



FOCUSED RIGHT-OF-WAY INVESTIGATION



FUTURE KIDDIE ACADEMY PROPERTY

8701 Greenwood Avenue North
Seattle, WA 98103

Prepared for:



Attn: Maninder Singh

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Suite-108

Kirkland, Washington 98033

Issued on:

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This

Focused Right-of-Way Investigation

Report for:

Future Kiddie Academy Property

8701 Greenwood Avenue North
Seattle, Washington 98103

Has been prepared for the sole benefit and use of our Client:

and its assignees



Attn: Maninder Singh

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Suite-108

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Issued April 7, 2022 by:



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EXP. 12/14/2022



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List of Acronyms and Abbreviations

| | |
|--------------------|--|
| bgs | below ground surface |
| Client | Kiddie Academy |
| COPCs | constituents of potential concern |
| cPAHS hydrocarbons | carcinogenic polynuclear aromatic hydrocarbons |
| CSM | conceptual site model |
| CULs | cleanup levels |
| DRO | diesel-range organics |
| Ecology | Washington Department of Ecology |
| ENW | EVREN Northwest, Inc. |
| EPA Agency | US Environmental Protection Agency |
| ft ² | square foot |
| ft/ft | vertical foot per lineal foot |
| GRO | gasoline-range organics |
| MRL | method reporting limit |
| µg/L | micrograms per liter |
| mg/Kg | milligrams per Kilogram |
| mL/min | milliliters per minute |
| MTCA | Model Toxics Control Act |
| PAH hydrocarbon | polynuclear aromatic hydrocarbon |
| PCS | petroleum-contaminated soil |
| PID | photoionization detector |
| PQL | practical quantitation limit |
| ROW | right-of-way |
| RRO | residual (oil)-range organics |
| SOW | scope of work |
| SWI | soil-water interface |
| TOC | total organic carbon |
| TPH | total petroleum hydrocarbons |
| USGS | U.S. Geological Survey |
| VOCs | volatile organic constituents |
| WAC | Washington Administrative Code |

1.0 Introduction

At the request of Kiddie Academy (Client), EVREN Northwest, Inc. (ENW) has prepared this report documenting a Focused Right-of-Way (ROW) Investigation of the commercial property located at 8701 Greenwood Avenue North in Seattle, Washington (the “subject property”) (see Figures 1 and 2). The scope of work completed during this investigation further assesses the data gaps identified in ENW’s Work Plan¹ to fulfill Washington Department of Ecology’s (Ecology’s) requirements² pursuant to Client’s plans to redevelop the subject property.

This report summarizes previous environmental work and describes the investigation scope of work, findings, and conclusions. This work was authorized by Client on December 29, 2021.

2.0 Background

Site background is detailed in ENW’s previously submitted *Data Gap Investigation Work Plan*¹ (Work Plan). Based on this history, ENW prepared the Work Plan, which is the basis of the scope of work (SOW) outlined in the following section and followed in the ground water sampling activities presented in this report.

2.1 Purpose

The SOW described below was designed to address Ecology’s comments as outlined in ENW’s Work Plan and support state cleanup requirements of Ecology’s Model Toxics Control Act (MTCA), Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 Washington Administrative Code (WAC).

3.0 Scope of Work

This work was performed in accordance with the SOW outlined in ENW’s proposed cost estimate submitted on December 22, 2021.

The SOW included the following tasks:

- Obtained Street Use Permit No. SUUTIL0007232 from Seattle Department of Transportation to authorize work in the public ROW. Obtained signage and implemented a traffic control plan, which included sidewalk and parking closures.
- Contracted a driller to advance three temporary direct-push soil borings for collection of five discrete soil samples for laboratory analysis of gasoline-range organics (GRO), diesel-range organics (DRO), residual (oil)-range organics (RRO), and related constituents.

¹ ENW, December 8, 2021. December 2021 Work Plan for Focused Data Gap Investigation, Future Kiddie Academy, Former Texaco #2111544, 8701 Greenwood Avenue North, Seattle, Washington, Facility/Site ID# 6416: Prepared for Kiddie Academy.

² Ecology, March 8, 2021. Response to Change of Use Request at the Following Cleanup Site: Name: Texaco 211544, Address: 8701 Greenwood Ave N, Seattle, Washington, Facility/Site No.: 63538329, Cleanup Site ID No.: 6416.

- Set temporary well points in each of the borings, purged, and collected three (3) ground water samples for analysis of GRO, DRO, and RRO and related constituents.
- Submitted samples to an independent laboratory under chain-of-custody protocols for appropriate analysis.
- Evaluated analytical results with respect to Washington regulatory standards and Ecology guidance documents.
- Prepared this report documenting site conditions and findings.

4.0 Site Setting

A conceptual site model (CSM) is presented in ENW's Work Plan. Key elements of the CSM are summarized in this section.

Site and Vicinity General Description. The subject property is located on the northwest corner of the intersection of Greenwood Avenue N and N 87th Street in the Greenwood neighborhood of North Seattle, Washington. The site is located approximately six miles north-northwest of downtown Seattle, Washington and approximately four miles west of Lake Washington. The King County Assessor's Office identifies the site as parcel number 2920700030 and describes the property as rectangular in shape and 32,728 square feet in area.

The subject property is in a mixed residential and commercial area of King County. The site is bordered to the north by single-family residence, west by an alley beyond which are single-family residences, to the east by Greenwood Avenue North, beyond which is a vacant commercial building and parking lot, and to the south by N 87th Avenue, beyond which is a multi-family residential building and street-level retail businesses.

The subject property was developed in 1997 with the current commercial building in the southern portion of the site. Other site improvements include an asphalt-paved parking lot in the northern portion of the site, drainage features and landscaped areas.

Geographic Setting. According to the U.S. Geological Survey (USGS) Seattle North, Washington 7.5-minute quadrangle (Figure 1), the subject property lies at an approximate elevation of 260 feet above mean sea level. Topography in the area of the subject property is indicated as sloping gently to the west-southwest.

Geologic Setting. Seattle is within the Puget Lowland, an elongate structural and topographic basin between the Cascade Range and Olympic Mountains. The Seattle area has experienced repeated glacial advancements during the past 2 million years causing cyclic glacial scouring and deposition and later modified by landslides and stream erosion. Seattle is located on a complex succession of glacial and nonglacial deposits that overlie an irregular bedrock surface. According to the Geologic Map of Northeastern Seattle (Part of the Seattle North 7.5' x 15' Quadrangle),³ the upper most geology beneath the site is mapped as Holocene age Peat deposits, which are accumulations of wood and other plant material forming layers of greater than about 1 meter (3.3 feet) thickness and of mappable extent. These

³ Booth, D.B., Goetz, K., Schimel, S.A., 2009, Geologic Map of Northeastern Seattle (Part of the Seattle North 7.5' x 15' Quadrangle), King County, Washington: U.S. Geological Survey Scientific Investigations Map 3065, Map 1:24,000.

units are gradational within other non-glacial deposits. The mapped stratigraphy underlying these surficial deposits are mapped as Pleistocene age glacial deposits consisting of glacially transported silt, sand and sub-rounded to well-rounded gravel.

Previous investigations have identified a silt and peat layer present between approximately seven and 15 feet below ground surface (bgs) that appears to act as a confining layer separating lower saturated soils from the overlying vadose zone. Between 14 and 17 feet bgs across the site there is a transition to a gray gravel/silt hard pan layer with relatively high density compared to overlying native sediments.

Hydrogeology. No surface water bodies, lagoons, or manmade drainages are located on the subject property. The nearest surface water body is Green Lake, located approximately 0.95 miles southeast of the site. Well log data in the area indicates ground water occurs as shallow as 4 feet bgs. Previous investigations reported first ground water in borings occurring at the site between nine and 17 feet bgs. Shallow ground water has been reported to occur within a silty sand layer located directly above a sand and gravel hardpan layer at depth. Shallow ground water within glacial deposits in the Seattle area commonly occurs as a seasonal perched ground water table recharged primarily by infiltrating precipitation during the wet season. At the subject site, first ground water was generally encountered within silts and sands below the overlying peat layer. Ground water has been reported to recharge slowly into existing monitoring wells. Stabilized static ground water levels in monitoring wells have been reported ranging from approximately 0.0 feet bgs to seven feet bgs. During the January 26, 2022, ground water monitoring event, depth to water in monitoring wells WELL-1 through WELL-13 ranged from 0.00 feet to 2.78 feet below top of well casing. Inferred ground water elevation contours suggested a south-southwesterly flow at a gradient of 0.52 vertical feet per lineal foot (ft/ft) across the southern portion of the site, while a west-southwesterly ground water flow direction at a gradient of 0.044 ft/ft was suggested across the northern portion of the site.⁴

Constituents of Potential Concern (COPCs). According to ENW's Work Plan for this portion of the site:

- On-site gasoline service station-related COPCs, include GRO, DRO, RRO, volatile organic constituents (VOCs), and polynuclear aromatic hydrocarbons (PAHs).

Nature and Extent and Associated Data Gaps. Data gaps being addressed in this SOW are associated with the nature and extent of petroleum impacts in soil and ground water, as follows:

- **Soil.** Confirmation soil data collected by other following a soil removal action in the southeast corner of the site suggest the presence of residual GRO and RRO in soil at concentrations greater than MTCA method A clean-up levels (CULs) at depths between 5 and 6 feet bgs. The extent of impacts at the southeast corner of the property represents a soil data gap.
- **Ground Water.** No ground water data was collected during previous investigations in the southeast portion of the subject site where residual impacts of GRO and RRO remain in soil. Therefore, it was not known if shallow ground was impacted in this area of the site and if that altered the extent of impact.

⁴ ENW, February 28, 2022. *Ground Water Monitoring: First Quarter 2022*, Future Kiddie Academy Property, 8701 Greenwood Avenue North, Seattle, Washington 98103: Prepare for Kiddie Academy, Attn: Maninder Singh.

5.0 Methods and Procedures

This section describes the methods and procedures used to conduct the SOW. Field activities are documented in the photographic log included as Appendix A.

5.1 Work Objectives

The objective of this work was to quantitatively determine whether hazardous substances may be present in the subsurface beneath the ROW area in the southeast portion subject site, and if their presence could potentially be considered an environmental concern. In addition, the following general objectives were followed:

- To perform the work efficiently and cost-effectively, minimizing interference with any site operations.
- To perform the work in a safe manner for technical personnel and site employees / visitors.
- To document information and data generated in a professional manner that is valid for the intended use.

The remainder of this section describes the methods and procedures used for this investigation. A photographic log of all the field work is presented in Appendix A, soil boring logs are included in Appendix B, Field Data Sampling Sheets are included in Appendix C, and laboratory analytical reports are included in Appendix D. Findings are presented in Section 6.

5.2 Preparation Activities

ENW performed or coordinated the following activities prior to conducting field activities:

Plan Preparation. In-house Sampling and Analysis Plan was prepared for the project, which followed the previously prepared Work Plan, but was specific to this SOW.

ROW Permitting. Obtained Street Use Permit No. SUUTIL0007232 from Seattle Department of Transportation to authorize work in the public ROW.

One Call Notification. Prior to any subsurface site work, a call was placed with One Call Utility Notification Service to identify and locate all public utilities near each of the proposed sampling locations.

Planning. ENW scheduled and coordinated with the Client to begin site work.

5.3 Soil Borings

ENW strategically advanced two soil borings in the ROW at the southeast corner of the site (NW corner of intersection) and one boring in the ROW at the south side of N 87th Street (SW corner of intersection) to delineate the lateral and vertical extents of impacts downgradient of the former on-site gas station. Borings EB01 through EB03 were advanced on March 15, 2022, using a track mounted direct-push technology drill rig operated by Standard Probe of Seattle, Washington. Borings were advanced to a maximum depth of 16 feet bgs in locations shown on the Sample Location Diagram on Figure 3.

Field methods are described further in the following paragraphs. The results of laboratory analysis of soil and ground water samples are presented in Section 6.0.

Soil Screening and Logging. Soil cores and samples were field screened continuously from the surface to the total depth of each boring for the presence of contaminants. Semi-quantitative headspace screening was also performed on each sample core by placing selected soil samples in a plastic sealed bag, breaking the soil core to expose surface area inside the bag, and inserting a photoionization detector (PID) tip into the top of the bag. Soil cores were logged by an ENW Geologist (Appendix B). Soils were classified using the Unified Soil Classification System and complemented with descriptors such as grain size, moisture content, foreign clasts, and other physical properties to describe underlying stratigraphy.

Soil Sampling. Grab samples were collected from each boring for laboratory analysis from zones indicated to be impacted. In the absence of obvious soil impacts, soil samples were collected from immediately above the soil/water interface (SWI). Individual soil samples are designated with the sample's depth appended to the boring number (e.g., EB01/5-7 would indicate a sample collected from 5 to 7 feet bgs in boring EB01). Soil samples collected from the SWI were further designated with the letters "SWI" (e.g., EB01-SWI/14 would indicate a sample collected from the SWI in boring EB01).

Soil samples were transferred with fresh Nitrile gloves into sample containers provided by the laboratory. The containers were filled to minimize headspace before immediate sealing. The samples were immediately labeled and placed in cooled storage until they were delivered to the laboratory following chain-of-custody protocols.

Reconnaissance Ground Water Sampling. Borings were advanced approximately five feet below the first observed water-bearing zone. Reconnaissance ground water samples were collected by retracting the drill stem from the boring and installing a new temporary polyvinyl chloride well screen into the open borehole. The depth to water was measured and then new dedicated low-density polyethylene tubing was inserted into the well screen and attached to a peristaltic pump at the surface. A low flow of approximately 200 milliliters per minute (mL/min) was used to purge approximately three liters from the well, and then ground water samples were collected in laboratory-supplied containers. Samples were labeled to indicate the boring number and depth to bottom of screened interval.

Ground water monitoring results were recorded onto Field Sampling Data Sheets included as Appendix C.

Boring Completion. All borings were backfilled with hydrated bentonite chips to just below ground surface, and the asphalt pavement surface was restored.

5.4 Laboratory Analysis

Soil and ground water samples were analyzed by Friedman and Bruya, Inc. of Seattle, Washington. Samples were analyzed according to the analytical plan presented in Table 5-1. Laboratory analytical reports, including quality assurance/quality control procedures and results are included in Appendix D.

Table 5-1. Analytical Methods Used

| Analytical Method | Constituents | Soil | Water |
|---------------------------------------|--|--------------------|---|
| NWTPH-Gx | Northwest Total Petroleum Hydrocarbons – Gasoline-Range Organics (GRO) | All soil samples | All samples |
| NWTPH-Dx | Northwest Total Petroleum Hydrocarbons – Diesel-Range Organics (DRO) and Residual-Range Organics (RRO) | All soil samples | All samples |
| EPA 8260D | GRO-Related Volatile Organic Constituents (VOCs) | All soil samples | All samples |
| EPA 8270E SIM | Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs) | All soil samples | All samples |
| EPA 9060 | Total Organic Carbon | Select soil sample | -- |
| NWTPH-Dx following silica gel cleanup | Extracts Passed through Silica Gel Column Prior to Analysis | -- | Water samples with indication of matrix interference based on communication with laboratory |

EPA = US Environmental Protection Agency

5.5 Cleanup Standards

The State of Washington MTCA Regulations (Chapter 173-340 WAC) sets numeric cleanup levels for “routine cleanup actions”. “Routine cleanup actions” are defined as those sites where: 1) cleanup standards for each hazardous substance are obvious and undisputed, allowing for an adequate margin of safety for protection of human health and the environment; 2) does not require preparation of an environmental impact statement, and 3) qualifies for an exclusion from conducting a terrestrial ecological evaluation. CULs are defined as the concentration of a hazardous substance in soil, water, air, or sediment that is determined to be protective of human health and the environment under specified exposure conditions. MTCA’s three (3) methods for establishing cleanup levels are briefly described below.

Method A: Method A provides tables of cleanup levels that are protective of human health for the most common hazardous substances found in soil and ground water at sites. Note that these levels were developed by procedures of Method B. The Method A cleanup must meet the concentrations listed in the Method A table and, if not listed in the table, the concentration standards established under applicable state or federal laws. If neither the Method A table nor applicable state and federal laws provide an appropriate cleanup level, then natural background concentration or the practical quantitation limit (PQL) may be used as the cleanup level. Method A is the simplest, most streamlined approach to cleanup, but is meant to be applied with sites that have releases of only a few, common, hazardous substances.

Method B: Method B provides cleanup levels using risk assessment equations developed for various exposure pathways, as well as by using standards specified by applicable state and federal laws. Standard Method B uses generic default assumptions; Modified Method B uses chemical-specific and/or site-specific parameters in calculating the cleanup levels. Natural background concentrations and PQLs are also considered in this method. Method B is considered the universal approach to site closure and is the method most commonly used.

5.6 Investigation Derived Waste Disposal

Investigation-derived waste (soil cuttings, purge water, decontamination fluids) were temporarily placed inside Department of Transportation approved 55-gallon drums and stored on site pending receipt of analytical results.

The drums and their contents will be disposed of at an appropriate disposal facility after a disposal profile has been approved.

6.0 Findings

This section describes the findings of site activities. The results of laboratory analysis of the soil and reconnaissance ground water samples are summarized in Tables 1 and 2, respectively (following the Tables Tab after text). Site photographs of field activities are included in Appendix A. Copies of soil boring logs are included in Appendix B. Field sampling data sheets are included in Appendix C. Copies of the Laboratory Reports are included in Appendix D.

6.1 Soil Boring Investigation

ENW advanced three soil borings on March 15, 2022. Boring locations are presented on Figure 3 and soil and ground water samples collected from the borings are summarized in Table 6-1.

Table 6-1. Summary of Sampling

| Sample Location Identification | Date Sampled | Depth Sampled (feet bgs) | Sampled by: | Location and Comments |
|------------------------------------|--------------|--------------------------|-------------|---|
| Soil | | | | |
| EB01 | 3/15/2022 | 5-7' | ENW | N of sidewalk, S of building, ~20' W of crosswalk (area where residual impacts suggested present following previous soil removal action in this area) |
| | 3/15/2022 | 9 | ENW | |
| | 3/15/2022 | 14 | ENW | |
| EB02 | 3/15/2022 | 13.5 | ENW | N side of 87th St in ROW, W side of crosswalk |
| EB03 | 3/15/2022 | 12 | ENW | S side of 87th in parking lane, W side of crosswalk |
| Reconnaissance Ground Water | | | | |
| EB01 | 3/15/2022 | 16 | ENW | N of sidewalk, S of building, ~35' W of crosswalk |
| EB02 | 3/15/2022 | 16 | ENW | N side of 87th St in ROW, W side of crosswalk |
| EB03 | 3/15/2022 | 16 | ENW | S side of 87th in parking lane, W side of crosswalk |

Borings encountered unconsolidated to consolidated fine- to coarse-grained sediments associated with a glacial outwash environment. Most notably was the presence of a substantial, organic-rich peat layer beginning as shallow as 1.5 feet bgs and extending to as deep as 14 feet bgs in all three borings. Boring logs describe a strong odor of decaying organic matter. The peat layer overlain a silty fine sand layer, which was underlain by a highly plastic silt/clay unit.

Shallow ground water was first encountered within the peat layer at approximately nine to 10 feet bgs but produced insufficient water for sampling. Greater yields were found within the underlying silty sands. Evidence of vadose zone petroleum impacts was observed in boring EB01 within the upper part of the peat layer and within the peat at the soil/water interface at nine feet bgs. Soil samples EB01/5-7, EB01/9 and EB01-SWI/14 were collected from EB01 to document the presence of petroleum impacts. No field

evidence of petroleum impacts was noted in EB02 or EB03. In the absence of obvious soil impacts, soil samples were collected from the SWI in borings EB02 and EB03.

6.2 Laboratory Results – Soil

The results of laboratory analysis for five soil samples are presented in Table 1 and summarized below. Boring locations are shown on the Sample Location Diagram on Figure 3.

6.2.1 Petroleum Hydrocarbons

Five soil samples were analyzed for GRO, DRO and RRO and results are provided in Table 1.

- GRO was detected at 190 milligram per kilogram (mg/Kg) in EB01/9 south of the building at the first-encountered ground water, which slightly exceeded the MTCA Method A ground water CUL of 100 mg/Kg. GRO was not detected above the laboratory method reporting limits (MRLs) in EB01/5-7, EB01-SWI-14, EB02-SWI/13.5 (20 feet to the southeast of EB01), or EB03-SWI/12 (30 feet to the south-southeast of EB02).
- DRO was also present in EB01/5-7 at a concentration of 680 mg/Kg and in EB01/9 at 2,600 mg/Kg. DRO was not reported above the laboratory MRL in EB01/14. DRO only exceeded its MTCA Method A CUL of 2000 mg/Kg in EB01/9. DRO was not detected above laboratory MRLs in boring EB02 or EB03, located to the east and south, respectively, of EB01.
- RRO was not detected in any of the borings completed for this SOW.

Based on presence of GRO and DRO above MTCA Method A CULs in soil, all soil samples were further analyzed for GRO- and DRO-related constituents.

6.2.2 GRO-Related VOCs

All soil samples were analyzed for GRO-related VOCs by EPA Method 8260D. Of the five soil samples analyzed, only EB01/9 reported VOCs above laboratory MRLs, though detected VOC constituents cumene and 1,3,5-trimethylbenzene were below their respective MTCA Method A CULs.

6.2.3 Carcinogenic Polynuclear Aromatic Hydrocarbons

Since PAHs can be associated with residual DRO, all soil samples were conservatively analyzed for carcinogenic PAHs (cPAHs) by EPA Method 8270E. Further analysis did not detect any cPAHs above their respective MRLs in any of the soil samples.

6.3 Laboratory Results – Reconnaissance Ground Water

The results of laboratory analysis for three reconnaissance ground water samples are presented in Table 2 and summarized below. Boring locations are shown on the Sample Location Diagram on Figure 3.

6.3.1 Petroleum Hydrocarbons

Three soil samples were analyzed for GRO, DRO and RRO and results are provided in Table 2.

- GRO was below laboratory MRL in all three samples.

- DRO was detected in EB01 and EB02 at 120 micrograms per liter ($\mu\text{g/L}$) and a laboratory-flagged concentration of 78 $\mu\text{g/L}$, respectively. The “x” qualifier is used by the laboratory to indicate a chromatographic signature not typical of the petroleum product being analyzed. Neither DRO concentration exceeded the MTCA Method A ground water CUL of 500 $\mu\text{g/L}$.
- RRO was not detected above laboratory MRLs in any of the samples.

As it is possible for degraded wood residue to affect concentrations of heavier petroleum analysis, ENW requested the laboratory to evaluate the chromatographic patterns of select samples.

To quantify the effects of biogenic carbon materials, the ground water sample from EB02 was re-analyzed with a silica gel filter to screen out biogenic material. Results of further analysis indicated the following:

- DRO concentrations dropped from a maximum of 78 $\mu\text{g/L}$ to below laboratory MRL of 75 $\mu\text{g/L}$ in the sample from EB02.
- RRO remained below the laboratory MRL in the sample from EB02.

ENW requested further analysis of EB02-SWI/13.5 to quantify the total organic carbon (TOC) content of soil at the SWI as a possible source of biogenic material in ground water. Analysis using EPA Method 9060 of the sample measured TOC at 0.391%-dry weight (3910 mg/Kg), which is under the range of 0.5% to 3.0% for most upland soils and falls in the range of desert soils.⁵ While TOC is low in EB02-SWI/13.5, a significant source of TOC can be found in the 11-foot-thick organic-rich peat layer immediately overlying this silty sand. Thus, TOC is likely interfering with the DRO detection in the unfiltered reconnaissance ground water sample from EB02, and the DRO result of the sample filtered through silica gel is likely more representative.

6.3.2 GRO-Related VOCs

Three ground water samples were analyzed for GRO-related VOCs. As indicated in Table 2, all GRO-related VOCs were below laboratory MRLs in samples EB01 through EB03.

6.3.3 Carcinogenic Polynuclear Aromatic Hydrocarbons

Three ground water samples were analyzed for cPAHs. As indicated in Table 2, all cPAHs were below laboratory MRLs in samples EB01 through EB03.

7.0 Current Understanding of Magnitude and Extent of Contamination

Findings of soil and reconnaissance ground water sampling demonstrate lateral delineation of soil and ground water impacts at the southeastern portion of the subject property.

7.1 Soil

Soil analytical results suggest the presence of residual GRO- and DRO-impacted soil at five to nine feet bgs within the peat layer at EB01, in which impacts were not detected in the sample collected at 14 feet bgs at the SWI in EB01. Thus, the vertical extent of petroleum-contaminated soil (PCS) appears to be less than

⁵ wikipedia.org/wiki/Soil_carbon

14 feet bgs at EB01. No field evidence of petroleum-related VOCs was suggested in the peat layer 20 feet to the southeast at EB02 or 50 feet to the southeast at EB03 (see boring logs Appendix B), and no petroleum hydrocarbons were detected above laboratory MRLs at the SWI in sample EB02-SWI/13.5 or EB03-SWI/12. The estimated extent of residual PCS covers an approximately 350 square foot (ft²) area around EB01 south of excavation 1A and west of excavation 1B (Figure 3).

7.2 Ground Water

Reconnaissance ground water data suggest the occurrence of DRO impacts in the area of EB01 at a concentration less than the MTCA Method A CUL. However, no DRO impacts were reported in reconnaissance ground water collected at EB02 (after silica gel cleanup) or at EB03 located respectively 20 feet and 50 feet southeast of EB01.

8.0 Conclusions and Recommendations

During March 2022, ENW mobilized to the site to collect soil and ground water samples in the public ROW near in the southeast corner of the subject property where previous sampling from utility excavations had encountered GRO- and RRO-impacted soil above the MTCA Method A soil CUL. During advancement of the borings, a relatively thin zone of petroleum-impacted soil was observed in one of the three borings near the soil/water interface.

Soil samples were collected from areas of visible impacts in boring EB01 and from the SWI in the remaining borings since there were not field evidence of impacts in these borings and submitted for laboratory analysis. Only one sample (EB01/9) collected from boring EB01 near the southern property boundary contained a GRO concentration of 190 mg/Kg and a DRO concentration of 2,600 mg/Kg, exceeding their respective MTCA Method A soil CULs. All other analyte concentrations in remaining samples collected from borings EB01 through EB03 were below MTCA method A CULs. The estimated extent of residual PCS covers an approximately 350 sf area around EB01 south of excavation 1A and west of excavation 1B (Figure 3).

In ground water, only DRO was detected in EB01 at a concentration below the MTCA Method A CUL. DRO was not detected in EB02 or EB03, suggesting that DRO-impacted ground water occurs only in the area of EB01 and does not extend off-site to the southeast. Given the high organic content of the underlying soils (peat), ground water impacts are likely localized to the EB01 location and collocated with soil impacts.

8.1 Recommendations

Based on the above findings and conclusions, residual PCS near the southeast corner of the property has been vertically and laterally delineated, with no suggestion of extensive migration of petroleum impacts from the former excavation area. While GRO and DRO impacts exceed MTCA Method A CULs for soils, these impacts occur at a depth of approximately 5 to 9 feet bgs and are limited to an area beneath the city sidewalk/street ROW area and north-adjacent landscaped strip next to the on-site building where extensive utilities are present. Recent on-site sub-slab vapor sampling results do not suggest the occurrence of petroleum-related VOCs beneath the southeast building corner (SUB03) at concentrations

greater than MTCA Method B CULs.⁶ Therefore, no further investigation is recommended in relation to residual petroleum hydrocarbon at the southeast corner of the site.

However, ENW recommends preparation of a Contaminated Media Management Plan to inform decisions related to managing, characterizing, and disposing of residual contaminated media, including these residual GRO and DRO impacted soils, encountered during future redevelopment, construction and/or excavation at the subject property.

We recommend this report is kept as part of the permanent property records.

9.0 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 work does not extend to the presence of the following conditions:

1. Naturally occurring toxic or hazardous substances in the subsurface soils, geology, and water,
2. Toxicity of substances common in current habitable environments, such as stored chemicals, products, building materials and consumables,
3. Contaminants or contaminant concentrations that are not a concern now but may be under future regulatory standards,
4. 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 has 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. 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.

⁶ ENW, February 23, 2022. *Focused Sub-Slab Vapor Investigation*, Future Kiddie Academy Property, 8701 Greenwood Avenue North, Seattle, Washington 98103: Prepared for Kiddie Academy, Attn: Maninder Singh.

Table 1 - Summary of Analytical Data, Soil

| Sample ID | EB01/5-7 | EB01/9 | EB01-SWI/14 | EB02-SWI/13.5 | EB03-SWI/12 | Maximum Residual Soil Concentration (detected) | MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses ¹ | MTCA Method B Soil Cleanup Levels (if Method A not available) ¹ | MTCA Method B Soil Cleanup Levels (iProtectiveness of Ground Water - vadose zone soil) ¹ | Constituent of Potential Concern (COPC, exceeds Method A or B CULs)? | |
|---|---|-------------|-------------|---|---|--|---|--|---|--|-------|
| Date Sampled | 3/15/2022 | 3/15/2022 | 3/15/2022 | 3/15/2022 | 3/15/2022 | | | | | | |
| Depth Sampled (feet) | 5-7' | 9 | 14 | 13.5 | 12 | | | | | | |
| Sampled by: | ENW | ENW | ENW | ENW | ENW | | | | | | |
| Location | N of sidewalk, S of building, ~35' W of crosswalk | | | N side of 87th St in ROW, W side of crosswalk | S side of 87th in parking lane, W side of crosswalk | | | | | | |
| 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) | Y / N |
| Volatile Organic Constituents (VOCs) | | | | | | | | | | | |
| Benzene | c, v | <0.03 (ND) | <0.03 (ND) | <0.03 (ND) | <0.03 (ND) | <0.03 (ND) | <0.03 (ND) | 0.03 | 18 | 0.027 | N |
| Ethylene dibromide (EDB) | c, v | <0.005 (ND) | <0.005 (ND) | <0.005 (ND) | <0.005 (ND) | <0.05 (ND) | <0.05 (ND) | 0.005 | 0.5 | 0.00027 | (Y) |
| Dichloroethane;1,2- | c, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | NE | 11 | 0.023 | N |
| Ethylbenzene | nc, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 6 | 8000 | 5.9 | N |
| Methyl tert-butyl ether | c, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 0.1 | 560 | 0.1 | N |
| Naphthalene | c, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 5 | 1600 | 4.5 | N |
| Cumene | nc, v | <0.05 (ND) | 0.082 | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 0.082 | NE | 8000 | 15 | N |
| Propylbenzene;n- | nc, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | NE | 8000 | 16 | N |
| Toluene | nc, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 7 | 6400 | 4.5 | N |
| Trimethylbenzene;1,2,4- | nc, v | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | NE | 800 | 1.3 | N |
| Trimethylbenzene;1,3,5- | nc, v | <0.05 (ND) | 0.14 | <0.05 (ND) | <0.05 (ND) | <0.05 (ND) | 0.14 | NE | 800 | 1.3 | N |
| Xylenes | nc, v | <0.15 (ND) | <0.15 (ND) | <0.15 (ND) | <0.15 (ND) | <0.15 (ND) | <0.15 (ND) | 9 | 16000 | 14 | N |

Table 1 - Summary of Analytical Data, Soil

| Sample ID | EB01/5-7 | EB01/9 | EB01-SWI/14 | EB02-SWI/13.5 | EB03-SWI/12 | Maximum Residual Soil Concentration (detected) | MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses ¹ | MTCA Method B Soil Cleanup Levels (if Method A not available) ¹ | MTCA Method B Soil Cleanup Levels (iProtectiveness of Ground Water - vadose zone soil) ¹ | Constituent of Potential Concern (COPC, exceeds Method A or B CULs)? | |
|--|---|-------------|-------------|---|---|--|---|--|---|--|----------|
| Date Sampled | 3/15/2022 | 3/15/2022 | 3/15/2022 | 3/15/2022 | 3/15/2022 | | | | | | |
| Depth Sampled (feet) | 5-7' | 9 | 14 | 13.5 | 12 | | | | | | |
| Sampled by: | ENW | ENW | ENW | ENW | ENW | | | | | | |
| Location | N of sidewalk, S of building, ~35' W of crosswalk | | | N side of 87th St in ROW, W side of crosswalk | S side of 87th in parking lane, W side of crosswalk | | | | | | |
| 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) | Y / N |
| Polyaromatic Hydrocarbons | | | | | | | | | | | |
| Benzo[a]anthracene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| Benzo[a]pyrene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | 0.1 (**) | 0.19 (**) | 3.9 (**) | --- |
| Benzo[b]fluoranthene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| Benzo[k]fluoranthene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| Chrysene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| Dibenz[a,h]anthracene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| Indeno[1,2,3-cd]pyrene | c, nv | <0.2 (ND) | <0.2 (ND) | <0.01 (ND) | <0.01 (ND) | <0.01 (ND) | <0.2 (ND) | ** | ** | ** | --- |
| TEQ ¹ | | | | | | | <0.251 (ND) | 0.1 (**) | 0.19 (**) | 3.9 (**) | (Y) |
| Total Petroleum Hydrocarbons | | | | | | | | | | | |
| TPH: gasoline range organics, benzene present | nc, v | <20 (ND) | 190 | <5 (ND) | <5 (ND) | <5 (ND) | 190 | 100 | NE | NE | Y |
| TPH, diesel range organics | nc, nv | 680 | 2600 | <50 (ND) | <50 (ND) | <50 (ND) | 2600 | 2000 | NE | NE | Y |
| TPH, heavy oils | nc, nv | <1000 (ND) | <1000 (ND) | <250 (ND) | <250 (ND) | <250 (ND) | <1000 (ND) | | | | |
| General Chemistry | | | | | | | | | | | |
| Total Organic Carbon | nc, nv | --- | --- | --- | 3910 | --- | --- | | | | |

Notes:

ND = not detected at or above laboratory method reporting limits
(Y) indicates analyte not detected, but detection limit is above screening concentration.
--- = not analyzed or not applicable.
< = not detected at or above the method reporting limit shown.
NE = not established.
mg/Kg = milligram per kilogram.
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
DRO = diesel-range organics.
RRO = residual-range organics.
Bolded concentrations exceed either MTCA Cleanup Levels.
** Cleanup level of carcinogenic PAHs based on the quotient of their Toxicity Equivalency with respect to Benzo(a)pyrene
TEQ = Toxicity Equivalency Quotient per Ecology¹
TEF = Toxicity Equivalency Factor per Ecology¹
1. Ecology, April 20, 2015. Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs): Implementation Memorandum #10.

Table 2 - Summary of Analytical Data, Reconnaissance Ground Water

| Location ID | EB01 | EB02 | EB03 | Maximum Ground Water Concentration | MTCA Method A Cleanup Levels for Ground Water (Unrestricted Land Use) | MTCA Method B Cleanup Levels for Ground Water (lowest) | Constituent of Potential Concern (COPC)? ³ | |
|---|---|---|---|------------------------------------|---|--|---|-----|
| Sample ID | EB01-GW-16 | EB02-GW-16 | EB03-GW-16 | | | | | |
| Date Sampled | 3/15/2022 | 3/15/2022 | 3/15/2022 | | | | | |
| Sampler | ENW | ENW | ENW | | | | | |
| Depth Sampled (feet) | 16 | 16 | 16 | | | | | |
| Location | N of sidewalk, S of building, ~35' W of crosswalk | N side of 87th St in ROW, W side of crosswalk | S side of 87th in parking lane, W side of crosswalk | | | | | |
| Constituent of Interest | Note | µg/L (ppb) | µg/L (ppb) | µg/L (ppb) | µg/L (ppb) | µg/L (ppb) | Y/N | |
| Volatile Organic Constituents (VOCs) | | | | | | | | |
| Benzene | c, v | <0.35 (ND) | <0.35 (ND) | <0.35 (ND) | <0.35 (ND) | 5 | 0.8 | N |
| Ethylene dibromide (EDB) | c, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | 0.01 | 0.022 | (Y) |
| Dichloroethane;1,2- (EDC) | c, v | <0.2 (ND) | <0.2 (ND) | <0.2 (ND) | <0.2 (ND) | 5 | 0.48 | N |
| Ethylbenzene | c, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | 700 | 800 | N |
| Methyl tert-butyl ether (MTBE) | c, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | 20 | 24 | N |
| Naphthalene | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | 160 | 160 | N |
| Cumene | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | NE | 800 | N |
| Propylbenzene;n- | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | NE | 800 | N |
| Toluene | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | 1000 | 640 | N |
| Trimethylbenzene;1,2,4- | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | NE | 80 | N |
| Trimethylbenzene;1,3,5- | nc, v | <1 (ND) | <1 (ND) | <1 (ND) | <1 (ND) | NE | 80 | N |
| Xylenes | nc, v | <3 (ND) | <3 (ND) | <3 (ND) | <3 (ND) | 1000 | 1600 | N |

Table 2 - Summary of Analytical Data, Reconnaissance Ground Water

| Location ID | EB01 | EB02 | EB03 | Maximum Ground Water Concentration | MTCA Method A Cleanup Levels for Ground Water (Unrestricted Land Use) | MTCA Method B Cleanup Levels for Ground Water (lowest) | Constituent of Potential Concern (COPC)? ³ | |
|---|---|---|---|------------------------------------|---|--|---|-----|
| Sample ID | EB01-GW-16 | EB02-GW-16 | EB03-GW-16 | | | | | |
| Date Sampled | 3/15/2022 | 3/15/2022 | 3/15/2022 | | | | | |
| Sampler | ENW | ENW | ENW | | | | | |
| Depth Sampled (feet) | 16 | 16 | 16 | | | | | |
| Location | N of sidewalk, S of building, ~35' W of crosswalk | N side of 87th St in ROW, W side of crosswalk | S side of 87th in parking lane, W side of crosswalk | | | | | |
| Polyaromatic Hydrocarbons (Carcinogenic) | | | | | | | | |
| Benz[a]anthracene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| Benzo[a]pyrene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | 0.1 (**) | 0.023 (**) | --- |
| Benzo[b]fluoranthene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| Benzo[k]fluoranthene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| Chrysene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| Dibenz[a,h]anthracene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| Indeno[1,2,3-cd]pyrene | c, nv | <0.02 (ND) | <0.04 (ND) | <0.02 (ND) | <0.04 (ND) | ** | ** | --- |
| TEQ ¹ | | | | <0.0302 (ND) | 0.1 (**) | 0.023 (**) | | (Y) |
| Total Petroleum Hydrocarbons | | | | | | | | |
| GRO | nc, v | <100 (ND) | <100 (ND) | <100 (ND) | <100 (ND) | 1000 | NE | N |
| DRO | nc, nv | 120 | 78 x | <50 (ND) | 120 | 500 | NE | N |
| | | | <75 (ND) (*) | | | | | |
| RRO | nc, nv | <250 (ND) | <380 (ND) | <250 (ND) | <380 (ND) | | | |
| | | | <380 (ND) (*) | | | | | |

Notes:

— = not analyzed or not applicable.

ND = not detected at or above the method reporting limit (MRL) or practical quantitation limit (PQL) shown

NE = not established.

(Y) indicates analyte not detected, but detection limit is above screening concentration.

µg/L = micrograms per Liter

c = carcinogenic

nc = noncarcinogenic

v = volatile

nv = nonvolatile

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

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual (oil)-range organics.

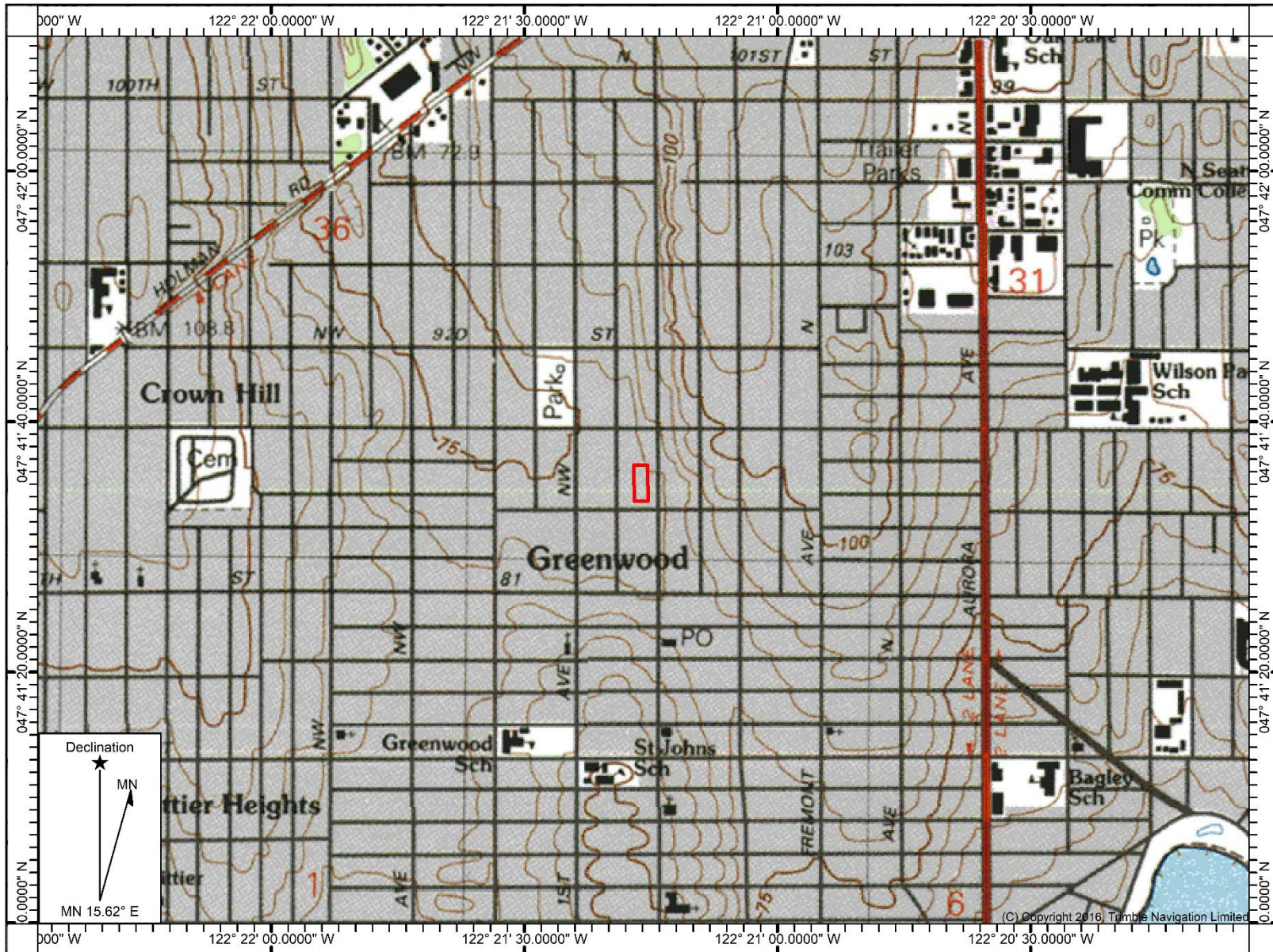
* Sample Extract passed through a silica gel column prior to analysis.

** Cleanup level of carcinogenic PAHs based on the quotient of their Toxicity Equivalency with respect to Benzo(a)pyrene

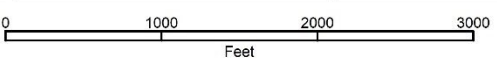
TEF = Toxicity Equivalency Factor per Ecology¹

TEQ = Toxicity Equivalency Quotient per Ecology¹

1. Ecology, April 20, 2015. Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs): Implementation Memorandum #10.



Name: SEATTLE NORTH
Date: 09/20/21



Location: 047° 41' 35.3419" N, 122° 21' 15.9186" W
Contour Interval: 16 ft

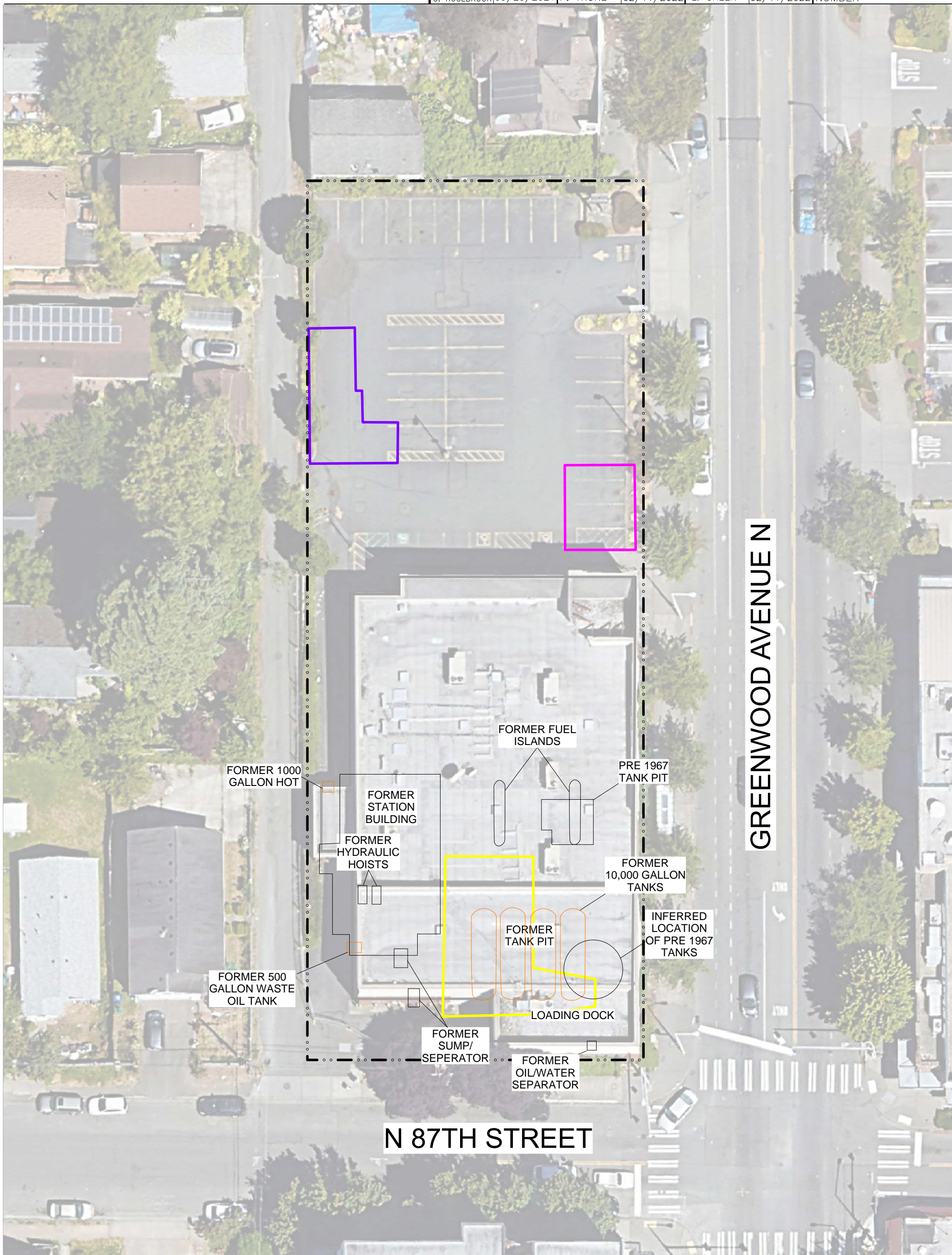


Date Drawn: 4/6/2022
CAD File Name: 1581-21001-01_fig1sv_map
Drawn By: CLR
Approved By: LDG






Future Kiddie Academy Property
8701 Greenwood Avenue N
Seattle, Washington

Site Vicinity Map

Project No.
1581-21001
Figure No.
1



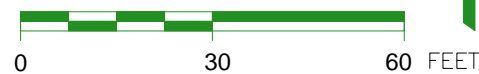
LEGEND:

-  SUBJECT BUILDINGS
 -  SUBJECT PROPERTY BOUNDARIES
 -  FORMER GAS STATION PER 1950 HISTORICAL SANBORN MAP
 -  FORMER VANITY CLEANERS PER CITY DIRECTORY 1951-1955, LOCATION BASED ON 1950-1966 SANBORN MAP
 -  FORMER LAUNDRY PER 1930 HISTORICAL SANBORN MAP
- * FORMER FEATURES PER 1994 EMCON NORTHWEST INC. AND TEXACO 1991 AND ENVIRO. RESOLUTION INC. 1994 AND 1996

NOTES:

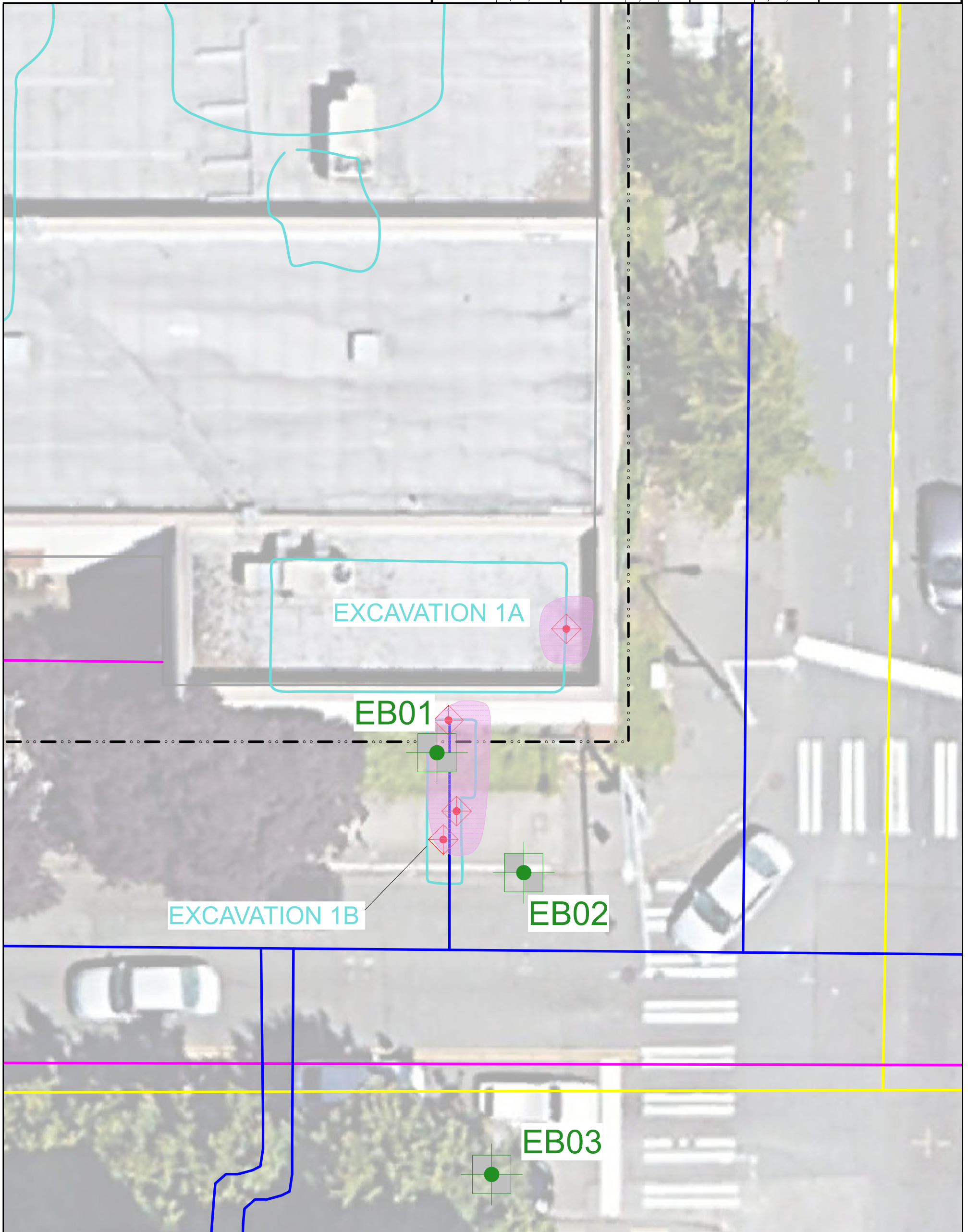
1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2019 AND ENW FIELD NOTES.
2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.

APPROXIMATE SCALE














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

FIGURE 2
SITE PLAN WITH HISTORICAL FEATURES OF INTEREST
FUTRUE KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

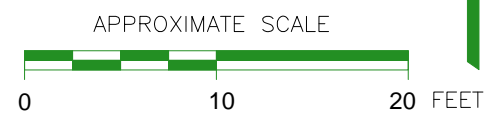


LEGEND:

- | | | | |
|--|---|---|---------------------|
|  | SUBJECT BUILDING |  | SANITARY SEWER PIPE |
|  | SUBJECT PROPERTY BOUNDARIES |  | WATER LINE |
|  | PRIOR PCS EXCAVATION MARGINS |  | GAS LINE |
|  | MONITORING WELL LOCATION PER ENVIRONMENTAL SPECIALTIES MAY 2021 | | |
|  | MONITORING WELL LOCATION PER ENVIRONMENTAL RESOLUTIONS INC. | | |
|  | ENW BORING LOCATION | | |
|  | ENVIRO. RESOLUTION INC. SOIL SAMPLE LOCATION REMAINING FOLLOWING 1996 EXCAVATION EXCEEDING MTCA CUL | | |
|  | INFERRED AREA OF RESIDUAL PETROLEUM IMPACTED SOIL EXCEEDING MTCA METHOD A CUL FOR GRO AND/OR DRO | | |

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2019 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.



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

FIGURE 3

SAMPLE LOCATION DIAGRAM

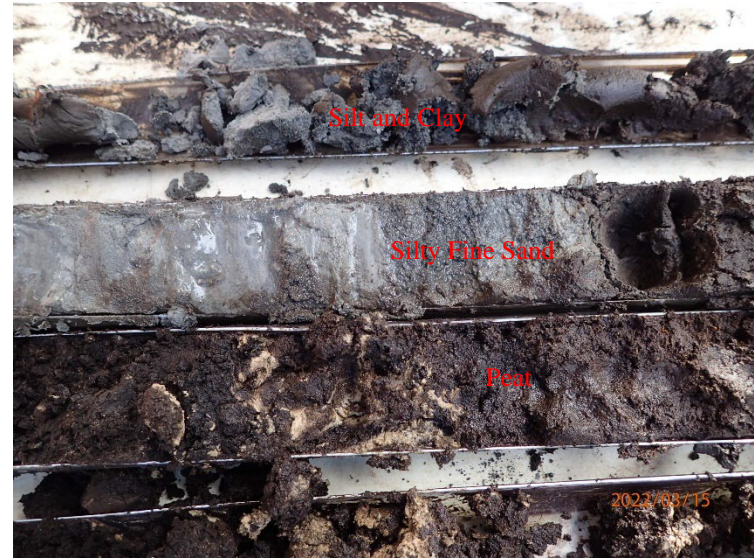
PROPOSED KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

Appendix A

Site Photographs



View east of drill rig set up on boring location EB01.



Closer view of peat, silty sand, and clay soils encountered in the three soil borings at the site.



Soil cores retrieved inside 4-foot-long plastic sleeves were accessed to perform field screening and collect soil samples.



A PID being used to measure headspace for field screening of soil contaminants.

| | | | |
|--|---|------------------------------------|--|
| | <p>Future Kiddie Academy Property 8701 Greenwood Avenue N Seattle, Washington</p> | <p>Site Photographs</p> | <p>Project No. 1581-21001-02 Appendix A</p> |
|--|---|------------------------------------|--|



Reconnaissance ground water sample collected from EB01 with a peristaltic pump using low-flow purge and sampling methodology.



View east at drill rig set up at EB02 in the parking strip near the southeast corner of the onsite building.



Close-up view of thick layer of peat encountered in all borings.



Close-up view of silty sand soils directly underlying the peat layer.



Future Kiddie Academy Property
8701 Greenwood Avenue N
Seattle, Washington

**Site
Photographs**

Project No.
1581-21001-02

Appendix
A



Gray, highly plastic clay soils were encountered at the bottom of the borings.



Ground water sampling at EB02.




View south of drill rig set up at boring EB03 on the south parking strip of 87th Avenue.



Following sampling activities, borings were backfilled and sealed at the surface.



Investigation derived waste (soil and water) was placed in drums and left on site pending receipt of laboratory results.

| | | | |
|--|--|-----------------------------|------------------------------|
|  environmental, natural resource consultants | Future Kiddie Academy Property 8701 Greenwood Avenue N Seattle, Washington | Site Photographs | Project No. 1581-21001-02 |
| | | | Appendix A |




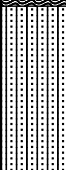

Appendix B

Soil Boring Logs



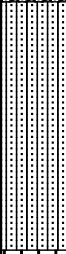

| | | | | | | | |
|--|--|---|--------------------|------------------------------|-------------|---------------------------|----------------------------|
| DRILL LOG | | PROJECT Focused Subsurface Investigation | | PROJECT NO. 1581-21001-02 | | BORING NO. EB01 | |
| SITE 8701 Greenwood Ave N., Seattle, WA | | BEGUN 3/15/22 | | COMPLETED 3/15/22 | | HOLE SIZE 2in | |
| COORDINATES | | DEPTH GROUND WATER | DATE SL 3/15/22 | STATIC LEVEL 5.52 | FIRST WATER | | GROUND ELEVATION |
| DRILLER Standard Probe | | CORE RECOVERY (%) | | # SAMPLES | | # CORE BOXES | DEPTH TOP OF ROCK |
| DRILL MAKE AND MODEL | | LOGGED BY: E.Bruggeman | | | | | DEPTH BOTTOM OF HOLE 16 |

| 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 | | | SAND (SW); medium brown; fine to coarse-grained sand; some silt; medium dense; slightly moist | | | 50 | | | |
| 2.5 | | | | | | | | 0.0 | |
| 5 | | | PEAT; dark brown; moist; soft organic rich; petroleum odor; poor recovery | EB01/5-7 | soil | 35 | | 21.3 | |
| 7.5 | | | | | | | | | |
| 10 | | | wet but not produceable | EB01/9 | soil | | | 15.2 | |
| 12.5 | | | 1 inch thick layer of sand; tan; fine-grained sand | | | 90 | | | |
| 15 | | | strong decay/organic odor (methane?) | | | | | 0.0 | |
| 15 | | | Silty fine SAND (SM); light gray; medium dense; grain size gets finer with depth. | EB01-SW/14 | soil | 100 | | | Reconn ground water sample collected |
| 17.5 | | | SILT and CLAY (MH); light gray; high plasticity; soft to medium stiff; wet End of boring | | | | | 0.0 | |

| | | | | | | | |
|--|--|---|--------------------|------------------------------|-------------|---------------------------|----------------------------|
| DRILL LOG | | PROJECT Focused Subsurface Investigation | | PROJECT NO. 1581-21001-02 | | BORING NO. EB02 | |
| SITE 8701 Greenwood Ave N., Seattle, WA | | BEGUN 3/15/22 | | COMPLETED 3/15/22 | | HOLE SIZE 2in | |
| COORDINATES | | DEPTH GROUND WATER 3/15/22 | DATE SL 3/15/22 | STATIC LEVEL 9.85 | FIRST WATER | | GROUND ELEVATION |
| DRILLER Standard Probe | | CORE RECOVERY (%) | | # SAMPLES | | # CORE BOXES | DEPTH TOP OF ROCK |
| DRILL MAKE AND MODEL | | LOGGED BY: E.Bruggeman | | | | | DEPTH BOTTOM OF HOLE 16 |

| 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 | |  | | | | | | | |
| | |  | SAND (SW); light brown; fine to coarse sand; some silt; medium dense; slightly moist | | | | | | |
| 2.5 | |  | PEAT; dark brown; moist; soft | | | 50 | | | |
| | | | strong odor of decay/organics/methane(?) | | | | | 0.1 | |
| 5 | | | grades to medim brown | | | | | | |
| | | | very moist | | | | | 0.2 | |
| 7.5 | | | | | | | | | |
| 10 | | | 3 inch thick sand layer; tan; fine-grained; moist | | | 100 | | | |
| | | | | | | | | 0.0 | |
| 12.5 | | | | | | | | | |
| | |  | Silty fine SAND (SM); light gray; soft; medium dense | EB02-SWI/13.5 | soil | 100 | | 0.0 | |
| 15 | |  | End of boring | | | | | 0.0 | reconn ground water sample collected |
| 17.5 | | | | | | | | | |

| | | | | |
|------------------------------------|----------------------------------|-------------|---------------|----------------------|
| DRILL LOG | PROJECT | PROJECT NO. | | BORING NO. |
| | Focused Subsurface Investigation | | 1581-21001-02 | EB03 |
| SITE | BEGUN | COMPLETED | HOLE SIZE | ANGLE FROM HORIZ. |
| 8701 Greenwood Ave N., Seattle, WA | 3/15/22 | 3/15/22 | 2in | |
| COORDINATES | DEPTH GROUND WATER | DATE SL | STATIC LEVEL | FIRST WATER |
| | | 3/15/22 | 6.98 | |
| DRILLER | CORE RECOVERY (%) | # SAMPLES | # CORE BOXES | DEPTH TOP OF ROCK |
| Standard Probe | | | | |
| DRILL MAKE AND MODEL | LOGGED BY: | | | DEPTH BOTTOM OF HOLE |
| | E.Bruggeman | | | 16 |

| 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 | | | Asphalt over concrete | | | | | | |
| | |  | SAND (SW); light brown; fine to coarse grained sand; medium dense; dry | | | | | | |
| 2.5 | |  | PEAT; dark brown; moist; soft | | | 35 | | 0.0 | |
| 5 | | | decay/organic odor (methane?) | | | | | | |
| 7.5 | | | 2 inch thin sand layer; tan | | | | | 0.0 | |
| 10 | | | | | | 100 | | | |
| 12.5 | |  | Silty fine SAND (SM); light gray; medium dense; wet | EB03-SWI/12 | | | | 0.0 | |
| 15 | | | begins to get finer | | | 80 | | | |
| | |  | SILT and CLAY (MH); highly plastic; soft; wet; medium stiff | | | | | 0.0 | |
| | | | End of boring | | | | | 0.0 | |
| 17.5 | | | | | | | | | |

Appendix C

Field Sampling Data Sheets

EVREN Northwest GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAME: Kiddie Academy
 Event: GW Recover in Row

PROJECT NUMBER: 1581-21001-02
 Date: 03/15/22

Field Personnel: Dan Salko Monitoring Well ID: E301
 Weather Conditions: Partly Sunny Start Time: 9:30
 DTW (prior to purging): 10.1 5.52' after deepening

WELL PURGING INFORMATION

| Time | DTW During Purging (feet) | Pumping Rate (L/min) | Temperature (degree C) | Specific Conductivity (mS/cm), ±3% | Dissolved Oxygen (mg/L), ±10% | Water pH (S.U.), ±0.1% | ORP (mV), ±10 mV | Turbidity (NTU), ±10% | Total Quantity Purged (gallons/liters) |
|----------------|---------------------------|----------------------|------------------------|------------------------------------|-------------------------------|------------------------|------------------|-----------------------|--|
| 9:31 9:30 | | | | | | | | | 0.01 |
| | | | | | | | | | |
| 10:24 10:25 | | 125 | | | | | | | 0.01 |
| 10:28 10:33 | | " | | | | | | | 0.6 |
| 10:38 10:40 | | | | | | | | | 1.20 1.00 |

Total Purged ~2.00

Tubing: 1/4" LDPE
 Purge Pumping Rate (approx. L/m): 125 ml/min Well casing (in. diam): 1" PVC
 Decontamination method: _____ Approx. Pump/Intake Depth: ~13'

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes: Screen set from 6'-16'

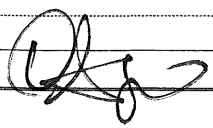
QA/QC Sample: Duplicate Lab QA/QC Equipment Blank None
 Sampling Method: Grundfos Pump Peristaltic Pump Bladder Pump Dual Valve

SAMPLE INFORMATION

| Analytical Parameters | Destination Laboratory | Preservative | Bottle Size | Number of bottles | Sample ID | Time Sampled |
|-----------------------|------------------------|--------------|----------------|-------------------|-------------------|--------------|
| <u>GT (VOCs) RBDM</u> | <u>F20</u> | <u>HCL</u> | <u>40ml</u> | <u>4</u> | <u>E301-GW-16</u> | <u>10:55</u> |
| <u>CATs</u> | <u>↓</u> | <u>none</u> | <u>1 liter</u> | <u>1</u> | | |
| <u>Dx</u> | | <u>none</u> | <u>500ml</u> | <u>1</u> | | |

Method of Transportation of samples: FedEx Courier
 All samples were immediately placed into a cooler and packed with ice or "blue ice" Yes No

Field Observations/Notes of sampling event: RBDM = BTEX (EDB, MTBE)

Signature of Field Personnel: 

PROJECT NAME:

PROJECT NUMBER:

Event: GW sampling (recon) ROW

Date: 03/15/22

Field Personnel: Dan Sayko

Monitoring Well ID: EB02

Weather Conditions: Partly

Start Time: 10:57

DTW (prior to purging): 9.85'

WELL PURGING INFORMATION

| Time | DTW During Purging (feet) | Pumping Rate (l/min) | Temperature (degree C) | Specific Conductivity (mS/cm), ±3% | Dissolved Oxygen (mg/L), ±10% | Water pH (S.U.), ±0.1% | ORP (mV), ±10 mV | Turbidity (NTU), ±10% | Total Quantity Purged (gallons/liters) |
|------------------|---------------------------|----------------------|------------------------|------------------------------------|-------------------------------|------------------------|------------------|-----------------------|--|
| 10:58 | 11 | 120 | | | | | | | 0.2 |
| 11:02 | | 11 | | | | | | | 0.50 |
| 11:05 | | " | | | | | | | 0.80 |
| 11:36 | | | | | | | | | |
| 11:37 | | | | | | | | | |
| 11:38 | | | | | | | | | |
| 11:42 | | | | | | | | | |
| | | | | | | | | | 1.0 |

Total Purged:

Tubing: 1/4" LDPE
 Purge Pumping Rate (approx. L/m): ~ 125 ml/min
 Decontamination method:

Well casing (in. diam): 1" PVC
 Approx. Pump/Intake Depth: ~ 15'

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

QA/QC Sample: Duplicate Lab QA/QC Equipment Blank None
 Sampling Method: Grundfos Pump Peristaltic Pump Bladder Pump Dual Valve

SAMPLE INFORMATION

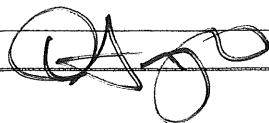
| Analytical Parameters | Destination Laboratory | Preservative | Bottle Size | Number of bottles | Sample ID | Time Sampled |
|--|------------------------|--|---|----------------------------------|-------------------|--------------|
| <u>CA (PBM uors)</u> <u>CPHs</u> <u>Dx</u> | <u>FP3</u> | <u>HCL</u> <u>none</u> <u>none</u> | <u>40ml</u> <u>1 liter</u> <u>200ml</u> | <u>4</u> <u>1</u> <u>1</u> | <u>EB02-GW-16</u> | <u>13:00</u> |

Method of Transportation of samples: FedEx Courier
 All samples were immediately placed into a cooler and packed with ice or "blue ice" Yes No

Field Observations/Notes of sampling event:

Screened from 6' - 16'

Signature of Field Personnel:



EVREN Northwest

GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAME:

Kiddie Academy

PROJECT NUMBER:

1501-21001-02

Event:

GW sampling (Recor Row)

Date:

03/15/22

Field Personnel:

Don Sajo

Monitoring Well ID:

EB03

Weather Conditions:

Partly Sunny

Start Time:

11:50

DTW (prior to purging):

6.98

WELL PURGING INFORMATION

| Time | DTW During Purging (feet) | Pumping Rate (L/min) | Temperature (degree C) | Specific Conductivity (mS/cm), ±3% | Dissolved Oxygen (mg/L), ±10% | Water pH (S.U.), ±0.1% | ORP (mV), ±10 mV | Turbidity (NTU), ±10% | Total Quantity Purged (gallons/liters) |
|-------|---------------------------|----------------------|------------------------|------------------------------------|-------------------------------|------------------------|------------------|-----------------------|--|
| 11:51 | | 150 | | | | | | | |
| 11:55 | | " | | | | | | | 0.60 |
| 11:59 | | " | | | | | | | 1.20 |
| 12:03 | | " | | | | | | | 1.80 |

Total Purged: 1.80

Tubing:

1/4" LDPE

Purge Pumping Rate (approx. L/m):

150 ml/min

Well casing (in. diam):

1" PVC

Decontamination method:

Approx. Pump/Intake Depth:

~13'

Well Conversion Factors: 2" = 0.17 gal / foot; 5/8" = 0.02 gal/foot

WELL CONDITION

Recommended Well Repairs/Additional Notes:

Screened from 6' - 16'

QA/QC Sample:

Duplicate

Lab QA/QC

Equipment Blank

None

Sampling Method:

Grundfos Pump

Peristaltic Pump

Bladder Pump

Dual Valve

SAMPLE INFORMATION

| Analytical Parameters | Destination Laboratory | Preservative | Bottle Size | Number of bottles | Sample ID | Time Sampled |
|-----------------------|------------------------|-----------------|-----------------------|-------------------|------------|--------------|
| CX, VOLs, CPARTS, DX | FB | HCl, none, none | 400ml, 1 liter, 500ml | 4, 1, 1 | EB03-GW-16 | 12:15 |

Method of Transportation of samples:

FedEx

Courier

All samples were immediately placed into a cooler and packed with ice or "blue ice"

Yes

No

Field Observations/Notes of sampling event:

Signature of Field Personnel:

Appendix D

Laboratory Analytical Report

Analytical Laboratory Data Validation Check Sheet

Project Name: Kiddie Academy Project Number: 1581-21001-02

Date of Review: 03/30/2022 Lab. Name: EAS Lab Batch ID #: 203273

Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| 2.) Were the requested methods used? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| 3.) Trip blank submitted? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| 4.) Field blank submitted? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |

Timing

- | | | |
|--|---|--|
| 5.) Samples extracted within holding times? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no <input checked="" type="checkbox"/> NA |
| 6.) Analysis performed within holding times? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no <input checked="" type="checkbox"/> NA |

Quality Assurance/Quality Control

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

- | | | | |
|---|---|-----------------------------|--|
| 13.) For inorganics and metals, is there one method blank for each analyte? | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input checked="" type="checkbox"/> NA |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | |

Accuracy

- | | | | |
|--|---|--|--|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| Do all surrogate spike recoveries meet accepted criteria? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no | |
| If not, are all discrepancies footnoted? See comment d | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input checked="" type="checkbox"/> NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no | <input type="checkbox"/> NA |
| If not, are all discrepancies footnoted? See comment vo | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |

Precision

- | | | | |
|---|---|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input checked="" type="checkbox"/> NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> NA |
| If not, are all discrepancies footnoted? | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input checked="" type="checkbox"/> NA |
| 21.) Do all RPD calculations for Field Duplicates meet accepted criteria? | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input checked="" type="checkbox"/> NA |

Comments:

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
 vo - The value reported fell outside the control limits established for this analyte.

Initial Review By: CR

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.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

March 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 March 15, 2022 from the 1581-21001-02, F&BI 203273 project. There are 36 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
ENW0330R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 15, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1581-21001-02, F&BI 203273 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Evren Northwest</u> |
|----------------------|------------------------|
| 203273 -01 | EB01/5-7 |
| 203273 -02 | EB01/9 |
| 203273 -03 | EB01-SWI/14 |
| 203273 -04 | EB02-SWI/13.5 |
| 203273 -05 | EB03-SWI/12 |
| 203273 -06 | EB01-GW-16 |
| 203273 -07 | EB02-GW-16 |
| 203273 -08 | EB03-GW-16 |

Sample EB02-SWI/13.5 was sent to Fremont Analytical for total organic carbon analysis. The report is enclosed.

The reporting limits for samples EB01/5-7 and EB01/9 were raised due to a high percent moisture present in the sample.

The silica gel NWTPH-Dx laboratory control sample and laboratory control sample duplicate relative percent difference exceeded the acceptance criteria. Nothing was detected in the sample, therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22
Date Received: 03/15/22
Project: 1581-21001-02, F&BI 203273
Date Extracted: 03/16/22
Date Analyzed: 03/17/22

**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> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150) |
|-----------------------------------|-----------------------|---|
| EB01/5-7 203273-01 1/4 | <20 | 89 |
| EB01/9 203273-02 | 190 | 85 |
| EB01-SWI/14 203273-03 | <5 | 78 |
| EB02-SWI/13.5 203273-04 | <5 | 90 |
| EB03-SWI/12 203273-05 | <5 | 89 |
| Method Blank 02-601 MB | <5 | 90 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22
Date Received: 03/15/22
Project: 1581-21001-02, F&BI 203273
Date Extracted: 03/17/22
Date Analyzed: 03/17/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

| <u>Sample ID</u> Laboratory ID | <u>Gasoline Range</u> | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134) |
|-----------------------------------|-----------------------|---|
| EB01-GW-16 203273-06 | <100 | 76 |
| EB02-GW-16 203273-07 | <100 | 70 |
| EB03-GW-16 203273-08 | <100 | 69 |
| Method Blank 02-604 MB | <100 | 72 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22
Date Received: 03/15/22
Project: 1581-21001-02, F&BI 203273
Date Extracted: 03/16/22
Date Analyzed: 03/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

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>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|--|---|---|
| EB01/5-7 203273-01 | 680 | <1,000 | 91 |
| EB01/9 203273-02 | 2,600 | <1,000 | 93 |
| EB01-SWI/14 203273-03 | <50 | <250 | 90 |
| EB02-SWI/13.5 203273-04 | <50 | <250 | 91 |
| EB03-SWI/12 203273-05 | <50 | <250 | 93 |
| Method Blank 02-667 MB2 | <50 | <250 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22
Date Received: 03/15/22
Project: 1581-21001-02, F&BI 203273
Date Extracted: 03/16/22
Date Analyzed: 03/18/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152) |
|-----------------------------------|--|---|---|
| EB02-GW-16 203273-07 1/1.5 | <75 | <380 | 101 |
| Method Blank 02-669 MB2 | <50 | <250 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22
Date Received: 03/15/22
Project: 1581-21001-02, F&BI 203273
Date Extracted: 03/16/22
Date Analyzed: 03/16/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-D_x**
Results Reported as ug/L (ppb)

| <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> (% Recovery) (Limit 41-152) |
|-----------------------------------|--|--|--|
| EB01-GW-16 203273-06 | 120 | <250 | 46 |
| EB02-GW-16 203273-07 1/1.5 | 78 x | <380 | 122 |
| EB03-GW-16 203273-08 | <50 | <250 | 85 |
| Method Blank 02-669 MB2 | <50 | <250 | 131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01/5-7 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 203273-01 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032131.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 109 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 104 | 84 | 116 |

| 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) | <0.005 |
| 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 Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01/9 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 203273-02 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032132.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 79 | 128 |
| Toluene-d8 | 96 | 84 | 121 |
| 4-Bromofluorobenzene | 99 | 84 | 116 |

| 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) | <0.005 |
| Ethylbenzene | <0.05 |
| m,p-Xylene | <0.1 |
| o-Xylene | <0.05 |
| Isopropylbenzene | 0.082 |
| n-Propylbenzene | <0.05 |
| 1,3,5-Trimethylbenzene | 0.14 |
| 1,2,4-Trimethylbenzene | <0.05 |
| Naphthalene | <0.05 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01-SWI/14 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 203273-03 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032133.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 107 | 84 | 116 |

| 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) | <0.005 |
| 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 Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB02-SWI/13.5 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 203273-04 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032134.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 107 | 79 | 128 |
| Toluene-d8 | 94 | 84 | 121 |
| 4-Bromofluorobenzene | 108 | 84 | 116 |

| 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) | <0.005 |
| 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 Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB03-SWI/12 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 203273-05 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032135.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 79 | 128 |
| Toluene-d8 | 98 | 84 | 121 |
| 4-Bromofluorobenzene | 103 | 84 | 116 |

| 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) | <0.005 |
| 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 Dual Acquisition

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Evren Northwest |
| Date Received: | Not Applicable | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/21/22 | Lab ID: | 02-0689 mb 1/0.25 |
| Date Analyzed: | 03/21/22 | Data File: | 032127.D |
| Matrix: | Soil | Instrument: | GCMS11 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | RF |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 95 | 79 | 128 |
| Toluene-d8 | 99 | 84 | 121 |
| 4-Bromofluorobenzene | 107 | 84 | 116 |

| 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) | <0.005 |
| 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 Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB01-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-06 |
| Date Analyzed: | 03/17/22 | Data File: | 031728.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | WE |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 104 | 85 | 117 |
| Toluene-d8 | 100 | 88 | 112 |
| 4-Bromofluorobenzene | 101 | 90 | 111 |

| Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|
| Methyl t-butyl ether (MTBE) | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| Benzene | <0.35 |
| Toluene | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Ethylbenzene | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Isopropylbenzene | <1 |
| n-Propylbenzene | <1 |
| 1,3,5-Trimethylbenzene | <1 |
| 1,2,4-Trimethylbenzene | <1 |
| Naphthalene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB02-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-07 |
| Date Analyzed: | 03/17/22 | Data File: | 031729.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | WE |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 85 | 117 |
| Toluene-d8 | 99 | 88 | 112 |
| 4-Bromofluorobenzene | 100 | 90 | 111 |

| Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|
| Methyl t-butyl ether (MTBE) | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| Benzene | <0.35 |
| Toluene | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Ethylbenzene | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Isopropylbenzene | <1 |
| n-Propylbenzene | <1 |
| 1,3,5-Trimethylbenzene | <1 |
| 1,2,4-Trimethylbenzene | <1 |
| Naphthalene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB03-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-08 |
| Date Analyzed: | 03/17/22 | Data File: | 031730.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | WE |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 97 | 85 | 117 |
| Toluene-d8 | 97 | 88 | 112 |
| 4-Bromofluorobenzene | 96 | 90 | 111 |

| Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|
| Methyl t-butyl ether (MTBE) | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| Benzene | <0.35 |
| Toluene | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Ethylbenzene | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Isopropylbenzene | <1 |
| n-Propylbenzene | <1 |
| 1,3,5-Trimethylbenzene | <1 |
| 1,2,4-Trimethylbenzene | <1 |
| Naphthalene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

| | | | |
|-------------------|----------------|-------------|----------------------------|
| Client Sample ID: | Method Blank | Client: | Evren Northwest |
| Date Received: | Not Applicable | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 02-655 mb |
| Date Analyzed: | 03/17/22 | Data File: | 031707.D |
| Matrix: | Water | Instrument: | GCMS13 |
| Units: | ug/L (ppb) | Operator: | WE |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|-----------------------|-------------|--------------|--------------|
| 1,2-Dichloroethane-d4 | 96 | 85 | 117 |
| Toluene-d8 | 97 | 88 | 112 |
| 4-Bromofluorobenzene | 103 | 90 | 111 |

| Compounds: | Concentration ug/L (ppb) |
|-----------------------------|-----------------------------|
| Methyl t-butyl ether (MTBE) | <1 |
| 1,2-Dichloroethane (EDC) | <0.2 |
| Benzene | <0.35 |
| Toluene | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Ethylbenzene | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Isopropylbenzene | <1 |
| n-Propylbenzene | <1 |
| 1,3,5-Trimethylbenzene | <1 |
| 1,2,4-Trimethylbenzene | <1 |
| Naphthalene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01/5-7 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-01 1/25 |
| Date Analyzed: | 03/17/22 | Data File: | 031712.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 63 d | 39 | 103 |
| Phenol-d6 | 70 d | 48 | 109 |
| Nitrobenzene-d5 | 74 d | 23 | 138 |
| 2-Fluorobiphenyl | 79 d | 50 | 150 |
| 2,4,6-Tribromophenol | 88 d | 40 | 127 |
| Terphenyl-d14 | 80 d | 50 | 150 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Benz(a)anthracene | <0.2 |
| Chrysene | <0.2 |
| Benzo(a)pyrene | <0.2 |
| Benzo(b)fluoranthene | <0.2 |
| Benzo(k)fluoranthene | <0.2 |
| Indeno(1,2,3-cd)pyrene | <0.2 |
| Dibenz(a,h)anthracene | <0.2 |

Note: Reporting limits were raised due to high moisture content in the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01/9 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-02 1/25 |
| Date Analyzed: | 03/17/22 | Data File: | 031713.D |
| Matrix: | Soil | Instrument: | GCMS12 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 75 d | 39 | 103 |
| Phenol-d6 | 84 d | 48 | 109 |
| Nitrobenzene-d5 | 84 d | 23 | 138 |
| 2-Fluorobiphenyl | 86 d | 50 | 150 |
| 2,4,6-Tribromophenol | 103 d | 40 | 127 |
| Terphenyl-d14 | 86 d | 50 | 150 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Benz(a)anthracene | <0.2 |
| Chrysene | <0.2 |
| Benzo(a)pyrene | <0.2 |
| Benzo(b)fluoranthene | <0.2 |
| Benzo(k)fluoranthene | <0.2 |
| Indeno(1,2,3-cd)pyrene | <0.2 |
| Dibenz(a,h)anthracene | <0.2 |

Note: Reporting limits were raised due to high moisture content in the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB01-SWI/14 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-03 1/5 |
| Date Analyzed: | 03/17/22 | Data File: | 031715.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 73 | 24 | 111 |
| Phenol-d6 | 81 | 37 | 116 |
| Nitrobenzene-d5 | 85 | 38 | 117 |
| 2-Fluorobiphenyl | 79 | 45 | 117 |
| 2,4,6-Tribromophenol | 75 | 11 | 158 |
| Terphenyl-d14 | 96 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| 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 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB02-SWI/13.5 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-04 1/5 |
| Date Analyzed: | 03/17/22 | Data File: | 031716.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 75 | 24 | 111 |
| Phenol-d6 | 83 | 37 | 116 |
| Nitrobenzene-d5 | 86 | 38 | 117 |
| 2-Fluorobiphenyl | 82 | 45 | 117 |
| 2,4,6-Tribromophenol | 73 | 11 | 158 |
| Terphenyl-d14 | 98 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|---------------------------|
| 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 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------------------|-------------|----------------------------|
| Client Sample ID: | EB03-SWI/12 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 203273-05 1/5 |
| Date Analyzed: | 03/17/22 | Data File: | 031717.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 78 | 24 | 111 |
| Phenol-d6 | 87 | 37 | 116 |
| Nitrobenzene-d5 | 81 | 38 | 117 |
| 2-Fluorobiphenyl | 86 | 45 | 117 |
| 2,4,6-Tribromophenol | 77 | 11 | 158 |
| Terphenyl-d14 | 100 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| 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 |

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: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/17/22 | Lab ID: | 02-676 mb2 1/5 |
| Date Analyzed: | 03/17/22 | Data File: | 031711.D |
| Matrix: | Soil | Instrument: | GCMS9 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 91 | 24 | 111 |
| Phenol-d6 | 97 | 37 | 116 |
| Nitrobenzene-d5 | 109 | 38 | 117 |
| 2-Fluorobiphenyl | 97 | 45 | 117 |
| 2,4,6-Tribromophenol | 83 | 11 | 158 |
| Terphenyl-d14 | 111 | 50 | 124 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|---------------------------|
| 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 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB01-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/16/22 | Lab ID: | 203273-06 |
| Date Analyzed: | 03/16/22 | Data File: | 031611.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 43 | 10 | 60 |
| Phenol-d6 | 19 | 10 | 49 |
| Nitrobenzene-d5 | 71 | 15 | 144 |
| 2-Fluorobiphenyl | 70 | 25 | 128 |
| 2,4,6-Tribromophenol | 73 | 10 | 142 |
| Terphenyl-d14 | 80 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|-----------------------------|
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB02-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/16/22 | Lab ID: | 203273-07 1/2 |
| Date Analyzed: | 03/16/22 | Data File: | 031612.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 35 | 10 | 60 |
| Phenol-d6 | 25 | 10 | 49 |
| Nitrobenzene-d5 | 75 | 15 | 144 |
| 2-Fluorobiphenyl | 75 | 25 | 128 |
| 2,4,6-Tribromophenol | 82 | 10 | 142 |
| Terphenyl-d14 | 86 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|--------------------------|
| Benz(a)anthracene | <0.04 |
| Chrysene | <0.04 |
| Benzo(a)pyrene | <0.04 |
| Benzo(b)fluoranthene | <0.04 |
| Benzo(k)fluoranthene | <0.04 |
| Indeno(1,2,3-cd)pyrene | <0.04 |
| Dibenz(a,h)anthracene | <0.04 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

| | | | |
|-------------------|------------|-------------|----------------------------|
| Client Sample ID: | EB03-GW-16 | Client: | Evren Northwest |
| Date Received: | 03/15/22 | Project: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/16/22 | Lab ID: | 203273-08 |
| Date Analyzed: | 03/16/22 | Data File: | 031613.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 19 | 10 | 60 |
| Phenol-d6 | 13 | 10 | 49 |
| Nitrobenzene-d5 | 54 | 15 | 144 |
| 2-Fluorobiphenyl | 44 | 25 | 128 |
| 2,4,6-Tribromophenol | 50 | 10 | 142 |
| Terphenyl-d14 | 49 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|--------------------------|
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |

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: | 1581-21001-02, F&BI 203273 |
| Date Extracted: | 03/16/22 | Lab ID: | 02-663 mb3 |
| Date Analyzed: | 03/16/22 | Data File: | 031610.D |
| Matrix: | Water | Instrument: | GCMS9 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| 2-Fluorophenol | 35 | 10 | 60 |
| Phenol-d6 | 14 | 10 | 49 |
| Nitrobenzene-d5 | 86 | 15 | 144 |
| 2-Fluorobiphenyl | 84 | 25 | 128 |
| 2,4,6-Tribromophenol | 77 | 10 | 142 |
| Terphenyl-d14 | 101 | 41 | 138 |

| Compounds: | Concentration ug/L (ppb) |
|------------------------|--------------------------|
| Benz(a)anthracene | <0.02 |
| Chrysene | <0.02 |
| Benzo(a)pyrene | <0.02 |
| Benzo(b)fluoranthene | <0.02 |
| Benzo(k)fluoranthene | <0.02 |
| Indeno(1,2,3-cd)pyrene | <0.02 |
| Dibenz(a,h)anthracene | <0.02 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: 203243-01 (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 | 85 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: 203290-02 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 20) |
|----------|--------------------|------------------|---------------------|-------------------|
| Gasoline | ug/L (ppb) | 160 | 150 | 6 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|--------------------|----------------|----------------------------|------------------------|
| Gasoline | ug/L (ppb) | 1,000 | 88 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: 203266-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 90 | 90 | 64-133 | 0 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 90 | 58-147 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 72 | 92 | 63-142 | 24 vo |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Diesel Extended | ug/L (ppb) | 2,500 | 89 | 89 | 63-142 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: 203360-01 (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 | 94 | 95 | 21-145 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 1 | <0.05 | 86 | 87 | 12-160 | 1 |
| Benzene | mg/kg (ppm) | 1 | <0.03 | 86 | 85 | 29-129 | 1 |
| Toluene | mg/kg (ppm) | 1 | <0.05 | 91 | 93 | 35-130 | 2 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 1 | <0.05 | 97 | 98 | 28-142 | 1 |
| Ethylbenzene | mg/kg (ppm) | 1 | <0.05 | 94 | 94 | 32-137 | 0 |
| m,p-Xylene | mg/kg (ppm) | 2 | <0.1 | 94 | 95 | 34-136 | 1 |
| o-Xylene | mg/kg (ppm) | 1 | <0.05 | 96 | 97 | 33-134 | 1 |
| Isopropylbenzene | mg/kg (ppm) | 1 | <0.05 | 95 | 96 | 31-142 | 1 |
| n-Propylbenzene | mg/kg (ppm) | 1 | <0.05 | 98 | 100 | 23-146 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 1 | <0.05 | 98 | 101 | 18-149 | 3 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 1 | <0.05 | 97 | 99 | 10-182 | 2 |
| Naphthalene | mg/kg (ppm) | 1 | <0.05 | 103 | 104 | 14-157 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|----------------------|---------------------|
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 1 | 96 | 60-123 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 1 | 90 | 56-135 |
| Benzene | mg/kg (ppm) | 1 | 90 | 71-118 |
| Toluene | mg/kg (ppm) | 1 | 100 | 66-126 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 1 | 105 | 74-132 |
| Ethylbenzene | mg/kg (ppm) | 1 | 100 | 64-123 |
| m,p-Xylene | mg/kg (ppm) | 2 | 101 | 78-122 |
| o-Xylene | mg/kg (ppm) | 1 | 101 | 77-124 |
| Isopropylbenzene | mg/kg (ppm) | 1 | 102 | 76-127 |
| n-Propylbenzene | mg/kg (ppm) | 1 | 106 | 74-124 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 1 | 105 | 76-126 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 1 | 102 | 76-125 |
| Naphthalene | mg/kg (ppm) | 1 | 101 | 63-140 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: 203164-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent | Acceptance |
|-----------------------------|--------------------|----------------|------------------|----------------|------------|
| | | | | Recovery MS | Criteria |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | <1 | 101 | 50-150 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | <0.2 | 91 | 50-150 |
| Benzene | ug/L (ppb) | 10 | <0.35 | 93 | 50-150 |
| Toluene | ug/L (ppb) | 10 | <1 | 95 | 50-150 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | <1 | 104 | 50-150 |
| Ethylbenzene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| m,p-Xylene | ug/L (ppb) | 20 | <2 | 98 | 50-150 |
| o-Xylene | ug/L (ppb) | 10 | <1 | 98 | 50-150 |
| Isopropylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| n-Propylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | <1 | 99 | 50-150 |
| Naphthalene | ug/L (ppb) | 10 | <1 | 101 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Percent | Acceptance Criteria | RPD (Limit 20) |
|-----------------------------|--------------------|----------------|-----------------|------------------|------------------------|-------------------|
| | | | Recovery LCS | Recovery LCSD | | |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 10 | 91 | 92 | 70-130 | 1 |
| Benzene | ug/L (ppb) | 10 | 95 | 94 | 70-130 | 1 |
| Toluene | ug/L (ppb) | 10 | 98 | 98 | 70-130 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 10 | 107 | 104 | 70-130 | 3 |
| Ethylbenzene | ug/L (ppb) | 10 | 99 | 99 | 70-130 | 0 |
| m,p-Xylene | ug/L (ppb) | 20 | 99 | 99 | 70-130 | 0 |
| o-Xylene | ug/L (ppb) | 10 | 99 | 98 | 70-130 | 1 |
| Isopropylbenzene | ug/L (ppb) | 10 | 102 | 100 | 70-130 | 2 |
| n-Propylbenzene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 10 | 99 | 97 | 52-150 | 2 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 10 | 100 | 101 | 70-130 | 1 |
| Naphthalene | ug/L (ppb) | 10 | 101 | 100 | 70-130 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Benz(a)anthracene | mg/kg (ppm) | 0.83 | 88 | 92 | 64-116 | 4 |
| Chrysene | mg/kg (ppm) | 0.83 | 90 | 92 | 66-119 | 2 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.83 | 93 | 96 | 62-116 | 3 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.83 | 94 | 100 | 61-118 | 6 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.83 | 91 | 93 | 65-119 | 2 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.83 | 97 | 97 | 64-130 | 0 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.83 | 99 | 95 | 67-131 | 4 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/22

Date Received: 03/15/22

Project: 1581-21001-02, F&BI 203273

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

Laboratory Code: Laboratory Control Sample 1/0.5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Benz(a)anthracene | ug/L (ppb) | 5 | 95 | 101 | 70-130 | 6 |
| Chrysene | ug/L (ppb) | 5 | 96 | 101 | 70-130 | 5 |
| Benzo(a)pyrene | ug/L (ppb) | 5 | 101 | 106 | 70-130 | 5 |
| Benzo(b)fluoranthene | ug/L (ppb) | 5 | 103 | 107 | 62-130 | 4 |
| Benzo(k)fluoranthene | ug/L (ppb) | 5 | 99 | 108 | 70-130 | 9 |
| Indeno(1,2,3-cd)pyrene | ug/L (ppb) | 5 | 101 | 100 | 70-130 | 1 |
| Dibenz(a,h)anthracene | ug/L (ppb) | 5 | 105 | 98 | 70-130 | 7 |

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.

203273

SAMPLE CHAIN OF CUSTODY

03-15-22

CI2
E03
WU1
AS-At 091

Send Report To WU1 (P)
 Company FURN-171
 Address 40 SE 24th Ave
 City, State, ZIP PORTLAND, OR 97214
 Phone # 503-452-5561 Fax # 503-452-5561

SAMPLERS (signature) _____
 PROJECT NUMBER 1507-2004-02
1581-21001-02 per ER
 REMARKS ★ PBDM VOCs
3/14/22 ME
 PO # _____

Page # _____ of _____
 TURNOVER/DELIVERY TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Well cell: with instructions

| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes | | |
|---------------|--------|---------|-------|-------------|-----------------|--------------------|--------------|--------------|--------------|---------------|-----|-------|----------------|------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTX by 8021B | VOCs by 8260 | SVOCs by 8270 | HPs | | BTEX, EPR, MDE | CPAHs |
| EB01/5-7 | 01A-E | 3/15/22 | 9:00 | Soil | 5 | / | / | / | / | / | / | / | / | |
| EB01/9 | 02 | | 9:20 | | 5 | / | / | / | / | / | / | / | / | (C) per LC |
| EB01-SM1/19 | 03 | | 10:12 | | 5 | / | / | / | / | / | / | / | / | 3/17/22 ME |
| EB02-SM1/13.5 | 04 | | 9:58 | | 5 | / | / | / | / | / | / | / | / | |
| EB03-SM1/12 | 05 | | 11:21 | | 5 | / | / | / | / | / | / | / | / | |
| EB01-AFM/16 | 06 A-F | | 10:55 | Water | 6 | / | / | / | / | / | / | / | / | |
| EB02-AFM/16 | 07 | | 13:08 | | 6 | / | / | / | / | / | / | / | / | |
| EB03-AFM/16 | 08 | | 12:15 | | 6 | / | / | / | / | / | / | / | / | |

Frederman & Braga, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2089
 Ph. (206) 285-8282
 Fax (206) 283-5044

Requisitioned by: _____
 Received by: _____
 Requisitioned by: mlm/klms
 Received by: _____

SIGNATURE _____
 PRINT NAME _____
 COMPANY _____
 DATE _____ TIME _____

Samples received at 4 °C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 203273
Work Order Number: 2203431

March 24, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 3/17/2022 for the analyses presented in the following report.

Total Organic Carbon by EPA 9060

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 03/24/2022

CLIENT: Friedman & Bruya
Project: 203273
Work Order: 2203431

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2203431-001 | EB02/SWI/13.5 | 03/15/2022 9:58 AM | 03/17/2022 5:39 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 203273

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Friedman & Bruya

Collection Date: 3/15/2022 9:58:00 AM

Project: 203273

Lab ID: 2203431-001

Matrix: Soil

Client Sample ID: EB02/SWI/13.5

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Total Organic Carbon by EPA 9060

Batch ID: 35857

Analyst: SLL

| | | | | | | |
|----------------------|-------|-------|--|-------|---|-----------------------|
| Total Organic Carbon | 0.391 | 0.150 | | %-dry | 1 | 3/24/2022 11:48:00 AM |
|----------------------|-------|-------|--|-------|---|-----------------------|

Work Order: 2203431
CLIENT: Friedman & Bruya
Project: 203273

QC SUMMARY REPORT
Total Organic Carbon by EPA 9060

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-35857 | SampType: MBLK | Units: %-dry | Prep Date: 3/24/2022 | RunNo: 74296 | | | | | | | |
| Client ID: MBLKS | Batch ID: 35857 | Analysis Date: 3/24/2022 | SeqNo: 1523884 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon ND 0.150

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-35857 | SampType: LCS | Units: %-dry | Prep Date: 3/24/2022 | RunNo: 74296 | | | | | | | |
| Client ID: LCSS | Batch ID: 35857 | Analysis Date: 3/24/2022 | SeqNo: 1523885 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 1.06 0.150 1.000 0 106 80 120

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2203431-001ADUP | SampType: DUP | Units: %-dry | Prep Date: 3/24/2022 | RunNo: 74296 | | | | | | | |
| Client ID: EB02/SWI/13.5 | Batch ID: 35857 | Analysis Date: 3/24/2022 | SeqNo: 1523887 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 0.381 0.150 0.3910 2.59 20

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2203431-001AMS | SampType: MS | Units: %-dry | Prep Date: 3/24/2022 | RunNo: 74296 | | | | | | | |
| Client ID: EB02/SWI/13.5 | Batch ID: 35857 | Analysis Date: 3/24/2022 | SeqNo: 1523888 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 1.44 0.150 1.000 0.3910 105 75 125

| | | | | | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: 2203431-001AMSD | SampType: MSD | Units: %-dry | Prep Date: 3/24/2022 | RunNo: 74296 | | | | | | | |
| Client ID: EB02/SWI/13.5 | Batch ID: 35857 | Analysis Date: 3/24/2022 | SeqNo: 1523889 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Total Organic Carbon 1.64 0.150 1.000 0.3910 125 75 125 1.441 13.1 20

Client Name: **FB**
 Logged by: **Matt Langston**

Work Order Number: **2203431**
 Date Received: **3/17/2022 5:39:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.9 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

22032731

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

Page # 1 of 1

| | |
|------------------|----------------|
| SUBCONTRACTER | <u>Fremont</u> |
| PROJECT NAME/NO. | <u>203273</u> |
| PO # | <u>C-108</u> |
| REMARKS | |

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 | TOC | |
| <u>EB02-SUI/13.5</u> | | <u>3/15/12</u> | <u>0958</u> | <u>water soil</u> | <u>1</u> | | | | <u>X</u> | |
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Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

| SIGNATURE | PRINT NAME |
|-----------|-----------------------|
| | <u>Michael Erdahl</u> |

| | | |
|-----------------------------------|----------------------|--------------------|
| Received by: <u>Alex Tejo</u> | DATE: <u>3/17/12</u> | TIME: <u>17:39</u> |
| Relinquished by: <u>Alex Tejo</u> | DATE: <u>3/17/12</u> | TIME: <u>0343</u> |
| Received by: _____ | DATE: _____ | TIME: _____ |
| Relinquished by: _____ | DATE: _____ | TIME: _____ |