174	86900	-		
PCB-125	-	-	C087	87/117	PCB-175	3890	-		
PCB-126	474	-			PCB-176	13600	-		
PCB-127	ND	0.882			PCB-177	58900	-		
PCB-128	15100	-	C	162	PCB-178	18100	-		
PCB-129	3790	-			PCB-179	35300	-		
PCB-130	9020	-			PCB-180	178000	-		
PCB-131	3450	-	C	133	PCB-181	ND	1.22		
PCB-132	52300	-	C	161	PCB-182	95600	-	C	187
PCB-133	-	-	C131	131	PCB-183	60400	-		
PCB-134	7890	-	C	143	PCB-184	40.9	-		
PCB-135	24900	-			PCB-185	10200	-		
PCB-136	23900	-			PCB-186	ND	0.850		
PCB-137	ND	1.17			PCB-187	-	-	C182	182
PCB-138	170000	-	C	163/164	PCB-188	69.2	-		
PCB-139	140000	-	C	149	PCB-189	3770	-		
PCB-140	ND	1.11			PCB-190	20600	-		
PCB-141	56800	-			PCB-191	4450	-		
PCB-142	ND	1.34			PCB-192	ND	0.932		
PCB-143	-	-	C134	134	PCB-193	10500	-		
PCB-144	12500	-			PCB-194	31700	-		
PCB-145	3.94	-			PCB-195	19400	-		
PCB-146	27000	-	C	165	PCB-196	23900	-	C	203
PCB-147	319	-			PCB-197	1420	-		
PCB-148	ND	0.970			PCB-198	1590	-		
PCB-149	-	-	C139	139	PCB-199	1670	-		
PCB-150	95.8	-			PCB-200	3900	-		

EPA Method 1668 PCBs



FAL ID: 14784-002-SA
Client ID: EB20-0.5
Matrix: Soil
Batch No: X6292

Date Extracted: 12-07-2022
Date Received: 11-29-2022
Amount: 10.30 g
% Solids: 91.73

ICal: DAILY209FAL4-12-13-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-14-2022

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	4030	-		
PCB-202	4690	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.526		
PCB-205	2070	-		
PCB-206	5060	-		
PCB-207	740	-		
PCB-208	747	-		
PCB-209	1180	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	43.8	5.00 - 145	
13C-PCB-3	45.9	5.00 - 145	
13C-PCB-4	48.6	5.00 - 145	
13C-PCB-15	50.5	5.00 - 145	
13C-PCB-19	53.8	5.00 - 145	
13C-PCB-37	50.2	5.00 - 145	
13C-PCB-54	54.3	5.00 - 145	
13C-PCB-77	50.2	10.0 - 145	
13C-PCB-81	48.6	10.0 - 145	
13C-PCB-104	51.6	10.0 - 145	
13C-PCB-105	66.9	10.0 - 145	
13C-PCB-114	68.4	10.0 - 145	
13C-PCB-118	59.7	10.0 - 145	
13C-PCB-123	66.0	10.0 - 145	
13C-PCB-126	67.0	10.0 - 145	
13C-PCB-155	64.6	10.0 - 145	
13C-PCB-156	74.2	10.0 - 145	
13C-PCB-157	76.4	10.0 - 145	
13C-PCB-167	81.4	10.0 - 145	
13C-PCB-169	68.6	10.0 - 145	
13C-PCB-188	71.3	10.0 - 145	
13C-PCB-189	66.4	10.0 - 145	
13C-PCB-202	74.9	10.0 - 145	
13C-PCB-205	57.4	10.0 - 145	
13C-PCB-206	55.5	10.0 - 145	
13C-PCB-208	65.5	10.0 - 145	
13C-PCB-209	50.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	55.1	5.00 - 145	
13C-PCB-111	58.1	10.0 - 145	
13C-PCB-178	71.1	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 12/14/2022

Reviewed By: 
Date: 12/14/2022

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR

Frontier

PROJECT NAME/NO.

PO #

211172

D-33

REMARKS

14784

Page # _____ of _____

TURNAROUND TIME

☒ Standard TAT

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE

Relinquished by

Received by:

Relinquished by:

Received by:

PRINT NAME

Michael Erdahl

Kathy Zipp

COMPANY

Friedman & Bruya

Frontier

DATE _____

11/28/72

2/29/27

TIME

0870

945

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **14784**

Client:	Friedman & Bruya, Inc.
Client Project ID:	211172
Date Received:	11/29/2022
Time Received:	09:45 am
Received By:	KZ
Logged In By:	HS
# of Samples Received:	2
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	8167 1780 1964
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	
Please note that the samples were received in clear glass jars.	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 20, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the additional results from the testing of material submitted on November 11, 2022 from the 1355-21001-08, F&BI 211173 project. There is 1 page included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1220R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 11, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 211173 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
211173 -01	DU01-221109-IS-0.2
211173 -02	DU01-221109-IS-0.2-REP01
211173 -03	DU01-221109-IS-0.2-REP02
211173 -04	EB01-0.5
211173 -05	EB01-1.5
211173 -06	EB01-2.5
211173 -07	EB02-0.5
211173 -08	EB02-1.5
211173 -09	EB02-2.5
211173 -10	EB03-0.5
211173 -11	EB03-1.5
211173 -12	EB03-2.5
211173 -13	EB04-0.5
211173 -14	EB04-1.5
211173 -15	EB04-2.5
211173 -16	EB05-0.5
211173 -17	EB05-1.5
211173 -18	EB05-2.5
211173 -19	EB06-0.5
211173 -20	EB06-1.5
211173 -21	EB06-2.5
211173 -22	EB07-0.5
211173 -23	FD01
211173 -24	RINSATE01

Sample EB04-0.5 was sent to Frontier Analytical for PCB congener analysis. The report is enclosed.

21173

SAMPLE CHAIN OF CUSTODY

11/11/22

C1/B3

1 of 3

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@evren-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

J355-2101-00

REMARKS

INVOICE TO

Project Specific RLS - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
DU01-221109-15-0.2	01	11-09-22	9:30	Soil	4							
DU01-221109-15-0.2-1	02	11-09-22	10:15	Soil	1							Run a duplicate analysis
DU01-221109-15-0.2-2	03	11-09-22	10:55	Soil	1							↓ 11/11/22
BO1-0.5	04	11-09-22	12:41	Soil	1							
BO1-1.5	05	11-09-22	12:42	Soil	1							
BO1-2.5	06	11-09-22	12:43	Soil	1							
BO2-0.5	07	11-09-22	14:36	Soil	1							
BO2-1.5	08	11-09-22	14:39	Soil	1							
BO2-2.5	09	11-09-22	14:43	Soil	1							
BO3-0.5	10	11-09-22	14:03	Soil	1							Time 14:14

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by:

Jordan Davis

ANY PHAN

ESB

11-09-22

15:00

Received by:

ML

ESB

11/11/22

10:09

Relinquished by:

ML

ESB

11/11/22

10:09

Received by:

ML

ESB

11/11/22

10:09

Received by:

ML

ESB

11/11/22

10:09

Samples received at 2:00

21173

SAMPLE CHAIN OF CUSTODY

11/11/22

C1153

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561

Email lynn@g-evren-nw.com

SAMPLERS (signature)

PROJECT NAME

1355-21001-06

PO #

REMARKS

INVOICE TO

Project Specific RIs - Yes / No

Page # 2 of 3

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	PCB Congeners	
B03-1.5	11	11-07-22	14:15	Soil	1								(X) per Lab
B03-2.5	12	11-07-22	14:16	Soil	1								11/24/22 M
B04-0.5	13	11-09-22	15:13	Soil	1								
B04-1.5	14	11-09-22	15:15	Soil	1								
B04-2.5	15	11-09-22	15:22	Soil	1								
B05-0.5	16	11-09-22	15:46	Soil	1								
B05-1.5	17	11-09-22	15:44	Soil	1								
B05-2.5	18	11-09-22	15:46	Soil	1								
B06-0.5	19	11-09-22	16:02	Soil	1								
B06-1.5	20	11-09-22	16:04	Soil	1								

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *[Signature]*

Jordan Morris

ENV

11-09-22

16:00

Received by: *[Signature]*

ANH PHAN

F84

11/11/22

10:09

Relinquished by:

Received by:

Samples received at 200

Page # 3 of 3

☐ Archive samples
☐ Other _____
Default: Dispose after 30 days

[illegible]

Test Report

December 16, 2022

FAL Project: 14783

Mr. Michael Erdahl
Friedman and Bruya, Inc.
3012 16th Ave. W
Seattle, WA 98119

Dear Mr. Erdahl,

The following results are associated with Frontier Analytical Laboratory project **14783**. This corresponds to your project number **211173** and purchase order number **D-33**. One soil sample was received on 11/29/2022 in good condition. Per your request, this sample was extracted and analyzed by EPA Method 1668 for all 209 polychlorinated biphenyl (PCB) congeners. Friedman and Bruya, Inc. requested a turnaround time of fifteen business days for project **14783**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed are specifically for the sample referenced in this report only. These results meet all NELAP requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**, our State of California ELAP certificate number is **2934** and our State of Washington certificate number is **C844**. This report along with the associated EDD has been emailed to you. A hardcopy of this report will not be sent to you unless specifically requested.

If you have any questions regarding project **14783**, please feel free to contact me at (916) 934-0900.

Sincerely,



Bradley B. Silverbush
Laboratory Director

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 14783

Received on: 11/29/2022

Project Due: 12/21/2022 Storage: R-3

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
14783-001-SA	0	211173	EB04-0.5	EPA 1668 PCB	Soil	11/09/2022	03:13 pm	11/09/2023

EPA Method 1668 PCBs



FAL ID: 14783-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: NA
Amount: 2.00 g

ICal: DAILY209FAL4-12-15-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-15-2022
Total Conc: 0.0

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.05			PCB-51	ND	0.871		
PCB-2	ND	1.44			PCB-52	ND	0.797	C	69
PCB-3	ND	1.83			PCB-53	ND	0.910		
PCB-4	ND	3.23			PCB-54	ND	0.739		
PCB-5	ND	2.97			PCB-55	ND	0.612		
PCB-6	ND	2.87			PCB-56	ND	2.55	C	60
PCB-7	ND	2.96			PCB-57	ND	0.677		
PCB-8	ND	3.00			PCB-58	ND	0.662		
PCB-9	ND	2.91			PCB-59	-	-	C042	42
PCB-10	ND	2.80			PCB-60	-	-	C056	56
PCB-11	ND	3.04			PCB-61	ND	0.720	C	70
PCB-12	ND	3.06			PCB-62	ND	0.679		
PCB-13	ND	3.10			PCB-63	ND	0.625		
PCB-14	ND	3.03			PCB-64	-	-	C041	41/71/72
PCB-15	ND	3.86			PCB-65	ND	0.683		
PCB-16	ND	1.57			PCB-66	ND	0.621	C	76
PCB-17	ND	1.75			PCB-67	ND	0.645		
PCB-18	ND	2.04			PCB-68	ND	0.616		
PCB-19	ND	2.02			PCB-69	-	-	C052	52
PCB-20	ND	1.58	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	1.50			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.61			PCB-73	ND	0.688		
PCB-24	ND	1.34			PCB-74	ND	0.654		
PCB-25	ND	1.72			PCB-75	-	-	C048	48
PCB-26	ND	1.70			PCB-76	-	-	C066	66
PCB-27	ND	1.34			PCB-77	ND	2.69		
PCB-28	ND	1.33			PCB-78	ND	2.36		
PCB-29	ND	1.66			PCB-79	ND	2.33		
PCB-30	ND	1.26			PCB-80	ND	0.557		
PCB-31	ND	1.86			PCB-81	ND	2.20		
PCB-32	ND	1.54			PCB-82	ND	2.07		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.59	C	112
PCB-34	ND	1.70			PCB-84	ND	2.04	C	92
PCB-35	ND	1.64			PCB-85	ND	1.41	C	116
PCB-36	ND	1.50			PCB-86	ND	2.07		
PCB-37	ND	1.67			PCB-87	ND	1.39	C	117/125
PCB-38	ND	1.56			PCB-88	ND	2.10	C	91
PCB-39	ND	1.55			PCB-89	ND	1.88		
PCB-40	ND	1.13			PCB-90	ND	1.65	C	101
PCB-41	ND	0.699	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.831	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.919	C	49	PCB-93	ND	2.26		
PCB-44	ND	1.10			PCB-94	ND	2.43		
PCB-45	ND	0.989			PCB-95	ND	2.21		
PCB-46	ND	1.04			PCB-96	ND	1.60		
PCB-47	ND	0.939			PCB-97	ND	1.95		
PCB-48	ND	0.690	C	75	PCB-98	ND	2.28	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.62		
PCB-50	ND	0.889			PCB-100	ND	1.95		

EPA Method 1668 PCBs



FAL ID: 14783-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: NA
Amount: 2.00 g

ICal: DAILY209FAL4-12-15-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-15-2022

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	2.00		
PCB-102	-	-	C098	98	PCB-152	ND	1.92		
PCB-103	ND	2.01			PCB-153	ND	1.62		
PCB-104	ND	1.61			PCB-154	ND	2.21		
PCB-105	ND	1.09			PCB-155	ND	1.84		
PCB-106	ND	1.18	C	118	PCB-156	ND	1.39		
PCB-107	ND	1.13	C	108	PCB-157	ND	1.41		
PCB-108	-	-	C107	107	PCB-158	ND	1.43	C	160
PCB-109	ND	1.32			PCB-159	ND	1.38		
PCB-110	ND	1.22			PCB-160	-	-	C158	158
PCB-111	ND	1.30	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.32			PCB-163	-	-	C138	138/164
PCB-114	ND	1.10			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.47		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.42		
PCB-118	-	-	C	106	PCB-168	ND	1.46		
PCB-119	ND	1.24			PCB-169	ND	1.76		
PCB-120	ND	1.17			PCB-170	ND	1.78		
PCB-121	ND	1.62			PCB-171	ND	1.63		
PCB-122	ND	1.11			PCB-172	ND	1.67		
PCB-123	ND	1.24			PCB-173	ND	1.86		
PCB-124	ND	1.09			PCB-174	ND	1.71		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.60		
PCB-126	ND	1.52			PCB-176	ND	1.20		
PCB-127	ND	1.11			PCB-177	ND	1.74		
PCB-128	ND	1.72	C	162	PCB-178	ND	1.78		
PCB-129	ND	2.29			PCB-179	ND	1.19		
PCB-130	ND	2.23			PCB-180	ND	1.66		
PCB-131	ND	2.14	C	133	PCB-181	ND	1.60		
PCB-132	ND	1.66	C	161	PCB-182	ND	1.54	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.49		
PCB-134	ND	2.25	C	143	PCB-184	ND	1.16		
PCB-135	ND	2.28			PCB-185	ND	1.67		
PCB-136	ND	1.95			PCB-186	ND	1.25		
PCB-137	ND	1.84			PCB-187	-	-	C182	182
PCB-138	ND	1.58	C	163/164	PCB-188	ND	1.39		
PCB-139	ND	1.83	C	149	PCB-189	ND	1.22		
PCB-140	ND	1.85			PCB-190	ND	1.22		
PCB-141	ND	1.92			PCB-191	ND	1.16		
PCB-142	ND	2.35			PCB-192	ND	1.29		
PCB-143	-	-	C134	134	PCB-193	ND	1.22		
PCB-144	ND	1.75			PCB-194	ND	1.58		
PCB-145	ND	1.99			PCB-195	ND	1.71		
PCB-146	ND	1.71	C	165	PCB-196	ND	1.61	C	203
PCB-147	ND	1.91			PCB-197	ND	1.22		
PCB-148	ND	2.50			PCB-198	ND	1.69		
PCB-149	-	-	C139	139	PCB-199	ND	1.79		
PCB-150	ND	1.91			PCB-200	ND	1.21		

EPA Method 1668 PCBs



FAL ID: 14783-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: NA
Amount: 2.00 g

ICal: DAILY209FAL4-12-15-22Y
GC Column: DB1MS
Units: pg/g

Acquired: 12-15-2022

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.29		
PCB-202	ND	1.37		
PCB-203	-	-	C196	196
PCB-204	ND	1.22		
PCB-205	ND	1.24		
PCB-206	ND	0.711		
PCB-207	ND	0.537		
PCB-208	ND	0.523		
PCB-209	ND	0.490		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.0	5.00 - 145	
13C-PCB-3	69.7	5.00 - 145	
13C-PCB-4	81.6	5.00 - 145	
13C-PCB-15	69.1	5.00 - 145	
13C-PCB-19	82.0	5.00 - 145	
13C-PCB-37	69.0	5.00 - 145	
13C-PCB-54	83.9	5.00 - 145	
13C-PCB-77	73.6	10.0 - 145	
13C-PCB-81	73.4	10.0 - 145	
13C-PCB-104	78.4	10.0 - 145	
13C-PCB-105	75.3	10.0 - 145	
13C-PCB-114	76.3	10.0 - 145	
13C-PCB-118	76.8	10.0 - 145	
13C-PCB-123	73.6	10.0 - 145	
13C-PCB-126	74.5	10.0 - 145	
13C-PCB-155	84.1	10.0 - 145	
13C-PCB-156	79.3	10.0 - 145	
13C-PCB-157	81.2	10.0 - 145	
13C-PCB-167	77.2	10.0 - 145	
13C-PCB-169	75.6	10.0 - 145	
13C-PCB-188	81.8	10.0 - 145	
13C-PCB-189	77.4	10.0 - 145	
13C-PCB-202	83.4	10.0 - 145	
13C-PCB-205	66.8	10.0 - 145	
13C-PCB-206	72.5	10.0 - 145	
13C-PCB-208	69.8	10.0 - 145	
13C-PCB-209	73.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.0	5.00 - 145	
13C-PCB-111	87.0	10.0 - 145	
13C-PCB-178	85.3	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 12/16/2022

Reviewed By: 
Date: 12/16/2022

EPA Method 1668
PCBs



FAL ID: 14783-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: NA
Amount: 2.00 g

ICal: DAILY209FAL4-12-15-22Y
GC Column: DB1MS
Units: ng/ml

Acquired: 12-15-2022

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	117	60.0 - 135		13C-PCB-1	86.1	15.0 - 145	
PCB-3	118	60.0 - 135		13C-PCB-3	78.9	15.0 - 145	
PCB-4	121	60.0 - 135		13C-PCB-4	89.1	15.0 - 145	
PCB-15	104	60.0 - 135		13C-PCB-15	74.3	15.0 - 145	
PCB-19	120	60.0 - 135		13C-PCB-19	85.8	15.0 - 145	
PCB-37	121	60.0 - 135		13C-PCB-37	73.1	15.0 - 145	
PCB-54	113	60.0 - 135		13C-PCB-54	89.1	15.0 - 145	
PCB-77	123	60.0 - 135		13C-PCB-77	74.5	40.0 - 145	
PCB-81	110	60.0 - 135		13C-PCB-81	74.4	40.0 - 145	
PCB-104	116	60.0 - 135		13C-PCB-104	82.3	40.0 - 145	
PCB-105	106	60.0 - 135		13C-PCB-105	78.1	40.0 - 145	
PCB-114	114	60.0 - 135		13C-PCB-114	80.5	40.0 - 145	
PCB-118	116	60.0 - 135		13C-PCB-118	78.6	40.0 - 145	
PCB-123	117	60.0 - 135		13C-PCB-123	80.3	40.0 - 145	
PCB-126	112	60.0 - 135		13C-PCB-126	76.3	40.0 - 145	
PCB-155	114	60.0 - 135		13C-PCB-155	87.3	40.0 - 145	
PCB-156	110	60.0 - 135		13C-PCB-156	79.0	40.0 - 145	
PCB-157	113	60.0 - 135		13C-PCB-157	81.3	40.0 - 145	
PCB-167	111	60.0 - 135		13C-PCB-167	81.6	40.0 - 145	
PCB-169	118	60.0 - 135		13C-PCB-169	81.1	40.0 - 145	
PCB-188	116	60.0 - 135		13C-PCB-188	83.8	40.0 - 145	
PCB-189	119	60.0 - 135		13C-PCB-189	83.6	40.0 - 145	
PCB-202	124	60.0 - 135		13C-PCB-202	83.3	40.0 - 145	
PCB-205	117	60.0 - 135		13C-PCB-205	74.4	40.0 - 145	
PCB-206	111	60.0 - 135		13C-PCB-206	76.6	40.0 - 145	
PCB-208	118	60.0 - 135		13C-PCB-208	76.5	40.0 - 145	
PCB-209	111	60.0 - 135		13C-PCB-209	78.1	40.0 - 145	
				Cleanup Surrogate	% Recovery	QC limits	Qual
				13C-PCB-28	92.1	15.0 - 145	
				13C-PCB-111	86.7	40.0 - 145	
				13C-PCB-178	88.7	40.0 - 145	

Analyst: 

Date: 12/16/2022

Reviewed By: 

Date: 12/16/2022

EPA Method 1668 PCBs



FAL ID: 14783-001-SA
Client ID: EB04-0.5
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: 11-29-2022
Amount: 2.02 g
% Solids: 77.11

ICal: DAILY209FAL4-12-16-22
GC Column: DB1MS
Units: pg/g

Acquired: 12-16-2022
Total Conc: 117000000

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	162	-			PCB-51	508	-		
PCB-2	63.7	-			PCB-52	136000	-	C	69
PCB-3	163	-			PCB-53	3600	-		
PCB-4	609	-			PCB-54	128	-		
PCB-5	ND	18.5	U		PCB-55	977	-		
PCB-6	294	-			PCB-56	12000	-	C	60
PCB-7	86.3	-			PCB-57	258	-		
PCB-8	620	-			PCB-58	ND	7.31		
PCB-9	90.6	-			PCB-59	-	-	C042	42
PCB-10	ND	17.6			PCB-60	-	-	C056	56
PCB-11	138	-			PCB-61	20000	-	C	70
PCB-12	166	-			PCB-62	ND	7.74		
PCB-13	111	-			PCB-63	271	-		
PCB-14	ND	18.9	U		PCB-64	-	-	C041	41/71/72
PCB-15	2220	-			PCB-65	ND	8.07		
PCB-16	534	-			PCB-66	75400	-	C	76
PCB-17	745	-			PCB-67	948	-		
PCB-18	1800	-			PCB-68	ND	6.89		
PCB-19	456	-			PCB-69	-	-	C052	52
PCB-20	1930	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	916	-			PCB-72	-	-	C041	41/64/71
PCB-23	24.1	-			PCB-73	ND	7.65		
PCB-24	146	-			PCB-74	5620	-		
PCB-25	338	-			PCB-75	-	-	C048	48
PCB-26	601	-			PCB-76	-	-	C066	66
PCB-27	129	-			PCB-77	25100	-		
PCB-28	3170	-			PCB-78	78.0	-		
PCB-29	81.9	-			PCB-79	ND	9.81		
PCB-30	ND	8.45			PCB-80	ND	6.10		
PCB-31	2150	-			PCB-81	17500	-		
PCB-32	764	-			PCB-82	22000	-		
PCB-33	-	-	C020	20/21	PCB-83	14400	-	C	112
PCB-34	32.3	-			PCB-84	709000	-	C	92
PCB-35	261	-			PCB-85	22900	-	C	116
PCB-36	33.6	-			PCB-86	ND	12.5	U	
PCB-37	2680	-			PCB-87	516000	-	C	117/125
PCB-38	143	-			PCB-88	19500	-	C	91
PCB-39	34.3	-			PCB-89	6550	-		
PCB-40	1620	-			PCB-90	4410000	-	C	101
PCB-41	16500	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	4280	-	C	59	PCB-92	-	-	C084	84
PCB-43	12800	-	C	49	PCB-93	ND	9.86		
PCB-44	14200	-			PCB-94	1800	-		
PCB-45	2300	-			PCB-95	2210000	-		
PCB-46	697	-			PCB-96	2610	-		
PCB-47	3340	-			PCB-97	184000	-		
PCB-48	4650	-	C	75	PCB-98	ND	9.35	C	102
PCB-49	-	-	C043	43	PCB-99	102000	-		
PCB-50	65.4	-			PCB-100	513	-		

EPA Method 1668 PCBs



FAL ID: 14783-001-SA
Client ID: EB04-0.5
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: 11-29-2022
Amount: 2.02 g
% Solids: 77.11

ICal: DAILY209FAL4-12-16-22
GC Column: DB1MS
Units: pg/g

Acquired: 12-16-2022

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3420000	-		
PCB-102	-	-	C098	98	PCB-152	1610	-		
PCB-103	3810	-			PCB-153	9600000	-		
PCB-104	61.0	-			PCB-154	46800	-		
PCB-105	204000	-			PCB-155	141	-		
PCB-106	1240000	-	C	118	PCB-156	990000	-		
PCB-107	55300	-	C	108	PCB-157	77300	-		
PCB-108	-	-	C107	107	PCB-158	1490000	-	C	160
PCB-109	718	-			PCB-159	114000	-		
PCB-110	2330000	-			PCB-160	-	-	C158	158
PCB-111	ND	7.46	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.89	U		PCB-163	-	-	C138	138/164
PCB-114	2620	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2250	-		
PCB-117	-	-	C087	87/125	PCB-167	497000	-		
PCB-118	-	-	C	106	PCB-168	ND	5.96		
PCB-119	4970	-			PCB-169	9550	-		
PCB-120	18600	-			PCB-170	5170000	-		
PCB-121	ND	6.90			PCB-171	2000000	-		
PCB-122	11700	-			PCB-172	1190000	-		
PCB-123	3550	-			PCB-173	163000	-		
PCB-124	96400	-			PCB-174	5290000	-		
PCB-125	-	-	C087	87/117	PCB-175	237000	-		
PCB-126	52400	-			PCB-176	848000	-		
PCB-127	783	-			PCB-177	3690000	-		
PCB-128	1050000	-	C	162	PCB-178	1140000	-		
PCB-129	281000	-			PCB-179	2190000	-		
PCB-130	356000	-			PCB-180	10300000	-		
PCB-131	245000	-	C	133	PCB-181	ND	12.4		
PCB-132	3050000	-	C	161	PCB-182	5540000	-	C	187
PCB-133	-	-	C131	131	PCB-183	3790000	-		
PCB-134	550000	-	C	143	PCB-184	3350	-		
PCB-135	1520000	-			PCB-185	749000	-		
PCB-136	1650000	-			PCB-186	ND	9.26		
PCB-137	248000	-			PCB-187	-	-	C182	182
PCB-138	10000000	-	C	163/164	PCB-188	5720	-		
PCB-139	8310000	-	C	149	PCB-189	291000	-		
PCB-140	35400	-			PCB-190	1430000	-		
PCB-141	3730000	-			PCB-191	317000	-		
PCB-142	ND	8.87			PCB-192	ND	9.74		
PCB-143	-	-	C134	134	PCB-193	744000	-		
PCB-144	921000	-			PCB-194	2080000	-		
PCB-145	632	-			PCB-195	1200000	-		
PCB-146	1700000	-	C	165	PCB-196	2380000	-	C	203
PCB-147	23800	-			PCB-197	97000	-		
PCB-148	ND	8.91			PCB-198	61300	-		
PCB-149	-	-	C139	139	PCB-199	1810000	-		
PCB-150	9130	-			PCB-200	282000	-		

EPA Method 1668 PCBs



FAL ID: 14783-001-SA
Client ID: EB04-0.5
Matrix: Soil
Batch No: X6308

Date Extracted: 12-14-2022
Date Received: 11-29-2022
Amount: 2.02 g
% Solids: 77.11

ICal: DAILY209FAL4-12-16-22
GC Column: DB1MS
Units: pg/g

Acquired: 12-16-2022

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	269000	-		
PCB-202	300000	-		
PCB-203	-	-	C196	196
PCB-204	ND	8.66		
PCB-205	136000	-		
PCB-206	329000	-		
PCB-207	49800	-		
PCB-208	46600	-		
PCB-209	4600	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.0	5.00 - 145	
13C-PCB-3	72.2	5.00 - 145	
13C-PCB-4	79.6	5.00 - 145	
13C-PCB-15	69.4	5.00 - 145	
13C-PCB-19	82.8	5.00 - 145	
13C-PCB-37	69.6	5.00 - 145	
13C-PCB-54	71.4	5.00 - 145	
13C-PCB-77	74.2	10.0 - 145	
13C-PCB-81	71.2	10.0 - 145	
13C-PCB-104	75.2	10.0 - 145	
13C-PCB-105	81.7	10.0 - 145	
13C-PCB-114	92.8	10.0 - 145	
13C-PCB-118	78.4	10.0 - 145	
13C-PCB-123	91.5	10.0 - 145	
13C-PCB-126	92.9	10.0 - 145	
13C-PCB-155	80.6	10.0 - 145	
13C-PCB-156	89.3	10.0 - 145	
13C-PCB-157	91.9	10.0 - 145	
13C-PCB-167	94.8	10.0 - 145	
13C-PCB-169	88.8	10.0 - 145	
13C-PCB-188	84.0	10.0 - 145	
13C-PCB-189	81.3	10.0 - 145	
13C-PCB-202	86.1	10.0 - 145	
13C-PCB-205	81.8	10.0 - 145	
13C-PCB-206	80.2	10.0 - 145	
13C-PCB-208	91.4	10.0 - 145	
13C-PCB-209	76.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	89.6	5.00 - 145	
13C-PCB-111	83.6	10.0 - 145	
13C-PCB-178	96.9	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 12/16/2022

Reviewed By: 
Date: 12/16/2022

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR

Frontier.

PROJECT NAME/NO.

PO #

21173

D-33

REMARKS

14783

002

Page # 1 of 1

TURNAROUND TIME

☒ Standard TAT

☐ RUSH.

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions[illegible]

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **14783**

Client:	Friedman & Bruya, Inc.
Client Project ID:	211173
Date Received:	11/29/2022
Time Received:	09:45 am
Received By:	KZ
Logged In By:	HS
# of Samples Received:	1
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	8167 7180 1964
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	
Please note that the samples were received in clear glass jars.	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 22, 2022

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on December 14, 2022 from the 1355-21001-08, F&BI 212229 project. There are 46 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW1222R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 14, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 212229 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
212229 -01	B22-0.5
212229 -02	B22-1.5
212229 -03	B22-2.5
212229 -04	B23-0.5
212229 -05	B23-1.5
212229 -06	B23-2.5
212229 -07	B24-0.5
212229 -08	B24-1.5
212229 -09	B24-2.5
212229 -10	B25-0.5
212229 -11	B25-1.5
212229 -12	B25-2.5
212229 -13	B26-0.5
212229 -14	B26-1.5
212229 -15	B26-2.5
212229 -16	B27-0.5
212229 -17	B27-1.5
212229 -18	B27-2.5
212229 -19	B28-0.5
212229 -20	B28-1.5
212229 -21	B28-2.5
212229 -22	B29-0.5
212229 -23	B29-1.5
212229 -24	B29-2.5
212229 -25	B30-0.5
212229 -26	B30-1.5
212229 -27	B30-2.5
212229 -28	B31-0.5
212229 -29	B31-1.5
212229 -30	B31-2.5
212229 -31	B33-0.5
212229 -32	B33-1.5
212229 -33	B33-2.5
212229 -34	FD-04
212229 -35	FD-05
212229 -36	Rinsate04
212229 -37	Rinsate05

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B22-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-01 1/6
Date Analyzed:	12/15/22	Data File:	121505.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.038
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B22-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-02 1/6
Date Analyzed:	12/15/22	Data File:	121506.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B22-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-03 1/6
Date Analyzed:	12/15/22	Data File:	121507.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B23-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-04 cl 1/6
Date Analyzed:	12/17/22	Data File:	121631.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	112	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B23-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-05 1/6
Date Analyzed:	12/15/22	Data File:	121509.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B23-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-06 1/6
Date Analyzed:	12/15/22	Data File:	121510.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B24-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-07 1/6
Date Analyzed:	12/15/22	Data File:	121511.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.10
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B24-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-08 1/6
Date Analyzed:	12/15/22	Data File:	121512.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	103 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B24-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-09 1/6
Date Analyzed:	12/15/22	Data File:	121513.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	109 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B25-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-10 1/6
Date Analyzed:	12/15/22	Data File:	121517.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.098
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B25-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-11 1/6
Date Analyzed:	12/15/22	Data File:	121518.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	70 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B25-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-12 1/6
Date Analyzed:	12/15/22	Data File:	121519.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B26-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-13 cl 1/6
Date Analyzed:	12/19/22	Data File:	121905.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.048
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B26-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-14 cl 1/6
Date Analyzed:	12/17/22	Data File:	121633.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105	23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B26-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-15 1/6
Date Analyzed:	12/15/22	Data File:	121522.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B27-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-16 1/6
Date Analyzed:	12/15/22	Data File:	121523.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B27-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-17 1/6
Date Analyzed:	12/15/22	Data File:	121524.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	68 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B27-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-18 1/6
Date Analyzed:	12/15/22	Data File:	121525.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B28-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-19 1/6
Date Analyzed:	12/16/22	Data File:	121606.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B28-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-20 1/6
Date Analyzed:	12/16/22	Data File:	121607.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B28.2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-21 1/6
Date Analyzed:	12/16/22	Data File:	121608.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B29-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-22 1/6
Date Analyzed:	12/16/22	Data File:	121609.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B29-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-23 1/6
Date Analyzed:	12/16/22	Data File:	121610.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B29-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-24 1/6
Date Analyzed:	12/16/22	Data File:	121611.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B30-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-25 1/6
Date Analyzed:	12/16/22	Data File:	121612.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B30-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-26 1/6
Date Analyzed:	12/16/22	Data File:	121613.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B30-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-27 1/6
Date Analyzed:	12/16/22	Data File:	121617.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B31-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-28 1/6
Date Analyzed:	12/16/22	Data File:	121618.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.12
Aroclor 1260	0.44
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B31-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-29 1/6
Date Analyzed:	12/16/22	Data File:	121619.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.091
Aroclor 1260	0.97
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B31-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-30 1/6
Date Analyzed:	12/16/22	Data File:	121620.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B33-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-31 1/6
Date Analyzed:	12/16/22	Data File:	121621.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.2 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B33-0.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	212229-31 1/60
Date Analyzed:	12/19/22	Data File:	121906.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95 d	29	154

Compounds:	Concentration
	mg/kg (ppm)
Aroclor 1260	1.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B33-1.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-32 1/6
Date Analyzed:	12/16/22	Data File:	121622.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B33-2.5	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-33 1/6
Date Analyzed:	12/16/22	Data File:	121623.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD-04	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-34 1/6
Date Analyzed:	12/16/22	Data File:	121624.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD-05	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	212229-35 1/6
Date Analyzed:	12/16/22	Data File:	121625.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/14/22	Lab ID:	02-2997 mb2 1/6
Date Analyzed:	12/15/22	Data File:	121504.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105 ca	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/15/22	Lab ID:	02-3006 mb 1/6
Date Analyzed:	12/16/22	Data File:	121605.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	29	154

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Rinsate04	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/16/22	Lab ID:	212229-36
Date Analyzed:	12/17/22	Data File:	121628.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	52	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Rinsate05	Client:	Evren Northwest
Date Received:	12/14/22	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/16/22	Lab ID:	212229-37
Date Analyzed:	12/17/22	Data File:	121629.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	55	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 212229
Date Extracted:	12/16/22	Lab ID:	02-3010 mb
Date Analyzed:	12/16/22	Data File:	121604.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	44	25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/22/22

Date Received: 12/14/22

Project: 1355-21001-08, F&BI 212229

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	122	128	55-137	5
Aroclor 1260	mg/kg (ppm)	0.25	125	128	51-150	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/22/22

Date Received: 12/14/22

Project: 1355-21001-08, F&BI 212229

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 212229-25 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	105	106	29-125	1
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	104	105	25-137	1

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	120	55-137
Aroclor 1260	mg/kg (ppm)	0.25	121	51-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/22/22

Date Received: 12/14/22

Project: 1355-21001-08, F&BI 212229

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 212108-01 1/0.5 (Matrix Spike) 1/0.5

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	<0.0035	66	62	50-150	6
Aroclor 1260	ug/L (ppb)	0.13	<0.0035	83	78	50-150	6

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	ug/L (ppb)	0.13	66	25-165
Aroclor 1260	ug/L (ppb)	0.13	83	25-163

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212229

SAMPLE CHAIN OF CUSTODY

12/14/22

12/15

Page # 1 of 4

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@evren-nw.com

SAMPLERS (signature)

PROJECT NAME

1355-21001-08

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Project Specific Rls - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B22-0.5	01	12-13-22	10:25	50'1	1							
B22-1.5	02	12-13-22	10:28	50'1	1							
B22-2.5	03	12-13-22	10:32	50'1	1							
B23-0.5	04	12-13-22	10:52	50'1	1							
B23-2.5	05	12-13-22	10:44	50'1	1							
B23-2.5	06	12-13-22	10:46	50'1	1							
B24-0.5	07	12-13-22	11:12	50'1	1							
B24-2.5	08	12-13-22	11:10	50'1	1							
B24-2.5	09	12-13-22	11:09	50'1	1							
B25-0.5	10	12-13-22	11:36	50'1	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Jordan Allen

Evren Northwest

12-13-22

10:00

Received by:

ANH PHAM

F815

12/14/22

10:00

Relinquished by:

Received by:

Samples received at 4 °C

14 AP

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

212829

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynng@evren-nw.com

SAMPLE CHAIN OF CUSTODY

12/14/22

I21G5

Page # 2 of 4

SAMPLERS (signature)

PROJECT NAME

1355-21001-08

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Project Specific RIs - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B25-1.5	11	12-13-22	11:33	5011	1							
B25-2.5	12	12-13-22	11:32	5011	1							
B26-0.5	13	12-13-22	12:40	5011	1							
B26-1.5	14	12-13-22	12:37	5011	1							
B26-2.5	15	12-13-22	12:34	5011	1							
B24-0.5	16	12-13-22	12:11	5011	1							
B24-1.5	17	12-13-22	12:08	5011	1							
B24-2.5	18	12-13-22	12:03	5011	1							
B28-0.5	19	12-13-22	11:54	5011	1							
B28-2.5	20	12-13-22	11:52	5011	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: Jordan Morris

Jordan Morris

Euren Northwest

12-13-22

18:00

Received by:

JML

AMPHAN

F8B

12/14/22

10:00

Relinquished by:

Received by:

Samples received at 4°C

2122229

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@g@evren-nw.com

SAMPLE CHAIN OF CUSTODY

12/14/22

I2145

Page # 3 of 4

SAMPLERS (signature)

PROJECT NAME

1355-24002-06

PO #

REMARKS

INVOICE TO

TURNAROUND TIME

Standard Turnaround

RUSH

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B28-2.5	21	12-13-22	11:50	Soil	1							
B29-0.5	22	12-13-22	13:12	Soil	1							
B29-1.5	23	12-13-22	13:39	Soil	1							
B29-2.5	24	12-13-22	13:35	Soil	1							
B30-0.5	25	12-13-22	13:18	Soil	1							
B30-1.5	26	12-13-22	13:15	Soil	1							
B30-2.5	27	12-13-22	13:12	Soil	2							
B31-0.5	28	12-13-22	12:59	Soil	1							
B31-1.5	29	12-13-22	12:57	Soil	1							
B31-2.5	30	12-13-22	12:54	Soil	1							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bryna, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *Jordan Morris*

Jordan Morris

Even Northwest

12-13-22

18:00

Received by: *Paul*

ANHPHAN

F85

12/14/22

10:00

Relinquished by:

Samples received at 4

C

Received by:

Samples received at 4

C

212229

SAMPLE CHAIN OF CUSTODY

12/14/22

12/15

Page # 4 of 4

Report To Lynn Green

Company EVREN-NW

Address 40 SE 24th Ave

City, State, ZIP Portland, Oregon 97214

Phone 503-452-5561 Email lynn@g@evren-nw.com

SAMPLES (signature)

PROJECT NAME

1355-21002-06

PO #

REMARKS

INVOICE TO

Project Specific RLS - Yes / No

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B33-0.5	31	12-13-22	14:00	Soil	1						X					
B33-1.5	32	12-13-22	13:58	Soil	1						X					
B33-2.5	33	12-13-22	13:55	Soil	1						X					
FD-04	34	12-13-22	8:00	Soil	1						X					
FD-05	35	12-13-22	16:00	Soil	1						X					
FINISATE04	36	12-13-22	11:45	Water	1						X					
FINISATE05	37	12-13-22	13:32	Water	1						X					

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: *Jordan Morris*

Jordan Morris

Evan McArthur

12-13-22

10:00

Received by: *AMH PHAN*

AMH PHAN

E8 B

12/14/22

10:00

Relinquished by:

Received by:

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 6, 2023

Lynn Green, Project Manager
Evren Northwest, Inc.
PO Box 14488
Portland, OR 97293

Dear Mr Green:

Included are the results from the testing of material submitted on January 24, 2023 from the 1355-21001-08, F&BI 301349 project. There are 40 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Neil Woller, Paul Trone, Evan Bruggeman
ENW0206R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 24, 2023 by Friedman & Bruya, Inc. from the Evren Northwest 1355-21001-08, F&BI 301349 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Evren Northwest</u>
301349 -01	EB40-0.5
301349 -02	EB40-1.5
301349 -03	EB40-2.5
301349 -04	EB41-0.5
301349 -05	EB41-1.5
301349 -06	EB41-2.5
301349 -07	EB42-0.5
301349 -08	EB42-1.5
301349 -09	EB42-2.5
301349 -10	EB43-0.5
301349 -11	EB43-1.5
301349 -12	EB43-2.5
301349 -13	EB44-0.5
301349 -14	EB44-1.5
301349 -15	EB44-2.5
301349 -16	EB45-0.5
301349 -17	EB45-1.5
301349 -18	EB45-2.5
301349 -19	EB46-0.5
301349 -20	EB46-1.5
301349 -21	EB46-2.5
301349 -22	EB47-0.5
301349 -23	EB47-1.5
301349 -24	EB47-2.5
301349 -25	FD-07
301349 -26	Rinsate-07

Aroclor 1016 in the 8082A soil matrix spike duplicate exceeded the acceptance criteria. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

The 8082 water laboratory control sample and laboratory control sample duplicate failed the relative percent difference for Aroclor 1016 and 1260. PCBs were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/23

Date Received: 01/24/23

Project: 1355-21001-08, F&BI 301349

Date Extracted: 02/01/23

Date Analyzed: 02/01/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
EB42-0.5 301349-07	ND	ND	ND	90
EB42-1.5 301349-08	ND	ND	ND	95
EB42-2.5 301349-09	ND	ND	ND	91
EB43-0.5 301349-10	ND	ND	ND	90
EB43-1.5 301349-11	ND	ND	ND	94
EB43-2.5 301349-12	ND	ND	ND	92
EB46-0.5 301349-19	ND	ND	ND	93
EB46-1.5 301349-20	ND	ND	ND	94
EB46-2.5 301349-21	ND	ND	ND	94
EB47-0.5 301349-22	ND	ND	ND	94
EB47-1.5 301349-23	ND	ND	ND	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/23

Date Received: 01/24/23

Project: 1355-21001-08, F&BI 301349

Date Extracted: 02/01/23

Date Analyzed: 02/01/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
EB47-2.5 301349-24	ND	ND	ND	91
Method Blank 03-300 MB	ND	ND	ND	93

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB40-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-01 1/6
Date Analyzed:	01/27/23	Data File:	012713.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154
DCB	75	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.024
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB40-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-02 1/6
Date Analyzed:	01/27/23	Data File:	012714.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	29	154
DCB	63	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB40-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-03 1/6
Date Analyzed:	01/27/23	Data File:	012715.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154
DCB	73	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB41-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-04 1/6
Date Analyzed:	01/27/23	Data File:	012716.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	29	154
DCB	62	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB41-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-05 1/6
Date Analyzed:	01/27/23	Data File:	012717.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154
DCB	78	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB41-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-06 1/6
Date Analyzed:	01/27/23	Data File:	012718.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	29	154
DCB	56	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB42-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-07 1/6
Date Analyzed:	01/27/23	Data File:	012719.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154
DCB	70	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB42-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-08 1/6
Date Analyzed:	01/27/23	Data File:	012720.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154
DCB	79	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB42-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-09 1/6
Date Analyzed:	01/27/23	Data File:	012721.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	41	29	154
DCB	77	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB43-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-10 1/6
Date Analyzed:	01/27/23	Data File:	012722.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	29	154
DCB	82	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.52
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB43-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-11 1/6
Date Analyzed:	01/27/23	Data File:	012724.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	29	154
DCB	86	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB43-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-12 1/6
Date Analyzed:	01/27/23	Data File:	012725.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	29	154
DCB	78	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB44-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-13 1/600
Date Analyzed:	01/30/23	Data File:	013034.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154
DCB	100 d	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<2
Aroclor 1232	<2
Aroclor 1016	<2
Aroclor 1242	<2
Aroclor 1248	<2
Aroclor 1254	<2
Aroclor 1260	63
Aroclor 1262	<2
Aroclor 1268	<2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB44-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-14 1/6
Date Analyzed:	01/27/23	Data File:	012727.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154
DCB	46	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.2 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB44-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-14 1/60
Date Analyzed:	01/30/23	Data File:	013033.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154
DCB	105 d	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1260	2.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB44-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-15 1/6
Date Analyzed:	01/27/23	Data File:	012728.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	29	154
DCB	65	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.16
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB45-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-16 1/600
Date Analyzed:	01/30/23	Data File:	013035.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154
DCB	100 d	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<2
Aroclor 1232	<2
Aroclor 1016	<2
Aroclor 1242	<2
Aroclor 1248	<2
Aroclor 1254	<2
Aroclor 1260	130 ve
Aroclor 1262	<2
Aroclor 1268	<2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB45-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-16 1/3000
Date Analyzed:	02/01/23	Data File:	020112.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	0 d	23	120
DCB	250 d	47	114

Compounds:	Concentration mg/kg (ppm)
Aroclor 1260	130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB45-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-17 1/6
Date Analyzed:	01/27/23	Data File:	012730.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	29	154
DCB	44	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	1.0 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB45-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-17 1/12
Date Analyzed:	01/30/23	Data File:	013031.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86 d	29	154
DCB	77 d	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1260	1.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB45-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-18 1/6
Date Analyzed:	01/27/23	Data File:	012731.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	29	154
DCB	62	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.91
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB46-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-19 1/6
Date Analyzed:	01/27/23	Data File:	012732.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	29	154
DCB	48	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	3.8 ve
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB46-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-19 1/60
Date Analyzed:	01/30/23	Data File:	013032.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 d	29	154
DCB	105 d	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1260	4.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB46-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-20 1/6
Date Analyzed:	01/27/23	Data File:	012733.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154
DCB	55	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.19
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB46-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-21 1/6
Date Analyzed:	01/27/23	Data File:	012735.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	29	154
DCB	79	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.26
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB47-0.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-22 1/6
Date Analyzed:	01/27/23	Data File:	012736.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	29	154
DCB	67	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	0.12
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB47-1.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-23 1/6
Date Analyzed:	01/27/23	Data File:	012737.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	29	154
DCB	68	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EB47-2.5	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-24 1/6
Date Analyzed:	01/27/23	Data File:	012738.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	29	154
DCB	63	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	FD-07	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	301349-25 1/6
Date Analyzed:	01/27/23	Data File:	012739.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	29	154
DCB	78	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	03-245 mb 1/6
Date Analyzed:	01/27/23	Data File:	012704.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	106	29	154
DCB	99	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/26/23	Lab ID:	03-246 mb 1/6
Date Analyzed:	01/27/23	Data File:	012707.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	29	154
DCB	101	11	152

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Rinsate-07	Client:	Evren Northwest
Date Received:	01/24/23	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/27/23	Lab ID:	301349-26
Date Analyzed:	01/30/23	Data File:	013008.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	34	24	127
DCB	23	19	54

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Evren Northwest
Date Received:	Not Applicable	Project:	1355-21001-08, F&BI 301349
Date Extracted:	01/27/23	Lab ID:	03-281 mb
Date Analyzed:	01/30/23	Data File:	013004.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	45	24	127
DCB	35	19	54

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/23

Date Received: 01/24/23

Project: 1355-21001-08, F&BI 301349

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 301349-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	106	110 vo	44-107	4
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	104	109	38-124	5

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	118	47-158
Aroclor 1260	mg/kg (ppm)	0.25	115	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/23

Date Received: 01/24/23

Project: 1355-21001-08, F&BI 301349

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 301349-22 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	101	112 vo	44-107	10
Aroclor 1260	mg/kg (ppm)	0.25	0.11	85 b	107 b	38-124	23 b

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	116	47-158
Aroclor 1260	mg/kg (ppm)	0.25	112	69-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/23

Date Received: 01/24/23

Project: 1355-21001-08, F&BI 301349

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	76	41	25-111	60 vo
Aroclor 1260	ug/L (ppb)	0.25	74	38	23-123	64 vo

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Report To Lynn Green 301349

Company Euren Northwest

Address P.O. Box 14486

City, State, ZIP Portland, OR 97243

Phone (503) 442-5566 Email lynn@green-nw.com

01/24/23 C2/B3
Page # 1 of 3

SAMPLERS (signature) Jordan Morris
PROJECT NAME 435-21001-06
PO #

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

☒ Standard turnaround
☐ RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
☐ Archive samples
☐ Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
EB40-0.5	01	01-23-23	10:30	Soil	1					X			(X) per LG/EG 2/1/23 ME
EB40-1.5	02	01-23-23	10:28	Soil	1					X			
EB40-2.5	03	01-23-23	10:27	Soil	1					X			
EB41-0.5	04	01-23-23	10:10	Soil	1					X			
EB41-1.5	05	01-23-23	10:08	Soil	1					X			
EB41-2.5	06	01-23-23	10:05	Soil	1					X			
EB42-0.5	07	01-23-23	10:53	Soil	1			(X)		X			
EB42-1.5	08	01-23-23	10:51	Soil	1			(X)		X			
EB42-2.5	09	01-23-23	10:49	Soil	1			(X)		X			
EB43-0.5	10	01-23-23	10:25	Soil	1			(X)		X			

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedmann & Bruya, Inc.

Ph. (206) 285-8282

Relinquished by: Jordan Morris

Received by: ANVHPHAN

Relinquished by: Euren Northwest 01/23-23 12:00

Received by: EB4 01/24/23 10:27

Received by:

Samples received at 1 °C

301349

Report to ~~Robert~~ GreenCompany ~~Green~~ AlsthusenAddress ~~PO Box 14486~~City, State, ZIP ~~Portland, OR 97293~~Phone ~~(503) 552-5564~~ Email ~~lynn@green-nr.com~~

SAMPLE CHAIN OF CUSTODY

01/24/23

Cd/B3

Page # 2 of 3

SAMPLERS (signature)

PROJECT NAME

1355-21001-08

PO #

REMARKS

INVOICE TO

Project specific RLS? Yes / No

TURNAROUND TIME

☒ Standard turnaround
☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples
☐ Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
EB43-1.5	11	01-23-23	12:22	Soil	1				☒				
EB43-2.5	12	01-23-23	12:20	Soil	1			☒					
EB44-0.5	13	01-23-23	13:35	Soil	1								
EB44-1.5	14	01-23-23	13:14	Soil	1								
EB44-2.5	15	01-23-23	13:13	Soil	1								
EB45-0.5	16	01-23-23	13:31	Soil	1								
EB45-1.5	17	01-23-23	13:30	Soil	1								
EB45-2.5	18	01-23-23	13:28	Soil	1								
EB46-0.5	19	01-23-23	14:58	Soil	1			☒					
EB46-1.5	20	01-23-23	14:57	Soil	1			☒					

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: Received by: 

Jordan Morris

ANH PHAN

Green Alsthusen

F&B

01/24/23

10:27

Received by:

Samples received at 100

Friedmann & Bruya, Inc.
Ph. (206) 285-8282

C2/B3

3

PO #

155-21001-08

INVOICE TO

Project specific RIs? - Yes / No

TURNAROUND TIME
☒ Standard turnaround
☐ RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____
Default: Dispose after 30 days

[illegible]

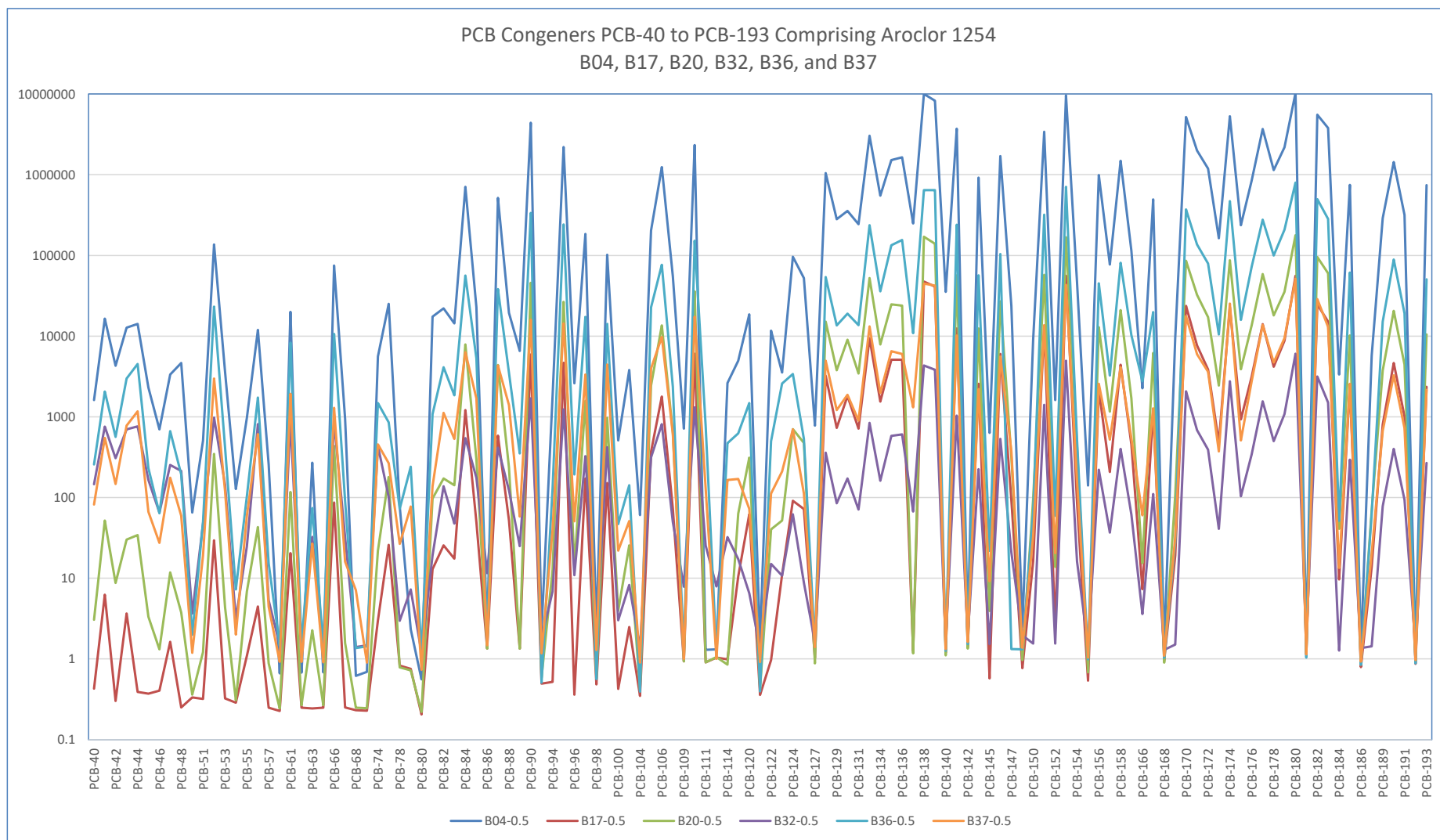
Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE		PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	<i>[Signature]</i>				
Received by:	<i>[Signature]</i>	Jordan Morris	Erin Abquest	01-23-23	10:00
Relinquished by:	<i>[Signature]</i>	ANH PHAN	FSB	01/24/23	10:27
Received by:					
Samples received at 100					

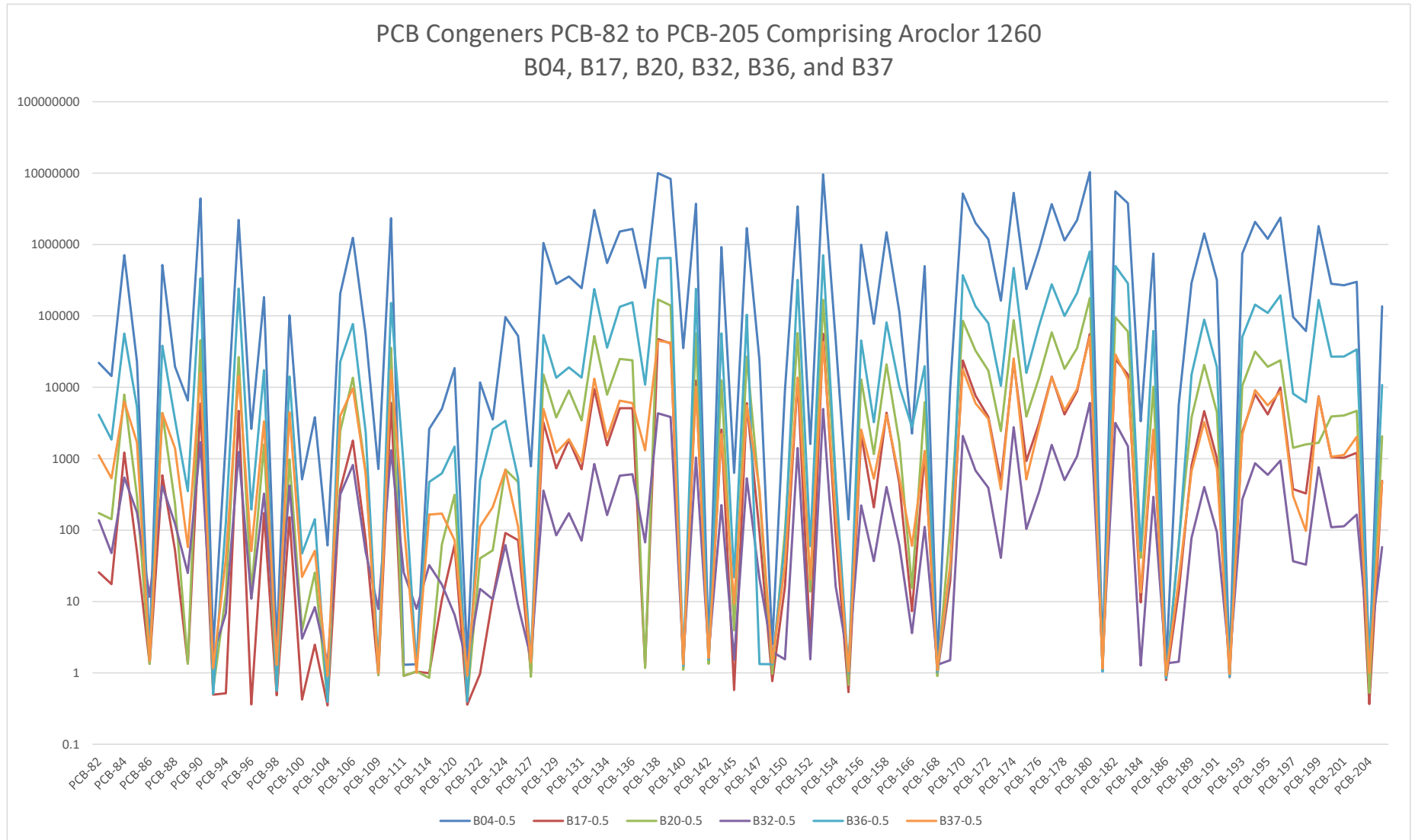
Appendix D

PCB Congener Correlation Plots

Correlation Chart E-1



Correlation Chart E-2



Correlation Chart E-3

