GROUND WATER MONITORING: FIRST QUARTER 2022

FUTURE KIDDIE ACADEMY PROPERTY

8701 Greenwood Avenue North
Seattle, WA 98103

Prepared for:

KIDDIE ACADEMY
EDUCATIONAL CHILD CARE

Attn: Maninder Singh
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Issued on:

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This

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and its assignees

Issued February 28, 2022 *by:*

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Table of Contents

List of Tables, Figures and Appendices

Tables

IN TEXT *(labeled by Section – Number)*

AFTER TEXT *(following 'Tables' tab)*

Figures

Appendices

List of Acronyms and Abbreviations

bgs	below ground surface
Client	Kiddie Academy
COPCs	constituents of potential concern
CSM	conceptual site model
CUL	cleanup level
cVOC	chlorinated volatile organic constituent
DO	dissolved oxygen
DRO	diesel-range organics
Ecology	Washington Department of Ecology
ENW	EVREN Northwest, Inc.
EPA	US Environmental Protection Agency
F&BI	Friedman and Bruya, Inc.
GRO	gasoline-related organics
LNAPL	light non-aqueous phase liquid
mg/L	milligrams per liter
mV	millivolts
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter
MTCA	Model Toxics Control Act
ORP	oxidation-reduction potential
PAH	polynuclear aromatic hydrocarbon
PE	polyethylene
PQL	practical quantification limit
RRO	residual(oil)-range organics
SOW	scope of work
TOC	top of casing
TPH	total petroleum hydrocarbons
VOCs	volatile organic constituents
WAC	Washington Administrative Code

1.0 Introduction

At the request of Kiddie Academy (Client), EVREN Northwest, Inc. (ENW) conducted ground-water monitoring at the commercial property located at 8701 Greenwood Avenue North in Seattle, Washington (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 Plan[1] to fulfill Washington Department of Ecology's (Ecology's) change of use requirements[2] pursuant to Client's plans to redevelop the subject property as a child daycare facility.

This report summarizes previous environmental work and describes the ground water monitoring 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 work plan.[1] Based on this history, ENW prepared the *Data Gap Investigation Work Plan* (Work Plan),[1] 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*[1] 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).

2.2 Scope of Work

This work was performed in accordance with the SOW provided in ENW's proposal dated December 7, 2021.

The SOW included the following tasks:

- Prepared an internal Sample/Analysis Plan for sample collection.
- Gauged water levels in 12 monitoring wells (Well-2 through Well-13) and used low-flow purge and sampling methodology to sample each well.
- Submitted samples to an independent laboratory for analysis.
- Evaluated analytical data against MTCA Method A and B cleanup levels.
- Completed this report describing the above activities and findings.

Appendix A presents photos of work conducted on site during this SOW.

[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.

3.0 Site Setting

A conceptual site model (CSM) is presented in ENW's *Work Plan*.[1] 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 Seattle North, Washington 7.5-minute quadrangle (Figure 1), the subject property lies at an approximate elevation of 260 feet above mean sea level (amsl). 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 landsides 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 and of mappable extent. These 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 bgs that appears to act as a confining layer separating lower saturated soils from the overlying vadose zone. Between 14 and 17 feet below ground surface (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.

[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.

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/sandy 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 7 feet bgs.

Constituents of Potential Concern (COPCs). According to ENW's Work Plan,[1]

- On-site dry-cleaning-related COPCs include gasoline-range organics (GRO), diesel-range organics (DRO), and chlorinated volatile organic constituents (cVOCs).
- On-site gasoline service station-related COPCs and off-site COPCs from the north-adjoining property include GRO, DRO, residual(oil)-range organics (RRO), volatile organic constituents (VOCs), and polynuclear aromatic hydrocarbons (PAHs).

Nature and Extent and Associated Data Gaps. Data gaps[1] being addressed in this SOW are associated with the nature and extent of petroleum impacts in ground water, ground-water gradient and flow direction, and seasonal effects on ground water constituent concentrations as follows:

- **Ground Water**. Shallow reconnaissance ground water samples reported GRO, benzene and vinyl chloride at concentrations above MTCA Method A cleanup level (CUL) in Partner's boring B2 (proposed outdoor play area). Benzene, DRO and RRO were also present in temporary wells in Partner borings B4 and B5, located at the central portion of the north property boundary and along the west side of the on-site commercial building (Figure 3).
    - Four quarters of ground water monitoring of 12 on-site monitoring wells (Well-2 through Well-13) are proposed to establish a hydraulic gradient and ground water flow direction, and evaluate seasonal effects on dissolved constituent concentrations at the north-adjoining property boundary (Well-6, Well-8, and Well-12), within and downgradient of the proposed play area (Well-4, Well-5, an d Well-13), the former dry cleaner area (Well-10 and Well-11), and west and southwest of the on-site commercial building (Well-2 and Well-3).

4.0 Methods

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

4.1 Work Objectives

The objective of this work was to quantitatively determine whether hazardous substances may be present in the subsurface beneath the 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, Field Data Sampling Sheets are included in Appendix B, and laboratory analytical reports are included in Appendix C. Findings are presented in Section 5.

4.2 Preparation Activities

ENW performed or coordinated the following activities prior to conducting site characterization activities:

Plan Preparation. An in-house Sampling and Analysis Plan was prepared for the project.

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.

4.1 Ground Water Sample Collection

Immediately following purging, ground water samples were collected using clean, dedicated PE tubing connected to a peristaltic pump set at its lowest setting (approximately 0.1 to 0.2 liters per minute). Samples were transferred slowly into laboratory-supplied containers minimizing turbulence. Samples for VOC analysis were confirmed to contain no air bubbles within the container before sealing. Each sample container was labeled with the sample identification, date, time, and sampler.

Samples were immediately placed in cooled storage pending delivery to the laboratory under chain-of-custody protocols. All analyses were performed by Friedman & Bruya, Inc. (F&BI), of Seattle, Washington, using the US Environmental Protection Agency (EPA) Methods specified below. The laboratory report and chain-of-custody documents are presented in Appendix C.

4.2 Waste Management and Disposal

Purge and decontaminate water generated during drilling activities were placed into a 55-gallon drum, labeled, and left on-site in a secure location pending receipt of sample laboratory results. Sampling gloves, rags, and tubing, which were disposed of as solid waste.

4.3 Analytical Methods

Samples were analyzed according to the analytical methods presented in Table 4-1. Samples were analyzed by F&BI of Seattle, Washington. The laboratory analytical reports are included in Appendix C.

Table 4-1. Analytical Methods

Analytical Method	Constituents	Ground Water
NWTPH-Gx	Total Petroleum Hydrocarbons (TPH)–gasoline-range quantification (GRO)	All ground water monitoring wells
NWTPH-Dx	Total Petroleum Hydrocarbons (TPH)–Diesel-range quantification (DRO) and Residual oil-range quantification (RRO)	All ground water monitoring wells
EPA 8260B EPA 5035 (soil)	Petroleum-related Volatile Organic Compounds (benzene, ethylbenzene, EDB, MtBE, toluene, total xylenes)	All ground water monitoring wells
EPA 8260B EPA 5035 (soil)	Chlorinated Volatile Organic Compounds	Select ground water monitoring wells (Well-03, -04 and -10)
EPA 8270D SIM	Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)	All ground water monitoring wells

4.4 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 quantification 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.

5.0 Ground Water Monitoring

5.1.1 Water Level Measurements

On January 26, 2022:

- All well monuments were opened and well casing expanding plugs removed to allow water levels to equilibrate to ambient barometric pressure.
- Following equilibration, static water levels were measured in each well (prior to sample collection).
    - Depth to water in monitoring wells WELL-1 through WELL-13 ranged from 0.00 feet (WELL-4, -7, and -13) to 2.78 feet (WELL-2) below top of casing (TOC).
- Inferred ground water elevation contours (presented on Figure 3) suggest a south=southwesterly ground water flow direction across the site, with flow in the northern portion of the site exhibiting a more west-southwesterly flow direction and the southern portion of the site exhibiting a more south-southwesterly flow direction. The hydraulic gradient across the northern part of the site was estimated at 0.044 vertical feet per lineal foot (ft/ft) and in the southern part of the site was estimate at 0.52 ft/ft, suggesting a fairly consistent flow gradient across the site.

Water level data was recorded onto Ground Water Sampling Field forms included in Appendix B. Table 1 (behind "Tables" tab after text) presents a summary of monitoring well TOC elevations,[4] depths to ground water, the calculated water level elevations, and depths to light non-aqueous phase liquid (LNAPL) (MW03) for previous monitoring events.

5.2 Monitoring Well Sampling

To produce representative samples, the wells were purged using a low-flow peristaltic pump and dedicated polyethylene (PE) tubing, recording various water quality parameters [pH, temperature, oxidation-reduction potential (ORP), dissolved oxygen (DO), turbidity, and conductivity] until stabilized. The results were recorded onto Ground Water Sampling Field Forms which are included in Appendix A.

5.2.1 Water Quality Parameters

Table 2 (behind "Tables" tab after text) presents a summary of water quality parameters collected during purging during the fourth quarter 2021. In general:

- Temperature ranged from 8.99 (WELL-2) to 12.50°C (WELL-5).

[4] The tops of casing of all wells have been surveyed to within 0.01 foot relative to mean sea level established by the City of Seattle benchmark #SNV-7595.

- Electrical conductivity is a measure of groundwater's ability to carry an electrical current. Greater conductivity suggests a greater concentration of ions and charged molecules in ground water, including chloride and reduced metals. Conductivity ranged from 277 (WELL-3) to 317 (WELL-2) microsiemens per centimeter (µS/cm).
- DO ranged from 0.44 milligrams per liter (mg/L) I WELL-10 to 1.38 mg/L in WELL-10.
    - Typically, concentrations of DO greater than 1 mg/L are suggestive of aerobic conditions. Monitoring wells WELL-2, -3, -4, -5, and -9 are currently aerobic based on DO concentrations, all located in the central/south portion of the subject site.
- pH measurements ranged between 6.81 (WELL-2) and 7.85 (WELL-3), which is at the middle of the range of pH of natural waters (6 to 9) in Washington.
- ORP ranged from -643 (WELL-4) to 90 (WELL-8) millivolts (mV).
    - Positive ORP readings generally suggest oxidizing conditions, which is conducive to degradation of petroleum hydrocarbons. ORP is currently negative in all wells except WELL-6 and -8 and -12, all located along the northern boundary of the subject property. ORP is difficult to measure in the field and additional data will be needed to determine trends in ORP at each location.

5.2.2 LNAPL Monitoring

Prior to sampling, each well was checked for the presence of LNAPL using an interface probe. During the January 26, 2022 site-wide monitoring, measurable LNAPL was not detected in any of the wells.

5.3 Laboratory Analytical Results

Table 3 (behind "Tables" tab after text) presents cumulative analytical results for ground water samples collected from WELL-2 through WELL-13, and screens laboratory results against generic MTCAL CULs.

Summary of first quarter 2022 analytical results:

- **Total Petroleum Hydrocarbons (as GRO, DRO and RRO).** DRO and/or RRO were previously detected by others in monitoring wells WELL-2, -3, -5, -7, -8, -9, -10 and -11, of which only the detection of RRO in monitoring well WELL-3 exceeded its respective MTCA Method A CUL. However, during this current monitoring event DRO and/or RRO were only detected in monitoring wells WELL-5, and -11, both in the north-central portion of the subject site and at concentrations below MTCA Method A CULs. Additional data will be needed to determine if the previous exceedance is due to seasonal variability or is a possible outlier.
- **VOCs.** No VOCs have been detected in any of the monitoring wells at concentrations exceeding MCTA Method A or B CULs.
- **PAHs.** Only one PAH constituent (1-methylnaphthalene) was detected at a concentration exceeding its MTCA Method B CUL. The detection was in monitoring well WELL-11 and is located in the north-central portion of the site. The concentration detected (2.8 µg/L) only slightly exceeded its CUL (1.5 µg/L) and was reported by the laboratory as an estimated concentration. Additional data will be needed to confirm whether 1-methylnaphthalene is present at this location at concentrations above its MTCA Method B CUL.

5.4 Quality Control / Quality Assurance

The laboratory results of quality control samples are presented on Table 3 and summarized below.

- **Trip Bank.** All GRO-related VOCs were "non-detect," suggesting the samples were not affected by VOCs during storage on the site and during transport to the laboratory.
- **Blind Sample Duplicate.** Laboratory analysis of a blind sample duplicate collected from monitoring well WELL-10 (sample "MWFD") showed similar results, as there were no analytical detections in both samples. Results of the quality control samples for all constituents suggest that the accuracy and precision of both field and laboratory testing methods are within the data quality objectives.

6.0 Discussion of Findings

Ground Water Plume Delineation. Based on currently available data, only two monitoring well locations (WELL-3 and WELL-11) are associated with constituent detections exceeding CULs. Both wells are located in the central portion of the site and are delineated by both up- and down-gradient monitoring wells. Additionally, both detections are in question because one was estimate at just above the CUL by the laboratory (1-methylnaphthalene in WELL-11) and one was not reproduced during subsequent testing (RRO in WELL-3), suggesting some possible variability at this location. Addition data will be needed to confirm these detections and determine any seasonal variability.

7.0 Proposed Monitoring Activities

The following activities are proposed for the next quarter:

- Continue quarterly monitoring of all onsite monitoring wells for at least three more quarters to evaluate and monitor possible concentration trends.

8.0 Limitations

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

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

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

- Unpredictable events that may occur after ENW's site work, such as illegal dumping or accidental spillage.

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

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

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

Tables

Table 1. Summary of Ground Water Elevations

Monitoring Well Designation	Date	Top of Casing Elevation (feet)	Depth to Static Water Level (feet)	GW Elevation (feet)
WELL-2	1/26/2022	255.26	2.78	252.48
		Minumum	2.78	252.48
		Maximum	2.78	255.26
WELL-3	1/26/2022	259.53	1.54	257.99
		Minumum	1.54	257.99
		Maximum	1.54	259.53
WELL-4	1/26/2022	257.52	0.00	257.52
		Minumum	0.00	257.52
		Maximum	0.00	257.52
WELL-5	1/26/2022	258.22	0.02	258.20
		Minumum	0.02	255.26
		Maximum	0.02	258.20
WELL-6	1/26/2022	259.31	1.05	258.26
		Minumum	1.05	258.26
		Maximum	1.05	259.31
WELL-7	1/26/2022	260.39	0.00	260.39
		Minumum	0.00	260.39
		Maximum	0.00	260.39
WELL-8	1/26/2022	263.42	2.31	261.11
		Minumum	2.31	261.11
		Maximum	2.31	263.42
MW-8	1/26/2022	255.26		255.26
		Minumum	0.00	255.26
		Maximum	0.00	255.26
WELL-9	1/26/2022	262.74	1.48	261.26
		Minumum	1.48	261.26
		Maximum	1.48	262.74
WELL-10	1/26/2022	261.52	0.10	261.42
		Minumum	0.10	261.42
		Maximum	0.10	261.52
WELL-11	1/26/2022	261.05	0.05	261.00
		Minumum	0.05	261.00
		Maximum	0.05	261.05
WELL-12	1/26/2022	261.11	0.95	260.16
		Minumum	0.95	260.16
		Maximum	0.95	261.11
WELL-13	1/26/2022	258.39	0.00	258.39
		Minumum	0.00	258.39
		Maximum	0.00	258.39

Table 2. Summary of Water Quality Parameters

Well ID	Date	Temp (°C)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
WELL-2	1/26/2022	8.99	317	1.15	6.81	-22	102
	Minumum	8.99	317	1.15	6.81	-22	102
	Maximum	8.99	317	1.15	6.81	-22	102
WELL-3	1/26/2022	10	277	1.34	7.85	-339	139
	Minumum	10	277	1.34	7.85	-339	139
	Maximum	10	277	1.34	7.85	-339	139
WELL-4	1/26/2022	11.68	278	1.22	7.78	-643	139
	Minumum	11.68	278	1.22	7.78	-643	139
	Maximum	11.68	278	1.22	7.78	-643	139
WELL-5	1/26/2022	12.50	278	1.24	7.65	-379	139
	Minumum	12.50	278	1.24	7.65	-379	139
	Maximum	12.50	278	1.24	7.65	-379	139
WELL-6	1/26/2022	9.19	282	0.88	7.22	72	23.4
	Minumum	9.19	282	0.88	7.22	72	23.4
	Maximum	9.19	282	0.88	7.22	72	23.4
WELL-7	1/26/2022	11.69	286	1.38	7.61	-348	143
	Minumum	11.69	286	1.38	7.61	-348	143
	Maximum	11.69	286	1.38	7.61	-348	143
WELL-8	1/26/2022	10.43	279	0.59	7.23	90	15.9
	Minumum	10.43	279	0.59	7.23	90	15.9
	Maximum	10.43	279	0.59	7.23	90	15.9
WELL-9	1/26/2022	11.00	281	1.33	7.13	-204	140
	Minumum	11.00	281	1.33	7.13	-204	140
	Maximum	11.00	281	1.33	7.13	-204	140
WELL-10	1/26/2022	9.36	282	0.44	7.09	-124	18.1
	Minumum	9.36	282	0.44	7.09	-124	18.1
	Maximum	9.36	282	0.44	7.09	-124	18.1
WELL-11	1/26/2022	9.21	287	0.76	7.05	-142	3.6
	Minumum	9.21	287	0.76	7.05	-142	3.6
	Maximum	9.21	287	0.76	7.05	-142	3.6
WELL-12	1/26/2022	9.61	284	0.80	7.21	20	14.5
	Minumum	9.61	284	0.80	7.21	20	14.5
	Maximum	9.61	284	0.80	7.21	20	14.5
WELL-13	1/26/2022	11.13	277	0.60	7.19	-61	19.6
	Minumum	11.13	277	0.60	7.19	-61	19.6
	Maximum	11.13	277	0.60	7.19	-61	19.6
Range of Monitored Geochemistry Parameters within Monitored Area							
	Minumum	8.99	277	0.44	6.81	-643	3.6
	Maximum	12.50	317	1.38	7.85	90	143

°C = degrees Celsius

µS/cm = microsiemens per centimeter

mV = millivolt

NTU = Nephelometric Turbidity Unit

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-2	Well-2	Well-3	Well-3	Well-4	Well-4	Well-5	Well-5	Well-6	Well-6
Sample ID		Well #2	WELL-2-220126	Well #3	WELL-3-220126	Well #4	WELL-4-220126	Well #5	WELL-5-220126	Well #6	WELL-6-220126
Date Sampled		5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022
Sampler		ES	ENW	ES	ENW	ES	ENW	ES	ENW	ES	ENW
Location		Southwest Corner of Site	Southwest Corner of Site	West of Building, Next to Alley	West of Building, Next to Alley	South of Proposed Play Area	South of Proposed Play Area	Proposed Play Area	Proposed Play Area	North Parking Area - Northwest Corner	North Parking Area - Northwest Corner
Constituent of Interest	Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Volatile Organic Constituents (VOCs)											
Benzene	c, v	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)
Dichloroethylene;1,1-	nc, v		<1 (ND)		<1 (ND)		<1 (ND)		<1 (ND)		<1 (ND)
Dichloroethylene;1,2-,cis	nc, v	---	---	---	<1 (ND)	---	<1 (ND)	---	---	---	---
Dichloroethylene;1,2-,trans	nc, v	---	---	---	<1 (ND)	---	<1 (ND)	---	---	---	---
Methylene Chloride	c, v	---	---	---	<5 (ND)	---	<5 (ND)	---	---	---	---
Ethylene dibromide (EDB)	c, v	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)
Dichloroethane;1,2- (EDC)	c, v	---	<0.2 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	---	<0.2 (ND)
Ethylbenzene	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Methyl tert-butyl ether (MTBE)	c, v	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)
Naphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)
Tetrachloroethylene (PCE)	c, v	---	---	---	<1 (ND)	---	<1 (ND)	---	---	---	---
Toluene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Trichloroethane;1,1,1-	nc, v	---	---	---	<1 (ND)	---	<1 (ND)	---	---	---	---
Trichloroethylene (TCE)	c, v	---	---	---	<0.5 (ND)	---	<0.5 (ND)	---	---	---	---
Vinyl chloride	c, v	---	---	---	<0.02 (ND)	---	<0.02 (ND)	---	---	---	---
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)											
Acenaphthene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	1.5	---	4.1	---	<0.04 (ND)
Anthracene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benz[a]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Chrysene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Fluoranthene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	0.050	---	<0.04 (ND)	---	<0.04 (ND)
Fluorene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	0.29	---	1.3	---	<0.04 (ND)
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Naphthalene	c, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)
Pyrene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-2	Well-2	Well-3	Well-3	Well-4	Well-4	Well-5	Well-5	Well-6	Well-6
Sample ID		Well #2	WELL-2-220126	Well #3	WELL-3-220126	Well #4	WELL-4-220126	Well #5	WELL-5-220126	Well #6	WELL-6-220126
Date Sampled		5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022
Sampler		ES	ENW	ES	ENW	ES	ENW	ES	ENW	ES	ENW
Location		Southwest Corner of Site	Southwest Corner of Site	West of Building, Next to Alley	West of Building, Next to Alley	South of Proposed Play Area	South of Proposed Play Area	Proposed Play Area	Proposed Play Area	North Parking Area - Northwest Corner	North Parking Area - Northwest Corner
Total Petroleum Hydrocarbons											
GRO	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)
DRO	nc, nv	80 x	<50 (ND)	300 x	<50 (ND)	<50 (ND)	<50 (ND)	55 x	64	<50 (ND)	<50 (ND)
RRO	nc, nv	410 x	<250 (ND)	**510 x**	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (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

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup

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

J = the identification of the analyte is acceptable; the reported value is an estimate

** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-7	Well-7	Well-8	Well-8	Well-9	Well-9	Well-10	Well-10	Well-11	Well-11
Sample ID		Well #7	WELL-7-220126	Well #8	WELL-8-220126	Well #9	WELL-9-220126	Well #10	WELL-10-220126	Well #11	WELL-11-220126
Date Sampled		5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022
Sampler		ES	ENW	ES	ENW	ES	ENW	ENW	ENW	ENW	ENW
Location		North Parking Area - Center	North Parking Area - Center	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - East	North Parking Area - East	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner
Constituent of Interest	Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Volatile Organic Constituents (VOCs)											
Benzene	c, v	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)
Dichloroethylene;1,1-	nc, v		<1 (ND)		<1 (ND)		<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Dichloroethylene;1,2-,cis	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---
Methylene Chloride	c, v	---	---	---	---	---	---	<5 (ND)	<5 (ND)	<5 (ND)	---
Ethylene dibromide (EDB)	c, v	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)
Dichloroethane;1,2- (EDC)	c, v	---	<0.2 (ND)	---	<0.2 (ND)	---	<0.2 (ND)	<1 (ND)	<0.2 (ND)	<1 (ND)	<0.2 (ND)
Ethylbenzene	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Methyl tert-butyl ether (MTBE)	c, v	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)	---	<1 (ND)
Naphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	26 jl
Tetrachloroethylene (PCE)	c, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---
Toluene	nc, v	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)
Trichloroethane;1,1,1-	nc, v	---	---	---	---	---	---	<1 (ND)	<1 (ND)	<1 (ND)	---
Trichloroethylene (TCE)	c, v	---	---	---	---	---	---	<1 (ND)	<0.5 (ND)	<1 (ND)	---
Vinyl chloride	c, v	---	---	---	---	---	---	<0.2 (ND)	<0.02 (ND)	<0.2 (ND)	---
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)
Polyaromatic Hydrocarbons (Carcinogenic)											
Acenaphthene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	6.9
Anthracene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benz[a]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Chrysene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Fluoranthene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Fluorene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	2.3
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)
Naphthalene	c, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	26 jl
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	2.8 jl
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	<0.4 (ND)	---	0.83
Pyrene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)	---	<0.04 (ND)

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-7	Well-7	Well-8	Well-8	Well-9	Well-9	Well-10	Well-10	Well-11	Well-11
Sample ID		Well #7	WELL-7-220126	Well #8	WELL-8-220126	Well #9	WELL-9-220126	Well #10	WELL-10-220126	Well #11	WELL-11-220126
Date Sampled		5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022	5/4/2021	1/26/2022
Sampler		ES	ENW	ES	ENW	ES	ENW	ENW	ENW	ENW	ENW
Location		North Parking Area - Center	North Parking Area - Center	North Parking Area - Northeast Corner	North Parking Area - Northeast Corner	North Parking Area - East	North Parking Area - East	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner
Total Petroleum Hydrocarbons											
GRO	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)
DRO	nc, nv	<50 (ND)	<50 (ND)	53 x	<50 (ND)	110 x	<50 (ND)	55 x	<50 (ND)	150 x	170
RRO	nc, nv	300 x	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (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

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup

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

J = the identification of the analyte is acceptable; the reported value is an estimate

** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-12	Well-12	Well-13	Well-13	QA/QC		Maximum Ground Water Concentration (QA/QC not included)	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		Well #12	WELL-12-220126	Well #13	WELL-13-220126	WELL-FD-220127	Trip Blank				
Date Sampled		6/2/2021	1/26/2022	6/2/2021	1/26/2022	1/26/2022	1/26/2022				
Sampler		ES	ENW	ES	ENW	ENW	ENW				
Location		North Property Boundary	North Property Boundary	North Property Boundary	Proposed Play Area	Field duplicate of Well #10	Trip Blank				
Constituent of Interest	Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N
Volatile Organic Constituents (VOCs)											
Benzene	c, v	<1 (ND)	<0.35 (ND)	<1 (ND)	<0.35 (ND)	<0.35 (ND)	<0.35 (ND)	<1 (ND)	5	0.8	(Y)
Dichloroethylene;1,1-	nc, v		<1 (ND)		<1 (ND)	<1 (ND)	<1 (ND)	<1 (ND)	NE	400	N
Dichloroethylene;1,2-,cis	nc, v	---	---	---	---	<1 (ND)	---	<1 (ND)	NE	16	N
Dichloroethylene;1,2-,trans	nc, v	---	---	---	---	<1 (ND)	---	<1 (ND)	NE	160	N
Methylene Chloride	c, v	---	---	---	---	<5 (ND)	---	<5 (ND)	5	5.8	N
Ethylene dibromide (EDB)	c, v	---	<1 (ND)	---	<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)	<1 (ND)	5	0.48	(Y)
Ethylbenzene	c, v	<1 (ND)	<1 (ND)	<1 (ND)	<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)	<1 (ND)	20	24	N
Naphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	<0.4 (ND)	<0.4 (ND)	26 jl	160	160	N
Tetrachloroethylene (PCE)	c, v	---	---	---	---	<1 (ND)	---	<1 (ND)	5	21	N
Toluene	nc, v	2.0	<1 (ND)	9.4	<1 (ND)	<1 (ND)	<1 (ND)	9.4	1000	640	N
Trichloroethane;1,1,1-	nc, v	---	---	---	---	<1 (ND)	---	<1 (ND)	200	16000	N
Trichloroethylene (TCE)	c, v	---	---	---	---	<0.5 (ND)	---	<1 (ND)	5	0.54	(Y)
Vinyl chloride	c, v	---	---	---	---	<0.02 (ND)	---	<0.2 (ND)	0.2	0.029	(Y)
Xylenes	nc, v	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	<3 (ND)	1000	1600	N
Polyaromatic Hydrocarbons (Carcinogenic)											
Acenaphthene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	6.9	NE	480	N
Anthracene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	0.04	NE	2400	N
Benz[a]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Benzo[a]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	0.1 (**)	0.023 (**)	(Y)
Benzo[b]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Benzo[k]fluoranthene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Chrysene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Dibenz[a,h]anthracene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Fluoranthene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.05 (ND)	NE	640	N
Fluorene	nc, v	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	2.3	NE	320	N
Indeno[1,2,3-cd]pyrene	c, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	**	**	(Y)
Naphthalene	c, v	---	<0.4 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	26 jl	160	160	N
1-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	2.8 jl	NE	1.5	Y
2-Methylnaphthalene	nc, v	---	<0.4 (ND)	---	<0.4 (ND)	<0.4 (ND)	---	0.83	NE	32	N
Pyrene	nc, nv	---	<0.04 (ND)	---	<0.04 (ND)	<0.04 (ND)	---	<0.04 (ND)	NE	240	N

Table 3 - Summary of Analytical Data, Ground Water (Monitoring Wells)

Location ID		Well-12	Well-12	Well-13	Well-13	QA/QC		Maximum Ground Water Concentration (QA/QC not included)	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		Well #12	WELL-12-220126	Well #13	WELL-13-220126	WELL-FD-220127	Trip Blank				
Date Sampled		6/2/2021	1/26/2022	6/2/2021	1/26/2022	1/26/2022	1/26/2022				
Sampler		ES	ENW	ES	ENW	ENW	ENW				
Location		North Property Boundary	North Property Boundary	North Property Boundary	Proposed Play Area	Field duplicate of Well #10	Trip Blank				
Total Petroleum Hydrocarbons											
GRO	nc, v	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	<100 (ND)	---	<100 (ND)	800	NE	N
DRO	nc, nv	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	<50 (ND)	---	300 x	500	NE	N
RRO	nc, nv	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	<250 (ND)	---	**510 x**	500	NE	Y

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

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

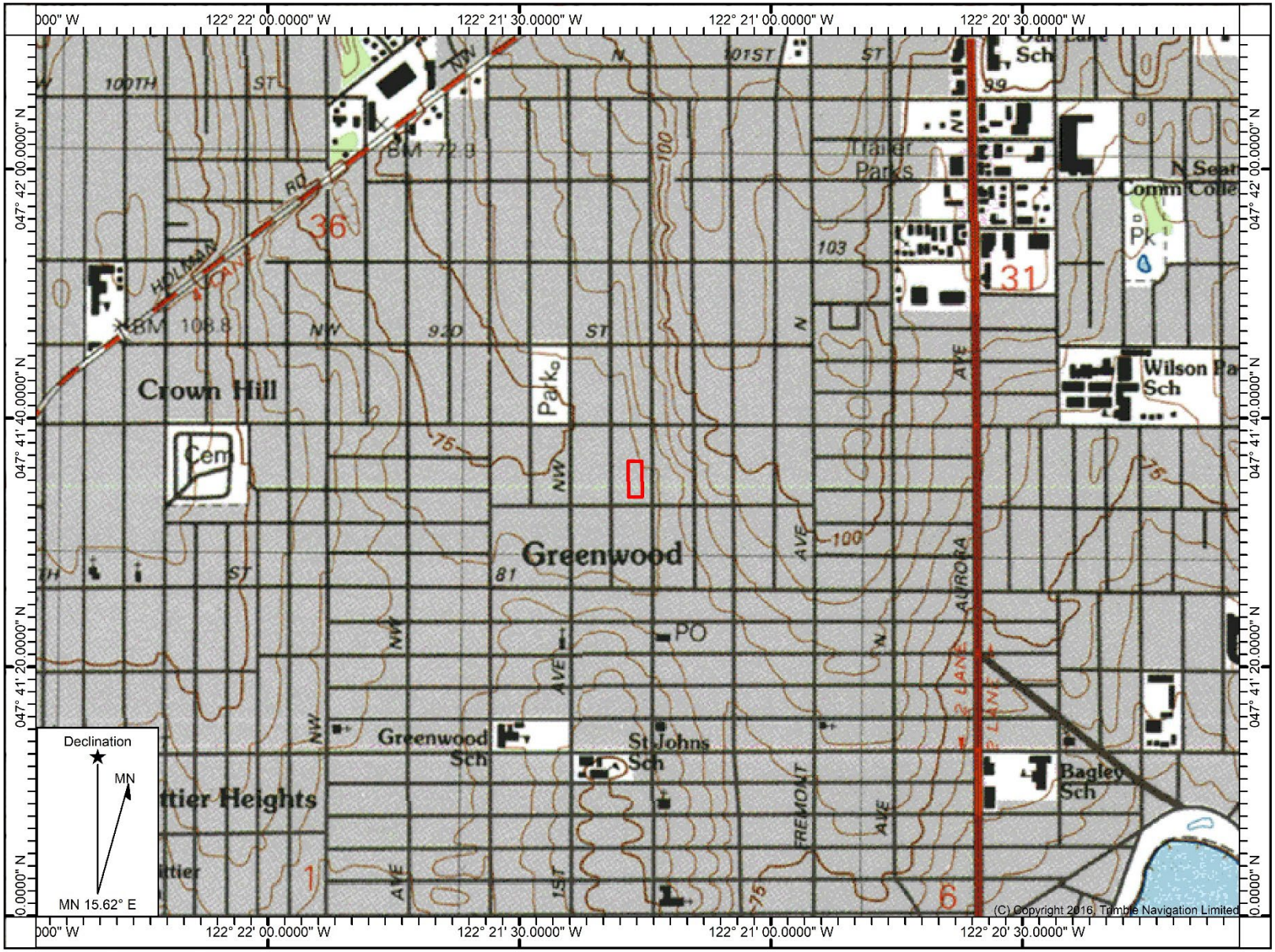
Bolded/Shaded concentrations exceed MTCA Method A or B Cleanup

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

J = the identification of the analyte is acceptable; the reported value is an estimate

** Cleanup level of carcinogenic PAHs based on cleanup standard for Benzo(a)pyrene

Figures



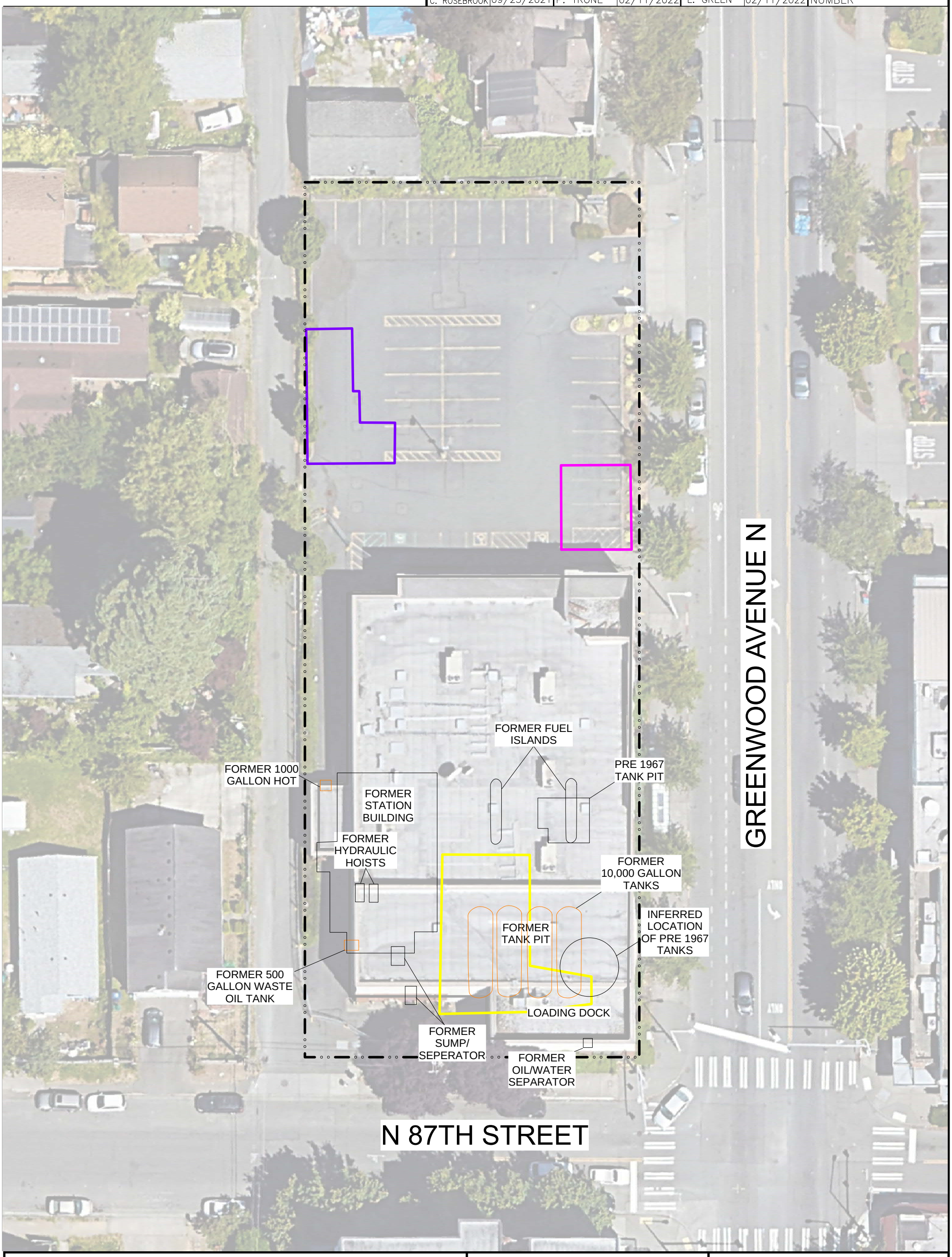
Name: SEATTLE NORTH
Date: 09/20/21

0 1000 2000 3000
Feet

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

EVREN NORTHWEST	Date Drawn: 2/28/2022 CAD File Name: 1581-21001-01_fig1sv_map.docx 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**

DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
C. ROSEBROOK	09/23/2021	P. TRONE	02/11/2022	L. GREEN	02/11/2022	1581-21001(v01)



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

0 30 60 FEET

N

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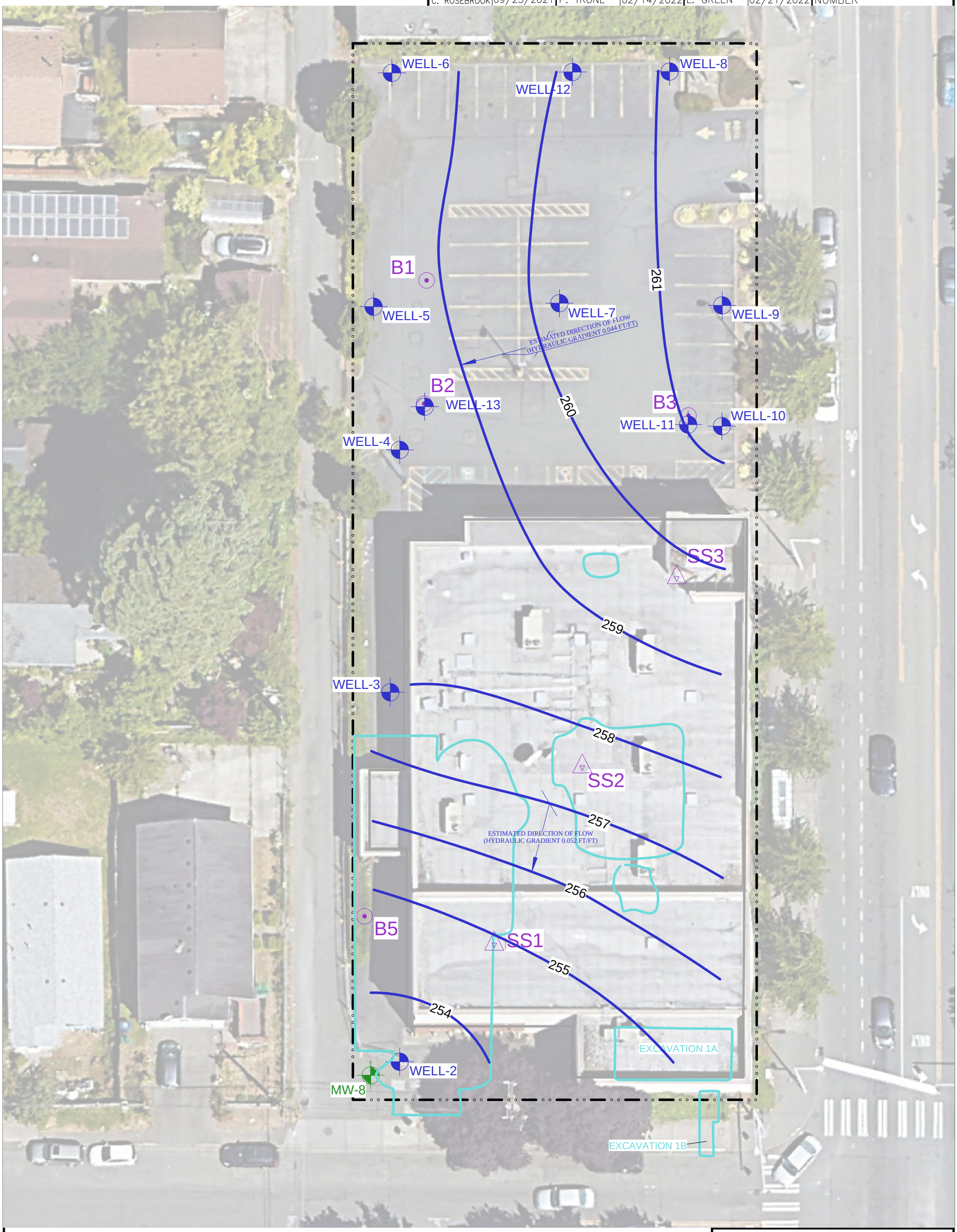
environmental / natural resource consultants
PO BOX 14488, PORTLAND, OREGON 97293
P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 2

SITE PLAN WITH HISTORICAL FEATURES OF INTEREST

FUTRUE KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
C. ROSEBROOK	09/23/2021	P. TRONE	02/14/2022	L. GREEN	02/21/2022	1581-21001(v01)



LEGEND:

- SUBJECT BUILDING
- SUBJECT PROPERTY BOUNDARIES
- PRIOR PCS EXCAVATION MARGINS
- MONITORING WELL LOCATION PER ENVIRONMENTAL SPECIALTIES MAY 2021
- MONITORING WELL LOCATION PER ENVIRONMENTAL RESOLUTIONS INC.

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

0 30 60 FEET

N

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FIGURE 3

SAMPLE LOCATION DIAGRAM

PROPOSED KIDDIE ACADEMY PROPERTY
8701 GREENWOOD AVENUE N
SEATTLE, WASHINGTON

Appendix A

Site Photographs

Gauging Well #2 with a depth to water meter.

Well casings was fitted with a locking compression cap.

Low-flow purge and sampling set up on Well #10 next to eastern site boundary using a peristaltic pump (blue box).

Low-flow purge and sampling set up on Well #7 (foreground) and Well #5 (background).

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

Well #5 along the western site boundary.

EVREN NORTHWEST INC 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

Field Sampling Data Sheets

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date:

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: 2

Weather Conditions: Start Time: 1203

DTW (prior to purging): 2.78

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)
1205		start	purge - water enters flow cell						
1206	3.78	160	9.48	309	2.78	6.98	74	80.0	500
1211	4.34	110	9.66	309	1.08	6.90	33	68.7	960
1215	4.56	110	9.58	311	1.13	6.89	23	67.3	1400
1216	4.95	100							
1220	4.95	~100 *	9.41	314	0.94	6.87	4	64.1	1500
1227	5.68	~100	9.40	316	0.82	6.86	-19	61.2	2200
1235	6.12		9.45	314	3.09	6.89	-79	>1000	3000
1237	pauses. emptied flow cell of sediment								
1240	5.90	~100	8.74	~~0.000~~ 298	12.80	6.84	-11	305	
1244	6.11	~100	8.64	316	2.33	6.95	-7	112	~4000
1249	6.15	~100	8.99	317	1.15	6.81	-22	102	~4500

* slowest setting possible Total Purged:

Tubing:

Purge Pumping Rate (approx. L/m): Well casing (in. diam):

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	well-2-220126	1254
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1		

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:

Geology BNW 850

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/26/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: WELL-3

Weather Conditions: cloudy 37° F Start Time: 11:07

DTW (prior to purging): 1.54 measured on 1/26/22

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	TDS (ppm) Turbidity (NTU), , ±10%	Total Quantity Purged (gallons/liters)
11:07	—		discharging from Hanna Flow cell						0.1
11:10	2.37	200	9.47	288	3.85	7.84	-275	139	0.7
11:14	3.08	"	9.67	277	2.17	7.94	-296	138	1.5
11:18	3.60	"	9.99	277	1.68	7.92	-313	138	2.3
11:22	3.84	"	10.14	277	1.57	7.90	-320	138	3.1
11:26	4.25	"	10.17	277	1.42	7.88	-330	139	3.9
11:30	4.25	150	10.07	277	1.30	7.87	-335	139	4.5
11:34	4.28	"	10.00	277	1.34	7.85	-339	139	5.1
			—	collect sample			—		

Total Purged:

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): 200 ml/min Well casing (in. diam): 2" PVC

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	WELL-3-220126	1143
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1		

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:

19.10' TD

soft @ bottom

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/26/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: Well-4

Weather Conditions: cloudy 37°F Start Time: 12:08

DTW (prior to purging): at top of casing and overflowing (Artesian)

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)
12:08			discharging from		4 minute	flow cell			0.1
12:13	over top of C	400	11.61	278	2.53	7.86	-453.	139	1.7
12:17	" "	"	11.69	278	1.65	7.85	-525	139	3.4
12:22	" "	"	11.73	278	1.45	7.82	-585	139	5.0
12:26	0.02	"	11.73	279	1.34	7.80	-614	139	6.6
12:30	~0.02	325	11.65	278	1.28	779	-629	139	7.9
12:34	0.02	"	11.68	278	1.22	778	-643	139	9.2

Total Purged:

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): ~400 ml/m Well casing (in. diam): 2" PVC

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6		
Dx PAHs	"	none	500 ml	1	WELL-4-220126	12:30
Carcinogenic PAHs	"	none	500 ml	1		

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:

19.35' TD

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/26/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: MWELL-5

Weather Conditions: cloudy 36°F Start Time: 10:03

DTW (prior to purging): 0.02 near top of casing

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% (TDS (ppm))	Total Quantity Purged (gallons/liters)
10:03	0.1			GW entering Hanna Flow cell					0.1
10:07	~0.30	225	12.26	278	3.73	7.74	-328	189	1.0
10:11	~0.39	"	12.37	278	1.63	7.75	-354	139	1.9
10:15	~0.5	"	12.29	278	1.42	7.73	-365	139	2.8
10:19	~0.8	"	12.51	278	1.27	7.69	-367	139	3.7
10:23	~0.6	"	12.50	278	1.24	7.66	-377	139	4.6
10:27	~0.6	"	12.50	278	1.24	7.65	-379	139	5.5

Total Purged:

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m):

Well casing (in. diam): 2" PVC

Decontamination method:

Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	MWELL-5-220126	10:37
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1		

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:

REN Northwest — GROUND WATER FIELD SAMPLING DATA FORM (FIELD)

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date:

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: 6

Weather Conditions: Start Time: 1000

DTW (prior to purging): 1.05

WELL PURGING INFORMATION

Time	DTW During Purging (feet)	Pumping Rate (mL/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)
1001	1.05		water	enters	cell				0
1004	1.54	130	8.19	284	1.47	7.08	111	37.9	500
1008	1.78	130	8.93	282	1.26	7.01	105	34.5	
1013	1.76	100	9.08	283	0.99	7.23	88	28.9	1560
1018	1.78	100	9.09	283	0.95	7.22	83	24.7	2060
1022	1.78	100	9.09	283	0.93	7.23	77	25.2	2460
1026	1.78	100	9.19	282	0.88	7.22	72	23.4	2860

Total Purged: 2860

Tubing: ¼"

Purge Pumping Rate (approx. L/m): 100 Well casing (in. diam): 2"

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	well-6-220126	1030
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1		

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:

Geologist when Tony BNW 846

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/26/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: WELL-7

Weather Conditions: cloudy 36°F Start Time: 9:09

DTW (prior to purging): 0.0' at top of casing

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% units TDS	Total Quantity Purged (gallons/liters)
9:10			water discharging from Hanna Flow cell						
9:16	~0.15	180	11.30	285	3.60	7.37	-255	143	1.45
9:22	0.20	"	11.46	285	1.52	7.61	-310	143	2.25
9:26	0.25	"	11.73	285	1.43	7.65	-328	143	3.00
9:30	0.25	"	11.82	285	1.41	7.61	-343	143	3.72
9:34	0.25	"	11.69	286	1.38	7.61	-348	143	4.5
				collect sample					

Total Purged: 4.5

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): 180 ml/min Well casing (in. diam): 2" PVC

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6		
Dx PAHs	"	none	500 ml	1	WELL-7-220126	9:45
Carcinogenic PAHs	"	none	500 ml	1		

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:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 1-26-22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: 8

Weather Conditions: Start Time: 0800

DTW (prior to purging): 2.31

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) mL
0802		water enters flow cell							
0806	2.500	160	8.5	272	11.3	6.86	135	49.6	500
0810	2.59	160	9.56	273	1.04	6.91	132	44.9	1300
0814	2.59	160	9.71	275	0.89	6.93	130	24.8	1920
0818	2.59	160	10.03	274	0.77	6.96	124	18.9	2560
0822	2.59	160	10.24	274	0.71	7.01	117	17.1	3200
0826	2.59	160	10.34	278	0.61	7.08	108	16.4	3840
0830	2.59	160	10.44	279	0.61	7.24	94	16.0	4480
0834	2.59	160	10.43	279	0.59	7.23	90	15.9	5120

Total Purged: 5120

Tubing: 1/4

Purge Pumping Rate (approx. L/m): 160 mL/m Well casing (in. diam): 2"

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	WELL-8-220126	0840
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1		

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:

Ecology BNW 845

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/26/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: WELL-9

Weather Conditions: cloudy Start Time: 8:06

DTW (prior to purging): 7.48 btoc (01/26/22

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% (units TDS)	Total Quantity Purged (gallons/liters)
8:07			GW	discharging from Manna flowcell					0
8:10	2.0	200	11.23	288	5.86	7.11	-177	—	0.5
8:14	2.14	"	11.31	281	3.97	7.17	-208	141	1.3
8:18	2.20	"	11.20	281	3.49	7.17	-209	140	2.1
8:22	2.24	200	11.44	281	2.40	7.16	-208	140	2.9
8:26	2.26	"	11.35	281	1.55	7.16	-206	140	3.7
8:30	2.26	"	11.64	281	1.42	7.14	-205	140	4.5
8:34	2.28	"	11.13	280	1.38	7.14	-204	140	5.3
8:38	2.30	"	11	281	1.33	7.13	-204	140	6.1
				X units	TDS	Total	dissolved	solids	

Total Purged: 6l

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): Well casing (in. diam): 2" PVC

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	WELL-9-220126	
Dx PAHs	"	none	500 ml	1		8:50
Carcinogenic PAHs	"	none	500 ml	1		

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:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/25/22

Field Personnel: Dan Sajko and Erik Chapman — WELL-10 Monitoring Well ID: ~~15:38~~ WELL-10

Weather Conditions: Sunny Start Time: 15:39

DTW (prior to purging): 0.1

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)
15:40	0.80	225	7.82	0.283	1.16	7.07	60	41.4	0.6
15:44	0.91	"	8.74	0.283	0.72	7.10	-24	25.2	1.5
15:48	0.93	"	9.17	0.281	0.59	7.09	-64	24.3	2.4
15:52	0.96	"	9.48	0.281	0.49	7.09	-93	21.5	3.3
15:56	0.99	200	9.46	0.281	0.47	7.08	-109	19.4	4.1
16:00	0.90	"	9.27	0.281	0.46	7.08	-115	18.3	4.9
16:04	0.90	"	9.36	0.282	0.44	7.09	-124	18.1	5.7

Total Purged: 5.7

Tubing: 1/4" LDPE (dedicated)

Purge Pumping Rate (approx. L/m): 225 ml/min

Well casing (in. diam): 2"

Decontamination method:

Approx. Pump/Intake Depth: ~

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	WELL-10-220125	16:22
Dx PAHs	"	none	500 ml	1		
Carcinogenic PAHs	"	none	500 ml	1	WELL-FD-220125	11:30

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:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 01/25/22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: WELL-11

Weather Conditions: Sunny. 43°F Start Time: 16:28

DTW (prior to purging): ~ 0.05'

WELL PURGING INFORMATION

Time	DTW During Purging (feet)	Pumping Rate (mL/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)
16:32	~0.07	150	8.24	0.287	1.36	6.85	-65	31.1	0.6
16:36	0.07	"	8.84	0.287	0.99	7.08	-131	23.5	1.20
16:40	0.07	"	8.84	0.287	0.93	7.09	-137	21.6	1.80
16:44	0.07	"	8.98	0.287	0.81	7.05	-142	21.8	2.4
16:48	0.07	"	9.09	0.287	0.79	7.04	-145	21.9	3.0
16:52	0.07	"	9.21	0.287	0.76	7.05	-147	21.0	3.6
					collect	sample	-		

Total Purged: 3.6

Tubing: 1/4" LDPE

Purge Pumping Rate (approx. L/m): 150 ml/min Well casing (in. diam): 2" PVC

Decontamination method: Approx. Pump/Intake Depth: ~

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6		
Dx PAHs	"	none	500 ml	1	WELL-11-220125	17:01
Carcinogenic PAHs	"	none	500 ml	1		

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:

* odor smells decomposed / sulfur

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date: 1-26-22

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: 12

Weather Conditions: Start Time: 0856

DTW (prior to purging): 0.95 (approx)

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)
0858		start purge							0
0901		flow cell full							500
0903	1.19	185							925
0907	1.21	150	9.18	285	1.02	7.22	127	14.8	1665
0915	1.19	150	9.22	286	0.89	7.21	120	14.6	2865
0923	1.19	150	9.35	285	0.84	7.21	93	14.7	4065
0931	1.19	150	9.46	284	0.80	7.20	45	14.6	5265
0935	1.19	150	9.61	284	0.80	7.21	20	14.5	5865

Total Purged:

Tubing: 1/4

Purge Pumping Rate (approx. L/m): 150 ml/m Well casing (in. diam): 2"

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	WELL-12-220126	0938
Dx PAHs	"	none	500 ml	1	↓	↓
Carcinogenic PAHs	"	none	500 ml	1	↓	

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:

Ecology BMT 401

Well Tag #

Signature of Field Personnel:

EVREN Northwest **GROUND WATER FIELD SAMPLING DATA FORM (FIELD)**

PROJECT NAME: **8701 Greenwood Avenue N. Seattle** PROJECT NUMBER: **1581-21001-01**

Event: Ground Monitoring Date:

Field Personnel: Dan Sajko and Erik Chapman Monitoring Well ID: 13

Weather Conditions: Start Time: 1104

DTW (prior to purging): artesian - WL > TOC

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)
1106		water	ambus	flow	cell				
1109	0.00	175	9.08	285	2.63	7.02	113	38.7	500
1114	0.00	175	10.31	278	0.84	7.15	20	26.7	1400
1118	0.00	180	10.67	280	0.74	7.19	-18	29.1	2100
1124	0.10	180	10.78	280	0.76	7.19	-33	25.2	3240
1128	0.05	180	11.05	277	0.61	7.18	-48	22.4	3960
1134	0.02	180	11.13	277	0.60	7.19	-61	19.6	5040
	TD = 20.02'								

Total Purged: 5040

Tubing: 1/4"

Purge Pumping Rate (approx. L/m): 180 Well casing (in. diam): 2"

Decontamination method: Approx. Pump/Intake Depth:

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
Gx, RBDM VOCs,	F + B	HCl	40ml	6	Well-13-220126	1140
Dx PAHs	"	none	500 ml	1	(	
Carcinogenic PAHs	"	none	500 ml	1		

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:

Geology Well Tag Bmt 403

Signature of Field Personnel:

Appendix C

Laboratory Analytical Report

Summary: DATA VALID? ☒YES

Analytical Laboratory Data Validation Check Sheet

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

Date of Review: 02/04/2022 Lab. Name: **F&BI** Lab Batch ID #: 201373

Chain of Custody

1.) Are all requested analyses reported?	☒yes	☐no	
2.) Were the requested methods used?	☒yes	☐no	
3.) Trip blank submitted?	☒yes	☐no	
4.) Field blank submitted?	☒yes	☐no	
Timing			
5.) Samples extracted within holding times?	☒yes	☐no	
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
6.) Analysis performed within holding times?	☒yes	☐no	
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
Quality Assurance/Quality Control			
7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs)	☒yes	☐no	
8.) Are all reported values above either MRL or MDL?	☒yes	☐no	
9.) Are all values between the MDL & PQL tagged as trace?	☐yes	☐no	☒NA
10a.) Are reporting limits raised for other reason besides high analyte conc.?	☐yes	☒no	
10b.) If so, are they footnoted?	☐yes	☐no	☒NA
11.) Lab method blank completed?	☒yes	☐no	
12.) Lab, Field, or Trip Blank(s) report detections?	☐yes	☒no	

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

13.) For inorganics and metals, is there one method blank for each analyte?	☐yes	☐no	☒NA
If not, are all discrepancies footnoted?	☐yes	☐no	
14.) For VOCs, is there one method blank for each day of analysis?	☒yes	☐no	☐NA
If not, are all discrepancies footnoted?	☐yes	☐no	
15.) For SVOC's, is there one method blank for each extraction batch?	☒yes	☐no	☐NA
If not, are all discrepancies footnoted?	☐yes	☐no	
Accuracy			
16.) Is there a surrogate spike recovery for all VOC & SVOC samples?	☒yes	☐no	☐NA
Do all surrogate spike recoveries meet accepted criteria?	☒yes	☐no	
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
17.) Is there a spike recovery for all Laboratory Control Samples?	☒yes	☐no	☐NA
Do all LCS/LCSD spike recoveries meet accepted criteria?	☐yes	☒no	
If not, are all discrepancies footnoted? **See comment vo**	☒yes	☐no	☐NA
18.) Are all LCS/LCSD RPDs within acceptable limits?	☒yes	☐no	☐NA
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
Precision			
19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits?	☒yes	☐no	☐NA
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits?	☒yes	☐no	☐NA
If not, are all discrepancies footnoted?	☐yes	☐no	☒NA
21.) Do all RPD calculations for Field Duplicates meet accepted criteria?	☒yes	☐no	☐NA

Comments:

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.

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February 4, 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 January 26, 2022 from the 1581-21001-02, F&BI 201373 project. There are 39 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
ENW0204R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on January 26, 2022 by Friedman & Bruya, Inc. from the Evren Northwest 1581-21001-02, F&BI 201373 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Evren Northwest
201373 -01	WELL-2-220126
201373 -02	WELL-3-220126
201373 -03	WELL-4-220126
201373 -04	WELL-5-220126
201373 -05	WELL-6-220126
201373 -06	WELL-7-220126
201373 -07	WELL-8-220126
201373 -08	WELL-9-220126
201373 -09	WELL-10-220126
201373 -10	WELL-11-220126
201373 -11	WELL-13-220126
201373 -12	WELL-FD-220126
201373 -13	Trip Blank
201373 -14	WELL-12-220126

Several compounds in the 8270E laboratory control sample and laboratory control sample duplicate exceeded the acceptance criteria. The affected data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373
Date Extracted: 02/02/22
Date Analyzed: 02/02/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
WELL-2-220126 201373-01	<100	95
WELL-3-220126 201373-02	<100	93
WELL-4-220126 201373-03	<100	91
WELL-5-220126 201373-04	<100	94
WELL-6-220126 201373-05	<100	95
WELL-7-220126 201373-06	<100	93
WELL-8-220126 201373-07	<100	91
WELL-9-220126 201373-08	<100	90
WELL-10-220126 201373-09	<100	92
WELL-11-220126 201373-10	<100	93
WELL-13-220126 201373-11	<100	93

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373
Date Extracted: 02/02/22
Date Analyzed: 02/02/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
WELL-FD-220126 201373-12	<100	93
WELL-12-220126 201373-14	<100	91
Method Blank 02-0171 mb	<100	93

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373
Date Extracted: 01/31/22
Date Analyzed: 01/31/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Residual Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
WELL-2-220126 201373-01	<50	<250	145
WELL-3-220126 201373-02	<50	<250	134
WELL-4-220126 201373-03	<50	<250	141
WELL-5-220126 201373-04	64	<250	116
WELL-6-220126 201373-05	<50	<250	131
WELL-7-220126 201373-06	<50	<250	142
WELL-8-220126 201373-07	<50	<250	127
WELL-9-220126 201373-08	<50	<250	147
WELL-10-220126 201373-09	<50	<250	118
WELL-11-220126 201373-10	170	<250	123
WELL-13-220126 201373-11	<50	<250	134
WELL-FD-220126 201373-12	<50	<250	134

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373
Date Extracted: 01/31/22
Date Analyzed: 01/31/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Residual Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
WELL-12-220126 201373-14	<50	<250	128
Method Blank 02-0270 MB	<50	<250	146

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-2-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-01
Date Analyzed:	02/01/22	Data File:	020139.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	95	87	115
4-Bromofluorobenzene	97	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-3-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-02
Date Analyzed:	02/02/22	Data File:	020216.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	78	126
Toluene-d8	97	87	115
4-Bromofluorobenzene	93	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-4-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-03
Date Analyzed:	02/02/22	Data File:	020217.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	93	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-5-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-04
Date Analyzed:	02/02/22	Data File:	020218.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	78	126
Toluene-d8	88	87	115
4-Bromofluorobenzene	95	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-6-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-05
Date Analyzed:	02/02/22	Data File:	020244.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	96	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-7-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-06
Date Analyzed:	02/02/22	Data File:	020245.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	78	126
Toluene-d8	96	87	115
4-Bromofluorobenzene	99	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-8-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-07
Date Analyzed:	02/02/22	Data File:	020246.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	78	126
Toluene-d8	96	87	115
4-Bromofluorobenzene	98	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-9-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-08
Date Analyzed:	02/02/22	Data File:	020247.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	116	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	96	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-10-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-09
Date Analyzed:	02/02/22	Data File:	020248.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	78	126
Toluene-d8	96	87	115
4-Bromofluorobenzene	100	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-11-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-10
Date Analyzed:	02/02/22	Data File:	020249.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	78	126
Toluene-d8	92	87	115
4-Bromofluorobenzene	94	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-13-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-11
Date Analyzed:	02/03/22	Data File:	020250.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	96	87	115
4-Bromofluorobenzene	97	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-FD-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-12
Date Analyzed:	02/03/22	Data File:	020251.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	95	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-13
Date Analyzed:	02/01/22	Data File:	020138.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	96	87	115
4-Bromofluorobenzene	102	92	112

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

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	WELL-12-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	02/01/22	Lab ID:	201373-14
Date Analyzed:	02/03/22	Data File:	020252.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	111	78	126
Toluene-d8	99	87	115
4-Bromofluorobenzene	101	92	112

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

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 201373
Date Extracted:	02/01/22	Lab ID:	02-0280 mb
Date Analyzed:	02/02/22	Data File:	020215.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	78	126
Toluene-d8	94	87	115
4-Bromofluorobenzene	94	92	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
Methyl t-butyl ether (MTBE)	<1
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<0.2
1,1,1-Trichloroethane	<1
Benzene	<0.35
Trichloroethene	<0.5
Toluene	<1
Tetrachloroethene	<1
1,2-Dibromoethane (EDB)	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-2-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-01 1/2
Date Analyzed:	02/01/22	Data File:	020110.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	10	60
Phenol-d6	31	10	49
Nitrobenzene-d5	104	15	144
2-Fluorobiphenyl	89	25	128
2,4,6-Tribromophenol	89	10	142
Terphenyl-d14	103	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-3-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-02 1/2
Date Analyzed:	02/01/22	Data File:	020111.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	10	60
Phenol-d6	31	10	49
Nitrobenzene-d5	102	15	144
2-Fluorobiphenyl	83	25	128
2,4,6-Tribromophenol	83	10	142
Terphenyl-d14	103	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-4-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-03 1/2
Date Analyzed:	02/01/22	Data File:	020112.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	10	60
Phenol-d6	28	10	49
Nitrobenzene-d5	101	15	144
2-Fluorobiphenyl	88	25	128
2,4,6-Tribromophenol	84	10	142
Terphenyl-d14	102	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	1.5
Fluorene	0.29
Phenanthrene	0.21
Anthracene	<0.04
Fluoranthene	0.050
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-5-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-04 1/2
Date Analyzed:	02/01/22	Data File:	020113.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	38	10	60
Phenol-d6	28	10	49
Nitrobenzene-d5	97	15	144
2-Fluorobiphenyl	83	25	128
2,4,6-Tribromophenol	87	10	142
Terphenyl-d14	102	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	4.1
Fluorene	1.3
Phenanthrene	0.36
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-6-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-05 1/2
Date Analyzed:	02/01/22	Data File:	020114.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	10	60
Phenol-d6	31	10	49
Nitrobenzene-d5	96	15	144
2-Fluorobiphenyl	89	25	128
2,4,6-Tribromophenol	82	10	142
Terphenyl-d14	93	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-7-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-06 1/2
Date Analyzed:	02/01/22	Data File:	020115.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	42	10	60
Phenol-d6	30	10	49
Nitrobenzene-d5	108	15	144
2-Fluorobiphenyl	93	25	128
2,4,6-Tribromophenol	88	10	142
Terphenyl-d14	100	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-8-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-07 1/2
Date Analyzed:	02/01/22	Data File:	020116.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	42	10	60
Phenol-d6	31	10	49
Nitrobenzene-d5	101	15	144
2-Fluorobiphenyl	93	25	128
2,4,6-Tribromophenol	83	10	142
Terphenyl-d14	101	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-9-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-08 1/2
Date Analyzed:	02/01/22	Data File:	020117.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	19	10	60
Phenol-d6	17	10	49
Nitrobenzene-d5	57	15	144
2-Fluorobiphenyl	65	25	128
2,4,6-Tribromophenol	80	10	142
Terphenyl-d14	102	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-10-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-09 1/2
Date Analyzed:	02/01/22	Data File:	020118.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	39	10	60
Phenol-d6	28	10	49
Nitrobenzene-d5	94	15	144
2-Fluorobiphenyl	84	25	128
2,4,6-Tribromophenol	87	10	142
Terphenyl-d14	106	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-11-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-10 1/2
Date Analyzed:	02/01/22	Data File:	020119.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	37	10	60
Phenol-d6	28	10	49
Nitrobenzene-d5	92	15	144
2-Fluorobiphenyl	81	25	128
2,4,6-Tribromophenol	88	10	142
Terphenyl-d14	101	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	26 jl
2-Methylnaphthalene	0.83
1-Methylnaphthalene	2.8 jl
Acenaphthylene	<0.04
Acenaphthene	6.9
Fluorene	2.3
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-13-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-11 1/2
Date Analyzed:	02/01/22	Data File:	020120.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	38	10	60
Phenol-d6	30	10	49
Nitrobenzene-d5	93	15	144
2-Fluorobiphenyl	83	25	128
2,4,6-Tribromophenol	79	10	142
Terphenyl-d14	98	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-FD-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-12 1/2
Date Analyzed:	02/01/22	Data File:	020121.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	32	10	60
Phenol-d6	24	10	49
Nitrobenzene-d5	83	15	144
2-Fluorobiphenyl	69	25	128
2,4,6-Tribromophenol	75	10	142
Terphenyl-d14	96	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	WELL-12-220126	Client:	Evren Northwest
Date Received:	01/26/22	Project:	1581-21001-02, F&BI 201373
Date Extracted:	01/31/22	Lab ID:	201373-14 1/2
Date Analyzed:	02/01/22	Data File:	020122.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	40	10	60
Phenol-d6	29	10	49
Nitrobenzene-d5	89	15	144
2-Fluorobiphenyl	77	25	128
2,4,6-Tribromophenol	86	10	142
Terphenyl-d14	105	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
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
Benzo(g,h,i)perylene	<0.08

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 201373
Date Extracted:	01/31/22	Lab ID:	02-271 mb
Date Analyzed:	02/01/22	Data File:	020109.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	22	10	60
Phenol-d6	14	10	49
Nitrobenzene-d5	91	15	144
2-Fluorobiphenyl	84	25	128
2,4,6-Tribromophenol	76	10	142
Terphenyl-d14	91	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
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
Benzo(g,h,i)perylene	<0.04

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373

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

Laboratory Code: 201443-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	108	69-134

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373

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

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	120	120	63-142	0

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373

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

Laboratory Code: 201373-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	108	50-150
Chloroethane	ug/L (ppb)	10	<1	121	50-150
1,1-Dichloroethene	ug/L (ppb)	10	<1	110	50-150
Methylene chloride	ug/L (ppb)	10	<5	112	50-150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	104	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	103	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	106	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	106	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	110	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	105	50-150
Benzene	ug/L (ppb)	10	<0.35	97	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	105	50-150
Toluene	ug/L (ppb)	10	<1	107	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	103	50-150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	97	50-150
Ethylbenzene	ug/L (ppb)	10	<1	102	50-150
m,p-Xylene	ug/L (ppb)	20	<2	104	50-150
o-Xylene	ug/L (ppb)	10	<1	105	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	109	116	70-130	6
Chloroethane	ug/L (ppb)	10	119	126	70-130	6
1,1-Dichloroethene	ug/L (ppb)	10	107	114	70-130	6
Methylene chloride	ug/L (ppb)	10	103	117	43-134	13
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	99	108	70-130	9
trans-1,2-Dichloroethene	ug/L (ppb)	10	101	109	70-130	8
1,1-Dichloroethane	ug/L (ppb)	10	103	110	70-130	7
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	111	70-130	7
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	109	112	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	10	103	111	70-130	7
Benzene	ug/L (ppb)	10	96	100	70-130	4
Trichloroethene	ug/L (ppb)	10	105	109	70-130	4
Toluene	ug/L (ppb)	10	106	110	70-130	4
Tetrachloroethene	ug/L (ppb)	10	107	111	70-130	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	97	99	70-130	2
Ethylbenzene	ug/L (ppb)	10	101	106	70-130	5
m,p-Xylene	ug/L (ppb)	20	103	108	70-130	5
o-Xylene	ug/L (ppb)	10	102	109	70-130	7

Date of Report: 02/04/22
Date Received: 01/26/22
Project: 1581-21001-02, F&BI 201373

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	88	91 vo	62-90	3
2-Methylnaphthalene	ug/L (ppb)	5	92	92	64-93	0
1-Methylnaphthalene	ug/L (ppb)	5	95 vo	95 vo	64-93	0
Acenaphthylene	ug/L (ppb)	5	94	95	70-130	1
Acenaphthene	ug/L (ppb)	5	97	97	70-130	0
Fluorene	ug/L (ppb)	5	105	101	70-130	4
Phenanthrene	ug/L (ppb)	5	97	100	70-130	3
Anthracene	ug/L (ppb)	5	95	100	70-130	5
Fluoranthene	ug/L (ppb)	5	93	102	70-130	9
Pyrene	ug/L (ppb)	5	96	100	70-130	4
Benz(a)anthracene	ug/L (ppb)	5	100	102	70-130	2
Chrysene	ug/L (ppb)	5	99	101	70-130	2
Benzo(a)pyrene	ug/L (ppb)	5	92	94	70-130	2
Benzo(b)fluoranthene	ug/L (ppb)	5	99	98	70-130	1
Benzo(k)fluoranthene	ug/L (ppb)	5	103	103	70-130	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	100	113	70-130	12
Dibenz(a,h)anthracene	ug/L (ppb)	5	103	120	70-130	15
Benzo(g,h,i)perylene	ug/L (ppb)	5	103	120	70-130	15

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.

201373

SAMPLE CHAIN OF CUSTODY

01-26-22

D01 EOY / VW6 / VW5 / LTC4

Page # 1 of 2

Report To Lynn Green
Company Evren Northwest
Address PO Box 14486
City, State, ZIP Portland OR
Phone 503 452-5516 Email lyang@evren-nw.com

SAMPLERS (*signature*)

PROJECT NAME: 1581-2001-02

PO #

REMARKS
* VOCs (RBDMS)
** carcinogenic PAHs
Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
☒ Standard turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Archive samples
☐ Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260 *	PAHs EPA 8270 **	PCBs EPA 8082	VOCs 8260				Notes
WELL-2-220126	01A-H	01/26/22	12:54	GW	8	X	X			X	X						time = 1247 on label
WELL-3-220126	02	01/26/22	11:43	GW	8	X	X			X	X		X				VOCs = BTEX
WELL-4-220126	03	01/26/22	12:40	GW	8	X	X			X	X		X				MTBE, EDB, EDC
WELL-5-220126	04	01/26/22	10:37	GW	8	X	X			X	X						per DS 1/27/22 ML
WELL-6-220126	05	01/26/22	10:30	GW	8	X	X			X	X						
WELL-7-220126	06	01/26/22	9:45	GW	8	X	X			X	X						
WELL-8-220126	07	01/26/22	8:40	GW	8	X	X			X	X						
WELL-9-220126	08	01/26/22	8:50	GW	8	X	X			X	X						
WELL-10-220125	09	01/25/22	16:22	GW	8	X	X			X	X		X				
WELL-11-220125	10	01/25/22	17:01	GW	8	X	X			X	X						

ANALYSES REQUESTED

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Dan Sayko	ENW	01/26/22	1431
Received by:	Tekala C.	Tekala Christensen	F+B	01/26/22	14:37
Relinquished by:					
Received by:					

Samples received at 0 °C

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

NP

201373

SAMPLE CHAIN OF CUSTODY

01-26-22

~~604~~ / VW6/VW5/LTC4

Page # 2 of 2

Report To _____

Company _____

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (*signature*)

PROJECT NAME: 1581-2100 1-02

PO #

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- ☐ Standard turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	cVOCs				Notes
						ANALYSES REQUESTED											
WELL13-220126	11 A-H	01/26/22	11:40	GW	8	X	X			(X)	X						(X) per DS 1/27/22 ME
WELL-FD-220125	12 ↓	01/25/22	11:30	GW	8	X	X			(X)	X		X				
Trip Blank	13A-B	01/26/22	—	W	2					X							
Well-12-220126	14 A-H	01/26/22	0938	W	8	(X)	(X)			(X)	(X)						Added @ Lab TWC 01-26-22

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Dan Sayle			
Received by: Tokala C.	Tokala Christensen	F+B	01/26/22	14:31
Relinquished by:				
Received by:		Samples received at	6	°C

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