

Data Gaps Site Assessment

Airport Kwik Stop Ione, Washington

for

Washington State Department of Ecology

March 8, 2024



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Data Gaps Site Assessment

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1.0 INTRODUCTION

This report presents the results of the Data Gaps Assessment completed at the Airport Kwik Stop site (Site) located at 238 Greenhouse Road (Property) in Ione, Washington. The Site is shown on the Vicinity Map, Figure 1.

The Washington State Department of Ecology (Ecology) plans to complete an interim action at the Site (Ecology Cleanup Site Identification Number 4203) where petroleum hydrocarbons from former underground storage tank (UST) dispenser release(s) at the former Airport Kwik Stop contaminated soil and groundwater. The planned interim action included removal of former fuel station infrastructure and excavation of shallow contaminated soil. The purpose of the Data Gaps Assessment was to evaluate the current nature and extent of soil and groundwater contamination at the Site to assist with the design of the interim action.

This report was prepared in accordance with our Ecology-approved Work Plan (GeoEngineers 2023b), executed under Amendment No. 1 to TD&H Engineering, Inc.'s (TD&H) Contract No. 2200083 with Ecology (GeoEngineers 2023a).

2.0 SITE DESCRIPTION AND BACKGROUND

The Airport Kwik Stop site is located in Ione, Washington, to the north and east of the Ione Municipal Airport. The site generally slopes to the east toward the Pend Oreille River and includes the former Airport Kwik Stop property, the Former Cabin Grill property and undeveloped properties to the east (downgradient) of the former Airport Kwik Stop. Current property use at each of these properties is as follows:

- Former Airport Kwik Stop: The former Kwik Stop building located at the northwest corner of the intersection of State Route 31 (SR 31) and Greenhouse Road previously operated as a general store and gasoline service station. The general store has not dispensed gasoline for many years; however, the former store building, fuel pumps and associated lines are still on site.
- Former Cabin Grill: The Former Cabin Grill property is currently a private residence.
- Undeveloped Properties Downgradient (East) of the Airport Kwik Stop: The properties east of the Airport Kwik Stop across SR 31 consist of undeveloped timber and pasture land and are referred to as 'Vacant Property.'

2.1. Previous Site Investigations

Between 2010 and 2022, GeoEngineers and Ecology completed numerous site assessments and groundwater sampling events to characterize contamination at the site. Site characterization and groundwater monitoring results indicated gasoline-range petroleum hydrocarbon (GRPH)-contaminated groundwater was present beneath the site, extending from the former Airport Kwik Stop property, downgradient to the Cabin Grill property and undeveloped property to the north, east and south of the Cabin Grill property (GeoEngineers 2017).

GeoEngineers and Ecology also conducted multiple interim remedial actions including soil vapor extraction and air sparge treatment systems. GeoEngineers also developed an in-situ remediation plan to address the contamination present in soil and groundwater at the site via a combination of bioremediation amendment



and in-situ chemical oxidation (ISCO) injections (GeoEngineers 2017). One round of this in-situ treatment was performed in 2017.

2.2. Current Status

In 2021, TD&H was contracted by Ecology to oversee the design and implementation of a remediation plan that included demolition of the fuel canopy over the former fuel pump islands, excavation of contaminated soil, addition of remedial products at the bottom of the excavation to provide passive treatment to remaining contaminated soil and groundwater and site restoration. During the design process, the cost to shore the excavation and the limited space for excavation led to questions about the effectiveness of excavating contaminated soil, particularly since the subsurface conditions were not investigated following previous remediation efforts. In March 2023, TD&H and GeoEngineers recommended additional investigation to assess current contaminant concentrations in soil and groundwater to determine if the planned remedial approach was appropriate.

Specifically, the goals of the additional soil and groundwater sampling described in this assessment report were as follows:

- Soil data gaps: Collect current soil data within the former release area to estimate the remaining vadose-zone contamination, particularly within the upper 10 feet of the soil column, which is accessible for remedial excavation using a driven shoring system. Soil data was also collected to evaluate potential in-situ remedial alternatives for the site.
- Groundwater data gaps: Collect current groundwater data over two groundwater monitoring events to evaluate remaining dissolved-phase contaminant concentrations. Groundwater data was also collected to evaluate potential in-situ remedial alternatives for the site.

3.0 FIELD INVESTIGATION ACTIVITIES

To assess current soil and groundwater contamination at the site, GeoEngineers performed a limited soil and groundwater assessment. The following sections describe field activities completed, including drilling and soil sampling and groundwater sampling, and a discussion of observed subsurface conditions. Based on site conditions, some modifications to the Work Plan were implemented described below.

3.1. Soil Assessment

Cascade Environmental Drilling, LLC (Cascade) advanced five borings (B-8 through B-12) to approximately 41.5 feet below ground surface (bgs) beneath and surrounding the fuel station canopy between September 13 and September 14, 2023, using a limited access Hollow Stem Auger drill rig. Boring locations are shown in Figure 2, and boring logs are included in Appendix A. Boring locations were cleared for underground utilities prior to drilling.

Soil samples were obtained from the borings using a Dames and Moore (DM) sampler at 2.5-foot intervals. Soil samples were field screened for petroleum hydrocarbons using photoionization detector (PID) measurements and water sheen and odor observations. Field screening results are included in the boring logs (Appendix A), and PID results are summarized in Table I below.



TABLE I. SUMMARY OF PID FIELD SCREENING RESULTS

			PID Results (ppm)	
Screening Depth	B-8	B -9	B-10	B-11	B-12
2.5 - 4	2.7	1.8		23	<1
5 - 6.5	3.8	1.0	<1	3,109	114
7.5 – 9	1.7	1.1		85.9	9.6
10 - 11.5	2.7	1.4	<1	14.6	1.3
12.5 - 14	1.8	2.4		10.1	3.1
15 - 16.5	1.8	2.0	<1	14.7	5.2
17.5 - 19	2.3	1.2		26.4	10
20 - 21.5	3.3	<1	<1	36.7	<1
22.5 - 24	8.5	1.3	<1	32	6.2
25 - 26.5	3.9	<1	<1	41.3	1.5
27.5 - 29	4.5	1.2	<1	78.2	1.3
30 - 31.5	2.9	1.4	<1	15	1.1
32.5 - 34	1.6	<1	<1	596.3	1.3
35 - 36.5	1,017	1.0	<1	218	4.1
37.5 - 39	1,585	440	<1	265	1,136
40 - 41.5	<1	180	<1	28.2	42

Notes: PID = photoionization detector; ppm = parts per million; <1 = less than 1 ppm; '—' = depth interval not screened

Soil from each sample interval was placed in laboratory-prepared sample containers and four samples from each boring were submitted for chemical analysis as summarized in Table II below. Borings were backfilled with bentonite chips and were completed with concrete or surface soil to match the existing ground surface.

TABLE II. SUMMARY OF SOIL SAMPLES SUBMITTED FOR ANALYSIS

Soil Boring	Sample Interval Submitted for Analysis (feet bgs)	Sample Name
	12.5 - 14	B-8 (12.5 - 14)
B-8	25 - 26.5	B-8 (25 - 26.5)
D-O	37.5 - 39	B-8 (37.5 - 39)
	40 - 41.5	B-8 (40 - 41.5)
	12.5 - 14	B-9 (12.5 - 14)
B-9	27.5 - 29	B-9 (27.5 - 29)
D-9	37.5 - 39	B-9 (37.5 - 39)
	40 - 41.5	B-9 (40 - 41.5)
	10 - 11.5	B-10 (10 - 11.5)
B-10	25 - 26.5	B-10 (25 - 26.5)
	32.5 - 34	B-10 (32.5 - 34)



Soil Boring	Sample Interval Submitted for Analysis (feet bgs)	Sample Name
	40 - 41.5	B-11 (40 - 41.5)
	5 - 6.5	B-11 (5 - 6.5)
D 44	20 - 21.5	B-11 (20 - 21.5)
B-11	32.5 - 34	B-11 (32.5 - 34)
	40 - 41.5	B-11 (40 - 41.5)
	5 - 6.5	B-12 (5 - 6.5)
D 40	17.5 - 19	B-12 (17.5 - 19)
B-12	37.5 - 39	B-12 (37.5 - 39)
	40 - 41.5	B-12 (40 - 41.5)

3.2. Subsurface Conditions

Subsurface soil observed from borings B-8 through B-12 generally consisted of fine to coarse sand with occasional gravel between 2.5 feet to 39 feet overlying sand with trace clay from 40 to 41.5 feet. Wet soil representative of groundwater was observed in the samples collected from 37.5 and 40 feet bgs.

3.3. Groundwater Assessment

Depth to water and well headspace volatile organic vapor concentrations were measured, wells were checked for the presence of product and groundwater samples were collected in monitoring wells MW-3, MW-8, MW-10, MW-11, MW-14, MW-15, MW-16, MW-17 and MW-18 in September and November 2023 in accordance with the Work Plan (GeoEngineers 2023b).

Measured groundwater elevations ranged from approximately 2072.5 feet near the former Airport Kwik Stop property, to approximately 2069 to the east-southeast toward the Pend Oreille River. The calculated groundwater gradient was approximately 0.003 feet per foot to the southeast, consistent with previous groundwater data from the site. Groundwater elevation contours are shown for each monitoring event (September and November) in Figures 3 and 4. Groundwater elevations and well headspace measurements are included in Table 1. Petroleum non-aqueous phase liquid (product) was not observed in any of the monitoring wells.

A groundwater sample and duplicate sample were collected from MW-8 on September 12, 2023. Groundwater samples were collected from monitoring wells MW-3, MW-9, MW-10, MW-11, MW-15 and MW-18 on September 15, 2023. On November 29 and 30, 2023, a second round of groundwater samples were collected from monitoring wells MW-3, MW-9, MW-10, MW-11, MW-15, and MW-18, with one duplicate at MW-8. Groundwater quality parameters at the time of sample collection are summarized in Table III below.



TABLE III. GROUNDWATER FIELD PARAMETERS

			F	ield Measured \	Water Qu	ality Parame	ters	
Well ID	Sample Date	Depth to Groundwater (feet bgs)	pH (pH units)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Temperature (°C)
MW-3	09/15/23	37.61	6.97	872	15.6	0.59	6.34	10.4
	11/30/23	37.86	7.34	804	-70.6	0.43	27.51	8.8
MW-8	09/12/23	36.84	6.98	1,052	44.9	0.42	7.10	10.6
	11/30/23	37.08	7.19	1,476	-39.1	0.10	5.63	8.6
MW-9	09/15/23	37.40	7.30	554	100.9	5.42	15.00	9.3
	11/30/23	37.68	7.68	515	175.0	4.68	6.00	8.2
MW-10	09/15/23	15.90	7.31	518	124.5	4.89	2.54	12.0
	11/29/23	16.06	7.70	510	100.8	5.11	3.00	9.2
MW-11	09/15/23	22.30	7.28	508	129.7	2.10	3.42	10.8
	11/29/23	22.53	7.67	580	183.1	2.11	4.68	7.6
MW-14	09/15/23	31.96			No	t Sampled		
	11/29/23	32.19						
MW-15	09/15/23	42.00	7.32	527	135.9	3.42	10.78	15.1
	11/29/23	42.21	6.00	488.8	167.1	3.28	12.77	8.1
MW-16	09/15/23	16.10			No	t Sampled		
	11/29/23	16.25						
MW-17	09/15/23	37.35			No	t Sampled		
	11/29/23	37.59						
MW-18	09/15/23	21.73	7.44	395.5	112.3	9.68	2.94	10.30
	11/29/23	22.09	7.80	367.2	139.1	8.85	3.51	8.7

Notes:

 $ORP = oxygen \ reduction \ potential; \ \mu S/cm = micro-Siemens \ per \ centimeter; \ mV = millivolts; \ mg/L = milligrams \ per \ liter;$

NTU = nephelometric turbidity unit; C = Celsius

3.4. Investigation-Derived Waste

Investigation-derived waste (IDW), including soil cuttings, purge water, and decontamination fluids from assessment activities were placed in thirteen 55-gallon drums and stored in the garage building west of the former service station (Figure 2) pending waste profiling and off-site disposal.

4.0 CHEMICAL ANALYTICAL RESULTS

The following sections describe soil and groundwater chemical analytical results. Laboratory reports and data validation reports are included in Appendix B.



4.1. Soil Chemical Analytical Results

Twenty soil samples (four per boring) and one duplicate sample were submitted to Eurofins Environment Testing (Eurofins) in Spokane Valley, Washington for analysis of the following contaminants of concern (COCs):

- GRPH using Northwest Method NWTPH-Gx; and
- Benzene, toluene, ethylbenzene, xylenes and naphthalene (BTEXN) using United States Environmental Protection Agency (EPA) Method 8260D.

Four samples including B-8 (40 - 41.5), B-9 (40 - 41.5), B-11 (5 - 6.5) and B-12 (5 - 6.5) were also analyzed for the following natural background parameters to assist with the development of potential treatment alternatives for the site:

- Calcium, iron, magnesium, manganese, potassium and sodium using EPA Method 6010D; and
- Total organic carbon (TOC) using EPA Method 9060.

Soil chemical analytical results are presented and compared to the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels for unrestricted land use in Table 2, and are summarized below:

- GRPH was detected at concentrations greater than the MTCA Method A cleanup level (100 milligrams per kilogram [mg/kg] when benzene is not present in soil) in samples B-8 (37.5 39 & 40 41.5), B-11 (5 6.5 & 32.5 34) and B-12 (5 6.5 & 37.5 39).
- GRPH was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.
- Benzene was not detected in the soil samples analyzed.
- Toluene and ethylbenzene were either not detected or were detected at concentrations less than their respective MTCA Method A cleanup levels in the samples analyzed.
- Total xylenes were detected at a concentration (110 mg/kg) greater than the MTCA Method A cleanup level (9 mg/kg) in one sample, B-11 (5 6.5). Total xylenes were either not detected or were detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.
- Naphthalene was detected at a concentration (12 mg/kg) greater than the MTCA Method A cleanup level (5 mg/kg) in one sample, B-11 (5 6.5). Naphthalene was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the other soil samples analyzed.

4.2. Groundwater Chemical Analytical Results

Seven groundwater samples and one duplicate were submitted on September 18, 2023, and again on November 30, 2023, to Eurofins for analysis of GRPH and BTEXN using the methods described above. The samples from MW-3, MW-8, MW-9 and MW-18 were also analyzed for the following background parameters to assist with the development of potential treatment alternatives for the site:

- Total and dissolved iron and manganese using EPA Method 200.8;
- TOC using Standard Method (SM) 5310C;
- Alkalinity using SM 2320B;



- Methane using RSK-175; and
- Nitrate and sulfate using EPA Method 300.0.

Groundwater chemical analytical results are presented and compared to MTCA Method A cleanup levels in Table 3. and are summarized below:

- GRPH was detected at a concentration equal to or exceeding the MTCA Method A CUL (800 micrograms per liter [µg/L]) in monitoring wells MW-3 and MW-8 during the September monitoring event. Note that the laboratory method blank for the September event had detectable GRPH. GRPH was either not detected or was detected at concentrations less than the MTCA Method A cleanup level in the remaining groundwater samples analyzed.
- Benzene, toluene, ethylbenzene, xylenes and naphthalene were either not detected or detected at concentrations less than their respective MTCA Method A cleanup levels in the samples analyzed.

5.0 SUMMARY AND RECOMMENDATIONS

Five soil borings (B-8 through B-12) were advanced surrounding and beneath the former fuel island at the former Airport Kwik Stop property where gasoline UST dispenser release(s) contaminated soil and groundwater. Soil samples were collected from each boring and submitted for chemical analysis of site COCs and additional soil quality parameters. Seven existing monitoring wells (MW-3, MW-8, MW-9, MW-10, MW-11, MW-15 and MW-18) were sampled in September and November. Groundwater samples were submitted for chemical of site COCs and additional groundwater quality parameters. Depth to water measurements were collected from the monitoring wells sampled and three additional wells (MW-14, MW-16 and MW-17). This soil and groundwater data was collected to evaluate the current nature and extent of contamination at the site and to assist with design of the planned remedial action.

5.1. Shallow Soil Contamination

Gasoline-related contamination in soil is present near the ground surface and within the smear zone surrounding the soil/groundwater interface based on the chemical analytical results. The most contaminated soil was observed close to the northernmost fuel island near the ground surface in boring B-11 where GRPH and the volatiles total xylenes and naphthalene exceeded MTCA Method A CULs in the sample collected from 5 to 6.5 feet bgs (2,200 mg/kg GRPH). Smear zone contamination is associated with contaminated groundwater and is discussed below. Between the near surface contamination and the smear zone, GRPH concentrations were detected at concentrations less than the MTCA Method A CUL in borings B-11 and B-12 between 17.5 and 21 feet bgs and were not detectable in the remaining soil samples collected from this zone.

5.2. Groundwater and Smear Zone Contamination

Gasoline-related groundwater contamination was identified just east of the former fuel islands on the Airport Kwik Stop property in monitoring well MW-8, and at the east-adjacent Vacant Property across Highway 31 in monitoring well MW-3 which is approximately 200 feet downgradient. GRPH in these wells slightly exceeded the MTCA Method A CUL in September (1,000 μ g/L in MW-3 and 1,700 μ g/L in MW-8) but were below the CUL in November. GRPH was detected at concentrations below the MTCA Method A CUL at wells further downgradient including MW-9, MW-10 and MW-11, and was not detected in cross-gradient



wells MW-15 and MW-18. These results are consistent with groundwater data collected at the site by Ecology (Ecology 2022).

Note that groundwater was not sampled on the downgradient former Cabin Grill property where GRPH-contamination has historically been present in multiple wells including MW-5. During the last monitoring event conducted in MW-5 in August 2021, the GRPH concentration was 4,160 μ g/L GRPH, compared to 8,600 μ g/L in MW-8 on the former Airport Kwik Stop property. We understand that the Cabin Grill property owner has not granted access for sampling since August 2021. GRPH-contaminated groundwater is likely still present beneath the former Cabin Grill property based on the 2021 data from wells MW-5 and MW-8 and the 2023 data from MW-8.

Gasoline-related contamination in soil within the smear zone is an order of magnitude lower (approximately 110 to 150 mg/kg) than the observed shallow soil contamination. Smear zone contamination was observed in borings B-8, B-11 and B-12, closest to the fuel islands at depths between approximately 32.5 and 39 feet bgs.

5.3. Recommendations

Shallow soil contamination is present under the canopy and former fuel dispenser islands near B-11 and B-12 above 10 feet bgs. Some of this soil is accessible for a limited remedial excavation without shoring. Assuming a 3-to-5-foot setback from the east face of the former store building and a 1.5 to 1 excavation slope, excavation could reach most contaminated soil above 5 feet bgs and some limited soil below that depth by potholing at the base of the excavation. Alternatively, most of the shallow contamination could be removed using a driven shoring system along the east face of the building which would allow for excavation to approximately 10 feet bgs and more soil access near the building. This scenario would likely only leave contamination directly adjacent to and underneath the building in place.

A proposed excavation area is shown in Figure 5 (approximately 23 by 36 feet), which equates to approximately 307 cubic yards (CY), assuming the contamination extends to 10 feet bgs. Cross-sectional views showing the vertical extent of contamination are shown in Figures 6 and 7.

Contaminated soil below approximately 10 feet bgs and below the footprint of the building which is inaccessible for excavation without additional shoring and/or building removal may be addressed in-situ using injections of remedial agents including but not limited to chemical oxidants and/or biological amendments. In-situ treatment of vadose zone soil would likely require multiple rounds of injection to saturate the soil and allow for adequate contact time. Smear zone contamination should be considered a part of groundwater treatment, as described below.

5.3.1. Groundwater and Smear Zone Remediation

The groundwater contamination at the site will continue to naturally attenuate, particularly after the source of the contamination in overlying soil is removed. However, in-situ injections of remedial agents including but not limited to activated carbon, chemical oxidants and/or biological amendments on the Airport Kwik Stop property will help speed up the natural attenuation process near the source, particularly where a significant smear zone was observed which will not be accessible via excavation. Directly treating contaminated soil in the smear zone and groundwater is likely necessary to achieve cleanup goals within a reasonable timeframe.



6.0 LIMITATIONS

We have prepared this report for the exclusive use of Washington State Department of Ecology and their authorized agents.

Within the limitations of scope, schedule and budget, our services were executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix C, Report Limitations and Guidelines for Use, for additional information pertaining to this report.

7.0 REFERENCES

- GeoEngineers, Inc. (GeoEngineers) 2017. "In-Situ Remediation Plan, Airport Kwik Stop and Cabin Grill Site, Ione, Washington." May 10, 2017. File No. 0504-058-06.
- GeoEngineers. 2023a. "Amendment No. 1, Environmental and Geotechnical Engineering Services, Airport Kwik Stop Soil and Groundwater Cleanup, Ione, Washington." May 12, 2023. File No. 0504-058-07.
- GeoEngineers 2023b. "Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup, Data Gap Assessment, Ione, Washington." September 8, 2023. File No. 0504-058-07.
- Washington State Department of Ecology (Ecology) 2022. "Environmental Assessment Program, Quarterly Report, Airport Kwik Stop." October 26, 2022.
- Washington Department of Ecology. 2013. "Model Toxics Control Act Regulation and Statute, Chapter 173-340 WAC and 70.105D RCW." Revised 2013, Publication 94-06.





Table 1

Summary of Groundwater Level Measurements¹

Airport Kwik Stop Ione, Washington

Monitoring Well ID	Date Measured	Top of Casing Elevation (feet) ²	Depth to Water (feet bTOC)	Groundwater Elevation (feet) ²
MW-3	9/12/23	2,110.17	37.61	2,072.56
IVIVV-5	11/29/23	2,110.11	37.86	2,072.31
MW-8	9/12/23	2,109.65	36.84	2,072.81
IVIVV-O	11/29/23	2,109.65	37.08	2,072.57
MW-9	9/12/23	2.109.43	37.40	2,072.03
IVIVV-9	11/29/23	2,109.43	37.68	2,071.75
MW-10	9/12/23	2,086.42	15.90	2,070.52
IVIVV-10	11/29/23	2,000.42	16.06	2,070.36
MW-11	9/12/23	2.093.44	22.30	2,071.14
14144-77	11/29/23	2,093.44	22.53	2,070.91
MW-14	9/12/23	2,103.16	31.96	2,071.20
10100-14	11/29/23	2,103.10	32.19	2,070.97
MW-15	9/12/23	2,112.90	42.00	2,070.90
10100-123	11/29/23	2,112.90	42.21	2,070.69
MW-16	9/12/23	2,085.20	16.10	2,069.10
IVIVV-10	11/29/23	2,065.20	16.25	2,068.95
MW-17	9/12/23	2,109.74	37.35	2,072.39
IVIVV-1/	11/29/23	2,109.74	37.59	2,072.15
MW-18	9/12/23	2,093.57	21.73	2,071.84
10100-79	11/29/23	2,093.57	22.09	2,071.48

Notes:

 $^{^{1}\}mbox{Monitoring well locations}$ are shown on Figures 3 and 4.

² Elevations are referenced to NAVD88. Top of casing elevation survey performed by Thomas, Dean & Hoskins, Inc. (TD&H). NAVD88 = North American Vertical Datum of 1988

Table 2

Chemical Analytical Results - Soil¹ Airport Kwik Stop Ione, Washington

				Vola	tile Organic Co (mg/kg)			Petroleum Hydrocarbons ³ (mg/kg)	Metals ⁴ (mg/kg)			Organic Carbon ⁵ (mg/kg)			
Boring ID	Sample Depth (feet bgs)	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Gasoline-range (GRPH)	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Total Organic Carbon
	12.5 to 14	9/13/2023	0.026 U	0.034 U	0.041 U	0.07 U	0.072 U	4.6 U	-	-	-	-		-	
B-8	25 to 26.5	9/13/2023	0.024 U	0.032 U	0.039 U	0.12 U	0.068 U	4.4 U	-	-	-	-	-	-	
	37.5 to 39	9/13/2023	0.021 U	0.028 U	0.035 U	0.11 U	0.11 J	650	-	-					-
	40 to 41.5	9/13/2023	0.017 U	0.057 J	0.027 U	0.086 U	0.047 U	110	15,000	7,900	7,800	170	520	92 J	5,200
	12.5 to 14	9/13/2023	0.024 U	0.032 U	0.040 U	0.13 U	0.068 U	4.4 U		-	-		-	-	
B-9	27.5 to 29	9/13/2023	0.022 U	0.030 U	0.036 U	0.12 U	0.063 U	4.0 U	-	-	-	-	-	-	-
	37.5 to 39	9/13/2023	0.021 UJ	0.029 UJ	0.035 UJ	0.11 UJ	0.060 UJ	34 J					-		-
	40 to 41.5	9/13/2023	0.023 UJ	0.28 J	0.038 UJ	0.12 UJ	0.065 UJ	11 J	13,000	9,700	7,600	140	540	91 J	3,100
	10 to 11.5	9/14/2023	0.028 U	0.037 U	0.045 U	0.15 U	0.079 U	5.1 U	-	-	-	-		-	
B-10	25 to 26.5	9/14/2023	0.025 U	0.034 U	0.041 U	0.13 U	0.071 U	4.6 U	-	-	-	_	_	-	-
5 10	32.5 to 34	9/14/2023	0.0095 U	0.013 U	0.015 U	0.049 U	0.027 U	1.7 U	-	_	_	-	-	-	
	40 to 41.5	9/14/2023	0.017 U	0.023 U	0.028 U	0.089 U	0.048 U	3.1 U	-	-	_	_	-	1	
	5 to 6.5	9/14/2023	0.020 U	0.31	0.31	109	12	2,200	3,200	21,000	4,500	410	2,000	150	1,300 J
B-11	20 to 21.5	9/14/2023	0.025 U	0.033 U	0.040 U	0.13 U	0.36 J	51		-			-	-	-
P-11	32.5 to 34	9/14/2023	0.021 U	0.027 U	0.033 U	3.8	0.62	120	-	-			-	-	-
	40 to 41.5	9/14/2023	0.023 U	0.039 J	0.037 U	0.12 U	0.064 U	5.1 J					-		-
	5 to 6.5	9/14/2023	0.021 U	0.073 J	0.034 U	0.11 U	0.19 J	400	3,400	21,000	4,500	390	2,000	160	1,500
B-12	17.5 to 19	9/14/2023	0.026 U	0.034 U	0.042 U	0.13 U	0.072 U	13							-
D-12	37.5 to 39	9/14/2023	0.021 U	0.055 J	0.034 U	0.11 U	0.11 J	150						-	-
	40 to 41.5	9/14/2023	0.026 U	0.29	0.042 U	0.13 U	0.072 U	7.8 J				-	-	-	-
	MTCA I	Method A CUL ⁶	0.03	7	6	9	5	30/100 ⁷	NE	NE	NE	NE	NE	NE	NE

Notes:

mg/kg = milligrams per kilogram

NE = not established

-- = not analyzed

U = analyte was not detected above the laboratory method detection limit (MDL)

J = estimated concentration

Bold indicates analyte was detected.

Bold with gray shading indicates the analyte was detected at a concentration greater than the MTCA Method A cleanup level.



¹ Samples analyzed by Eurofins Environment Testing Northwest located in Spokane Valley, Washington. Sample Locations are shown on Figure 2.

² Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

 $^{^{\}rm 3}\,\text{Gasoline-range}$ petroleum hydrocarbons analyzed using Northwest Method NWTPH-Gx.

⁴ Metals analyzed using EPA Method 6010D.

⁵ Total organic carbon analyzed using EPA Method 9060A.

⁶ Washington State Model Toxics Control Act (MTCA) Method A cleanup level (CUL) for unrestricted land use.

⁷ When benzene is present, the gasoline range cleanup level is 30 mg/kg. When benzene is not present the gasoline range cleanup level is 100 mg/kg. bgs = below ground surface

Table 3

Chemical Analytical Results - Groundwater¹ Airport Kwik Stop Ione, Washington

				Vo	latile Organic Co (μg/L)	empounds ²		Petroleum Hydrocarbons ³ (µg/L)	Dissolved Gases ⁴ (µg/L)	_	Anions ⁵ (μg/L)		Metals ⁶ g/L)		d Metals ^{6,7} g/L)	Alkalinity ⁸ (μg/L)	Organic Carbon ⁹ (µg/L)
Monitoring Well ID	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	GRPH	Methane	Nitrate	Sulfate	Iron	Manganese	Iron	Manganese	Alkalinity	Total Organic Carbon
MW-3	MW-3:091523	9/15/2023	0.093 U	0.31 U	1.90	4.0	3.6	1,000	0.63 U	57 UJ	13,000	7,100	1,200	91 J	890	160,000	5,000
	MW-3:113023	11/30/2023	0.093 U	0.31 U	1.90	5.1	3.6	540	0.63	320	14,000	7,700	690	85	700	290,000	2,700
MW-8	MW-8:091223	9/12/2023	0.093 U	0.32 J	0.20 U	0.44 U	0.94 U	1,700	0.63 U	2,300 J	150,000	880	620	77 J	460	340,000	4,500
MIN O	MW-8:113023	11/30/2023	0.670	0.31 U	0.48	1.8	0.8 J	380 J	3.1 J	1 ,700 J	430,000 J	1,800 J	1,200 J	85	1,600 J	420,000	3,400
MW-9	MW-9:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	48 U	0.63 U	4,700 J	18,000	300	350	65 J	0.70 J	170,000	2,100
IVIVV-5	MW-9:113023	11/30/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	0.63 U	4,100	14,000	110	80	67 U	2.30	210,000	350
MW-10	MW-10:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	47 U	-	-	-	-	-	-	-		
IVIVV-10	MW-10:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	-	-	-	-	-	-	=		
MW-11	MW-11:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	46 U	-	-	-	-	-	-	-		
IVI VV-11	MW-11:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	-	-	-	-	-	-	-	-	
MW-15	MW-15:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	31 U	-	-	-	-	-	-	-		
IVIWV-15	MW-15:112923	11/29/2023	0.093 U	0.31 U	0.20 U	0.28 U	0.63 U	54 U	-	-	-	-	=	-	=	-	
MW-18	MW-18:091523	9/15/2023	0.093 U	0.31 U	0.20 U	0.44 U	0.63 U	31 U	0.63 U	560 J	3800	58 J	1.3 J	49 J	0.46 U	160,000	1600
INI NA-TQ	MW-18:112923	11/29/2023	0.093 U	0.31	0.20 U	0.28 U	0.63 U	54 U	-	-	-	-	-	-	-	-	-
ı	MTCA Method A CL	JL ¹⁰	5	1,000	700	1,000	160	800/1,000 ¹¹	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes:

Bold indicates analyte was detected.

Bold with gray shading indicates the analyte was detected at concentrations greater than the MTCA Method A cleanup level.



¹ Samples analyzed by Eurofins Environment Testing Northwest (Eurofins) located in Spokane Valley, Washington. Sample Locations are Shown on Figures 3 and 4.

 $^{^2}$ Volatile organic compounds analyzed using United States Environmental Protection Agency (EPA) Method 8260D.

³ Gasoline-range petroleum hydrocarbons (GRPH) analyzed using Northwest Method NWTPH-Gx.

 $^{^4\,\}mathrm{Dissolved}$ Gases including methane analyzed using RSK-175.

⁵ Anions including nitrate and sulfate analyzed using EPA Method 300.0.

⁶ Total and Dissolved Metals analyzed using EPA Method 200.8.

⁷ Dissolved metals were lab-filtered.

⁸ Alkalinity analyzed using Standard Method (SM) 2320B.

⁹ Total organic carbon (TOC) analyzed using SM 5310C.

¹⁰ Washington State Model Toxics Control Act (MTCA) cleanup level (CUL).

¹¹ When benzene is present, the gasoline range cleanup level is 800 μg/L. When benzene is not present the gasoline range cleanup level is 1,000 μg/L.

NE = not established

^{- =} not analyzed

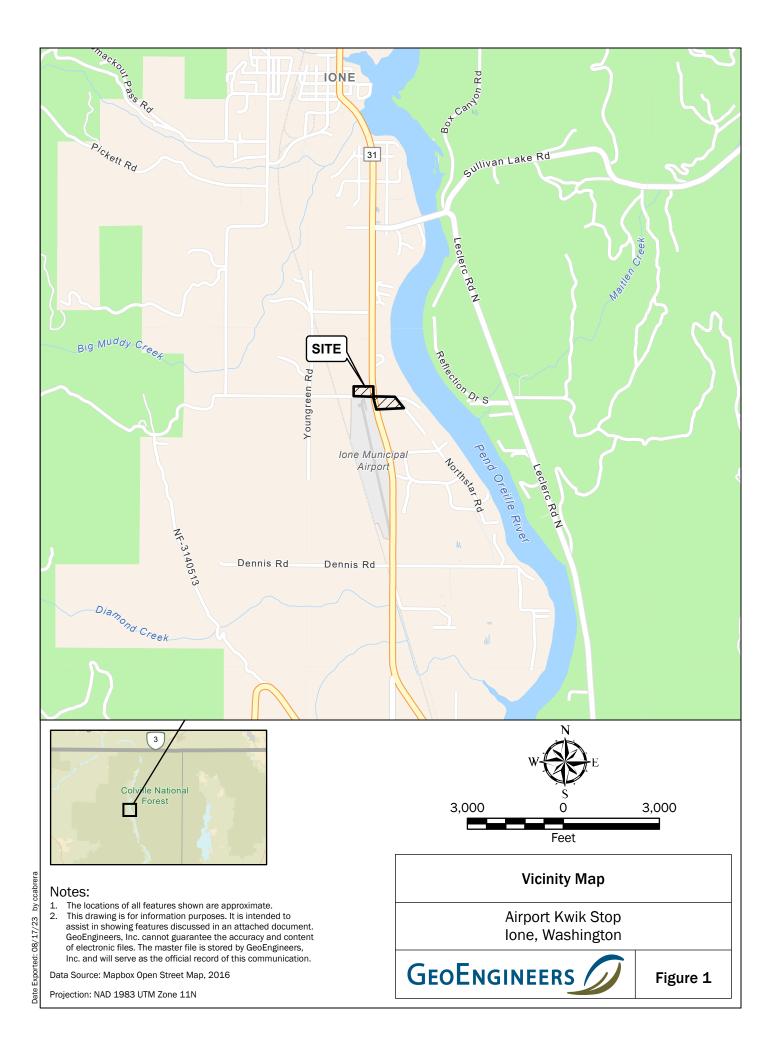
μg/L = microgram per liter

U = analyte was not detected above the laboratory method detection limit (MDL)

J = estimated concentration

B = analyte detected in laboratory method blank and the sample







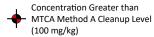
Source(s):

Pend Oreille County GIS

Bing Imagery

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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Concentration Detected Less than MTCA Method A Cleanup Level (100 mg/kg)

Approximate Location of Former Direct-Push Boring

Approximate Location of Former 2" Monitoring Point SVE-1

Approximate Location of
Former 4" SVE Extraction Well
Approximate Location of

Former Air Sparge Pilot Well

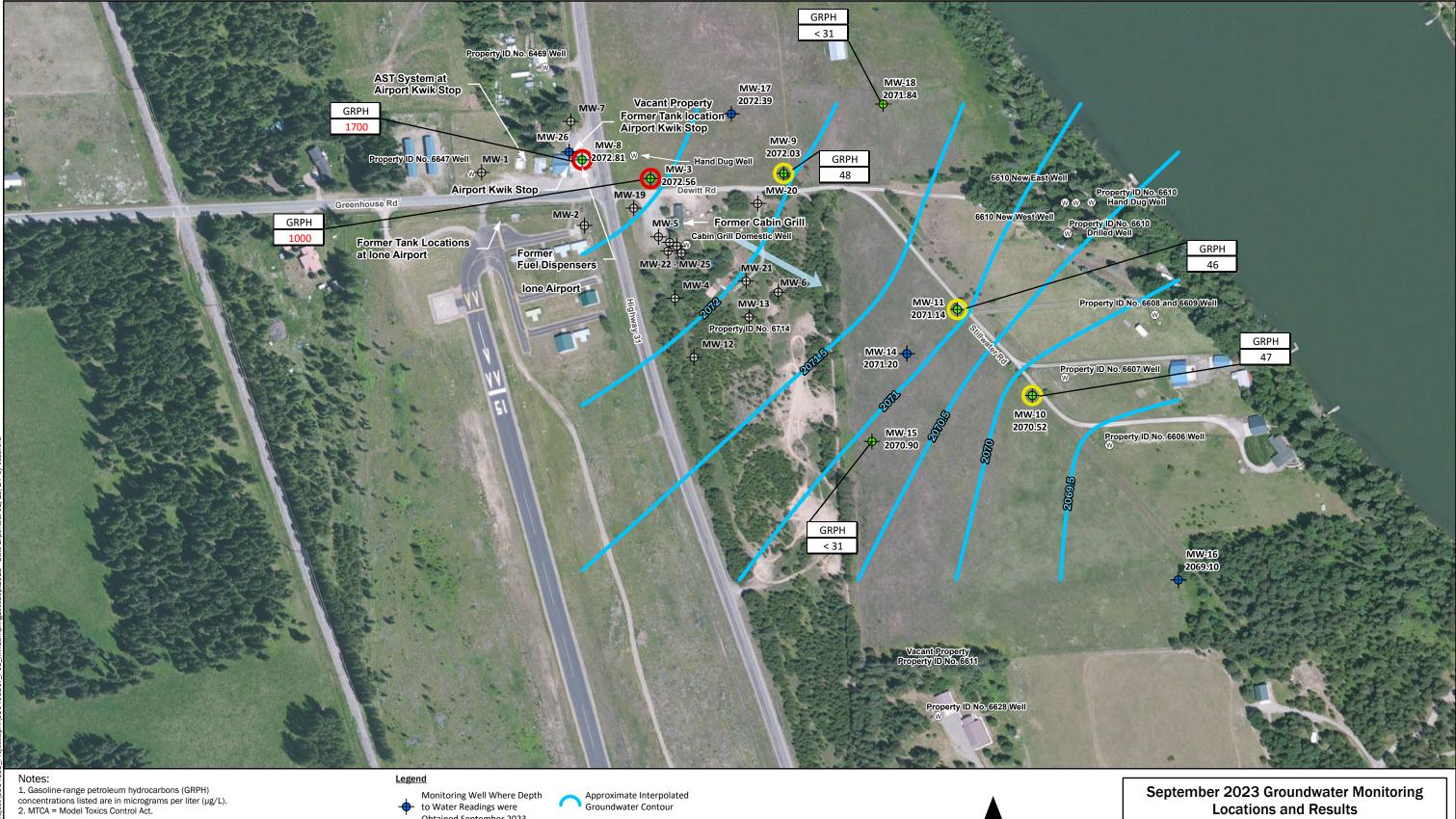
Approximate Fuel Dispenser Island Location

on Well Property Boundary
Approximate Parcel Boundary



Airport Kwik Stop Ione, Washington





Bing Imagery

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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Obtained September 2023

Monitoring Well Sampled in September 2023

Existing Monitoring Well

Approximate Location of **Existing Water Well**

Interpreted Groundwater Flow Direction

Contaminant Concentrations Greater than MTCA Method A Cleanup Levels

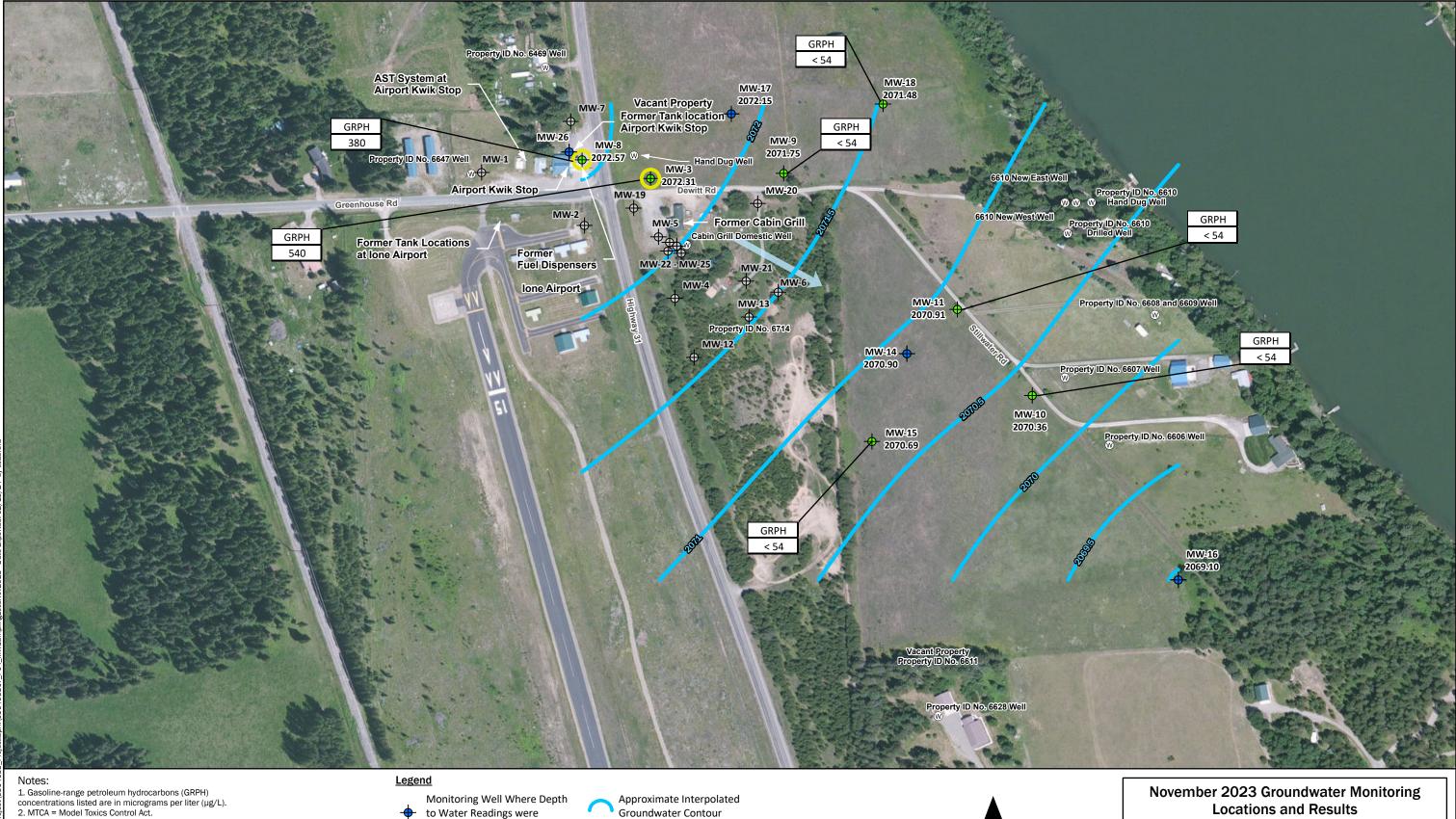
Concentration GRPH Detected Less than MTCA Method A Cleanup Level (800 µg/L)



Feet

Airport Kwik Stop Ione, Washington



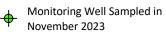


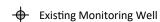
· Bing Imagery

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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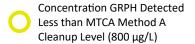
Obtained in November 2023

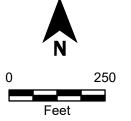




Approximate Location of **Existing Water Well**

Interpreted Groundwater Flow Direction





Airport Kwik Stop Ione, Washington





- 3. UST = underground storage tank 4. MTCA = model toxics control act
- 5. bgs = below ground surface.

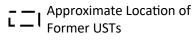
Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

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B-8 Soil Boring

GRPH concentration in soil greater than the MTCA Method

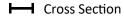
A Cleanup Level (100 mg/kg) between approximately 0 and 10 feet bgs

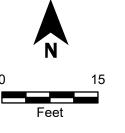


Approximate Fuel Dispenser Island Location



Proposed Excavation Area

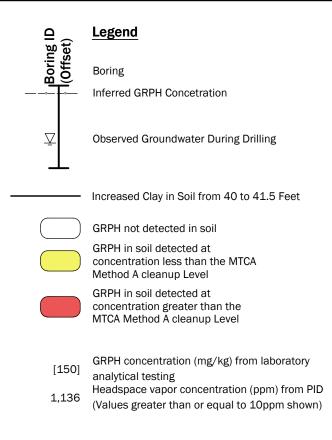




Proposed Shallow Excavation Area

Airport Kwik Stop Ione, Washington



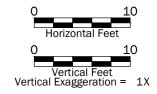


Note(s):

 The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.

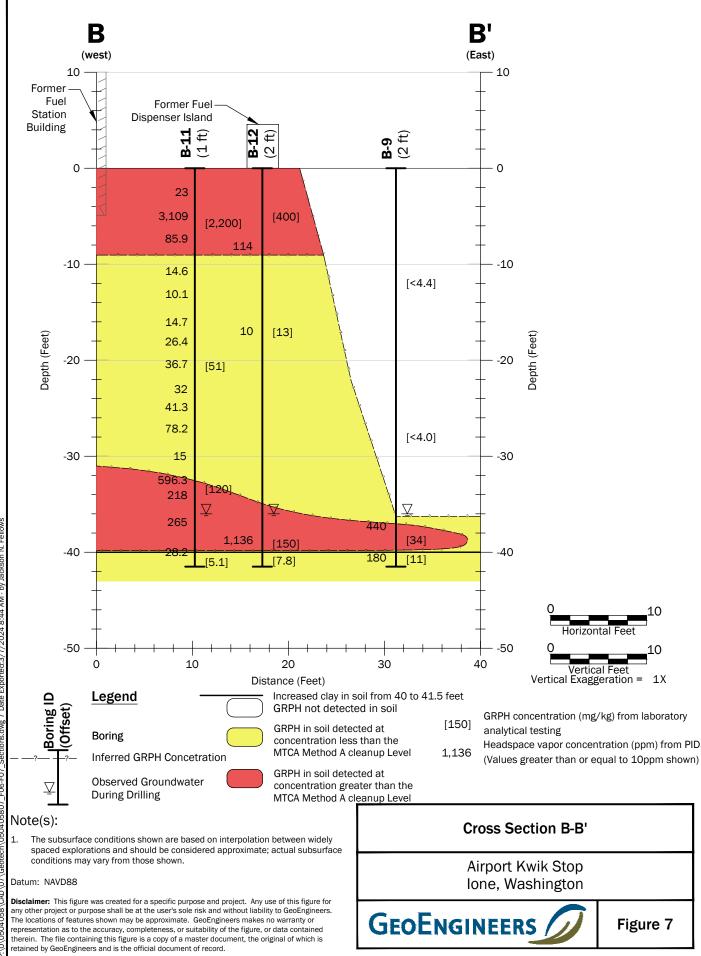
Datum: NAVD88

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Cross Section A-A' Airport Kwik Stop Ione, Washington GEOENGINEERS Figure 6

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APPENDIX A Boring Logs

SOIL CLASSIFICATION CHART

	MAJOR DIVIS	IONS	SYM	BOLS	TYPICAL
I'	MAJOR DIVIS	10143	GRAPH	LETTER	DESCRIPTIONS
	GRAVEL	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	AND GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
30123	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50%	SAND	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS
RETAINED ON NO. 200 SIEVE	AND SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
	HIGHLY ORGANIC S	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

2.4-inch I.D. split barrel / Dames & Moore (D&M)

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

ADDITIONAL MATERIAL SYMBOLS

SYM	BOLS	TYPICAL						
GRAPH	LETTER	DESCRIPTIONS						
	AC	Asphalt Concrete						
	cc	Cement Concrete						
13	CR	Crushed Rock/ Quarry Spalls						
7 71 71 71 71 71	SOD	Sod/Forest Duff						
	TS	Topsoil						

Groundwater Contact

Ī

Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

____ Contact between soil of the same geologic

Laboratory / Field Tests

%F Percent fines %G Percent gravel AL Atterberg limits CA Chemical analysis

CP Laboratory compaction test
CS Consolidation test

CS Consolidation test
DD Dry density
DS Direct shear
HA Hydrometer analysis
MC Moisture content

MD Moisture content and dry density

Mohs Mohs hardness scale OC Organic content

PM Permeability or hydraulic conductivity
Pl Plasticity index

PL Point load test
PP Pocket penetrometer
SA Sieve analysis
TX Triaxial compression

UC Unconfined compression

UU Unconsolidated undrained triaxial compression

VS Vane shear

Sheen Classification

NS No Visible Sheen SS Slight Sheen MS Moderate Sheen HS Heavy Sheen

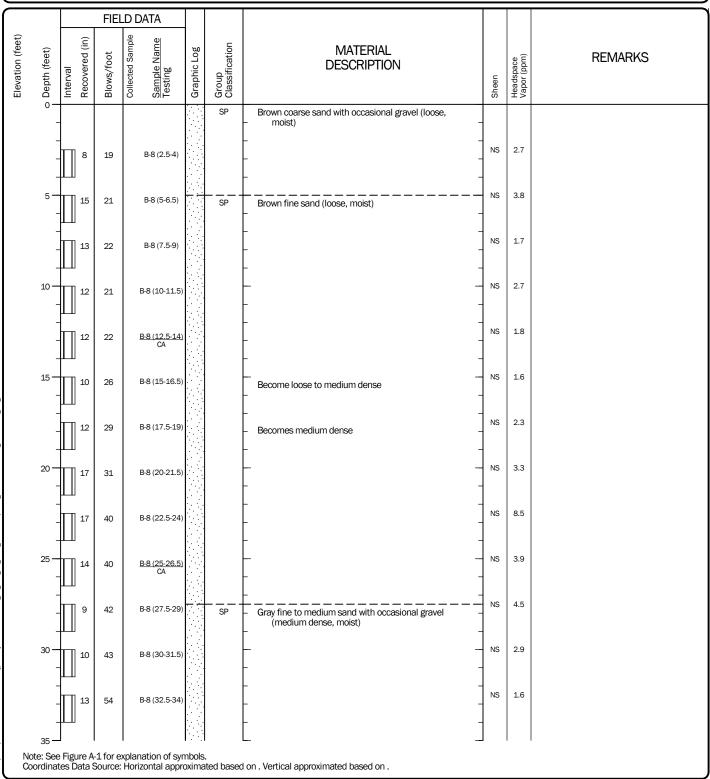
NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

Key to Exploration Logs



Figure A-1

Drilled	<u>Start</u> 9/13/2023	<u>End</u> 9/13/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller Cascade Drilling		Drilling Method Hollow-stem Auger
Surface Vertical	Elevation (ft) Undetermined Datum Hammer Data 140 (lbs) / 30 (in) Drop				Drilling SCME-55 Equipment				
	Easting (X) Northing (Y)				System Datum			Groundwat	er not measured at time of exploration
Notes:									



Log of Boring B-8



Project: Airport Kwik Stop

			FIEL	_D DATA						
Elevation (feet)		Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	35 —	10	56	B-8 (35-36.5)				NS	1017	
		₩								
	-	4	36	<u>B-8 (37.5-39)</u> CA		SP	Gray coarse sand (medium dense, wet)	SS	1565	Petroleum odor
	40 —	10	43	B-8 (40-41.5) CA			Trace clay	NS	<1	Petroleum odor
	•							•	•	

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Log of Boring B-8 (continued)

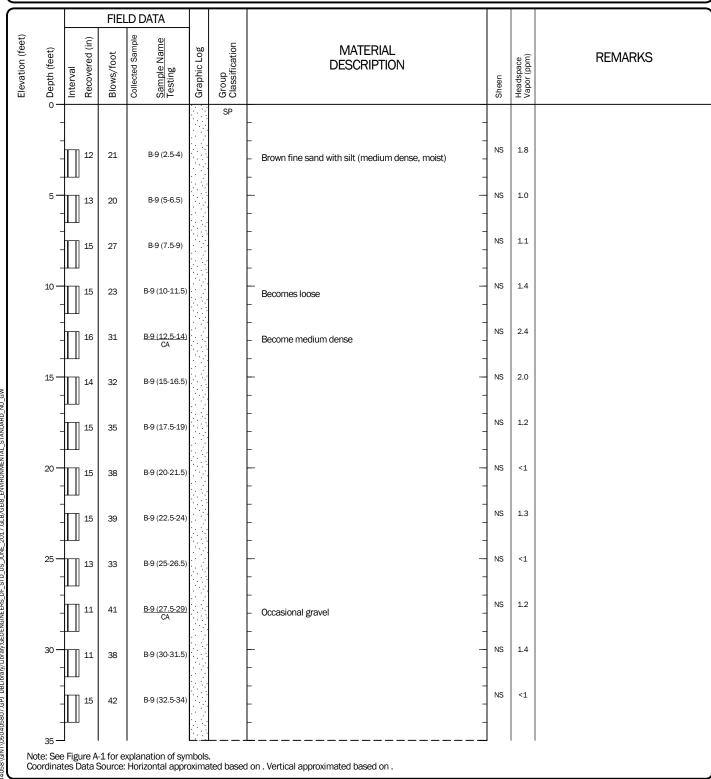


Project: Airport Kwik Stop

Project Location: Ione, Washington Project Number: 0504-058-07

Figure A-2 Sheet 2 of 2

Drilled	<u>Start</u> 9/13/2023	<u>End</u> 9/13/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller Cascade Drilling		Drilling Method Hollow-stem Auger
Surface Vertical	Elevation (ft) Datum	Undet	ermined		Hammer Data	140	0 (lbs) / 30 (in) Drop	Drilling Equipment	SCME-55
	Easting (X) Northing (Y)				System Datum			Groundwate	er not measured at time of exploration
Notes:									



Log of Boring B-9



Project: Airport Kwik Stop

Project Location: Ione, Washington
Project Number: 0504-058-07

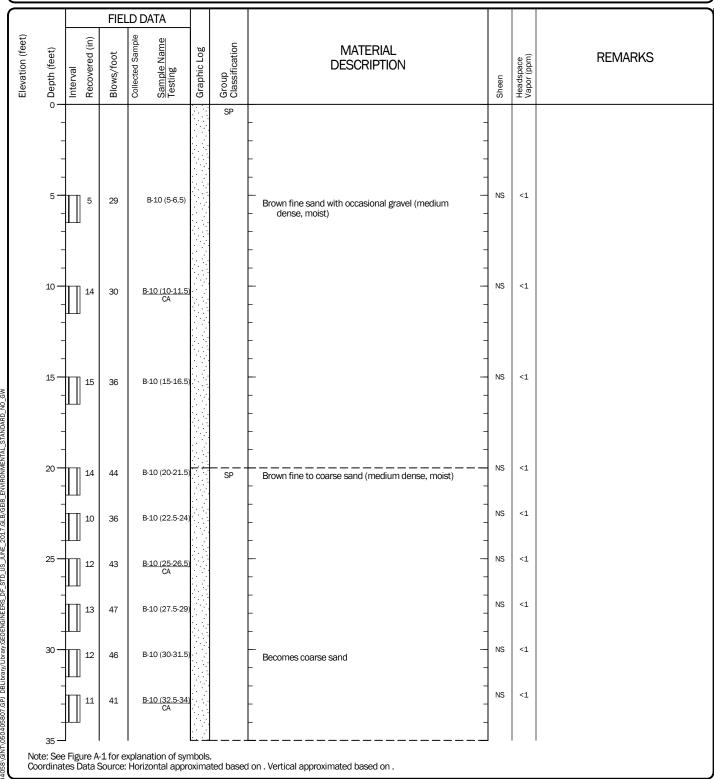
Figure A-3 Sheet 1 of 2

[FIEI	LD DATA						
Elevation (feet)	ት Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Graphic Log	Group Classification	MATERIAL DESCRIPTION		Headspace Vapor (ppm)	REMARKS
	35 -	15	49	B-9 (35-36.5)		SP	Brown coarse sand with occasional gravel (medium dense)	NS	1.0	
	-	14	36	<u>B-9 (37.5-39)</u> CA			Becomes wet -	NS	440	Petroleum odor
	40 —	13	27	B-9 (40-41.5) CA			Trace clay	- NS	180	Petroleum odor

Project: Airport Kwik Stop

Log of Boring B-9 (continued)

Drilled	<u>Start</u> 9/14/2023	<u>End</u> 9/14/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller Cascade Drilling		Drilling Method Hollow-stem Auger
Surface Vertical	Elevation (ft) Datum	Undet	ermined		Hammer Data	140	0 (lbs) / 30 (in) Drop	Drilling Equipment	SCME-55
	Easting (X) Northing (Y)				System Datum			Groundwate	er not measured at time of exploration
Notes:									



Log of Boring B-10



Project: Airport Kwik Stop

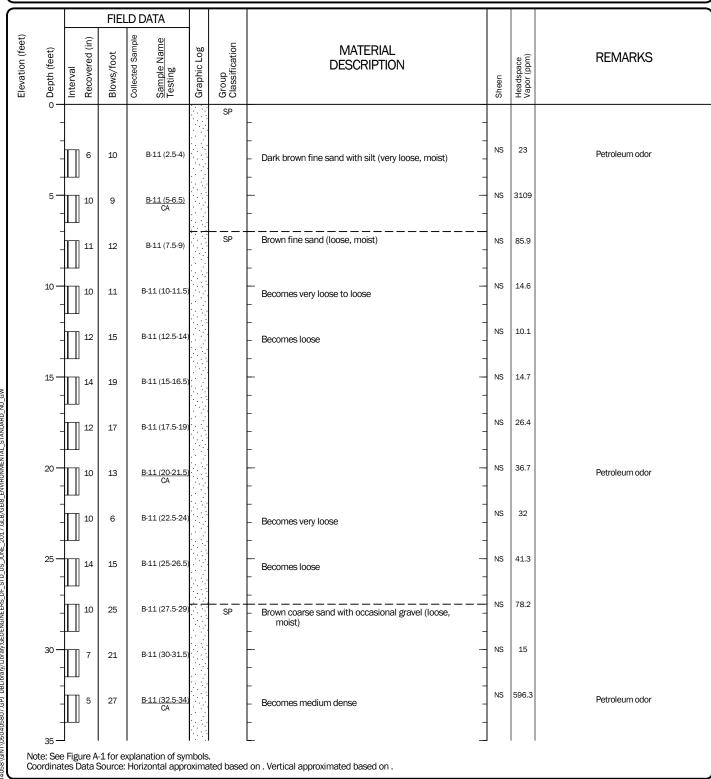
			FIE	LD DAT							
Elevation (feet)	쎯 Depth (feet) I	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	35 - -	8	43		(35-37.5)		SP	Brown coarse sand with gravel (medium dense, moist)	NS -	<1	
	-	9	37	B-10	(37.5-39)		SP	Brown coarse sand (medium dense, wet)	- NS -	<1	
	40 —	10	44	<u>B-10</u>	(40-41.5) CA			With trace clay and occasional gravel (medium dense, wet)	- NS	<1	

Log of Boring B-10 (continued)



Project: Airport Kwik Stop

Drilled	<u>Start</u> 9/14/2023	<u>End</u> 9/14/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller Cascade Drilling		Drilling Method Hollow-stem Auger
Surface Vertical	Elevation (ft) Datum	Undet	ermined		Hammer Data	140	0 (lbs) / 30 (in) Drop	Drilling Equipment	SCME-55
	Easting (X) Northing (Y)				System Datum			Groundwate	er not measured at time of exploration
Notes:									



Log of Boring B-11



Project: Airport Kwik Stop

Project Location: Ione, Washington
Project Number: 0504-058-07

Figure A-5 Sheet 1 of 2

		FIEL	D D	ATA						
Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log	Group Classification	MATERIAL DESCRIPTION		Headspace Vapor (ppm)	REMARKS
	8	16	B-				Becomes loose	NS	218	
	11	35	В-:	11 (37.5-39)			Becomes medium dense, wet -			
	10	18	<u>B-</u>	11 (40-41.5) CA			Trace clay (loose, wet)	- NS	28.2	
		8 - 11 11	8 16	8 16 B	8 16 B-11 (35-36.5) - 11 35 B-11 (37.5-39)	8 16 B-11 (35-36.5) - 11 35 B-11 (37.5-39)	11 35 B-11 (37.5-39)	Becomes loose 11 35 B-11 (37.5-39) Becomes loose Becomes wet	Becomes loose 11 35 B-11 (37.5-39) Becomes medium dense, wet	Becomes loose 11 35 B-11 (37.5-39) Becomes medium dense, wet NS 218 NS 265

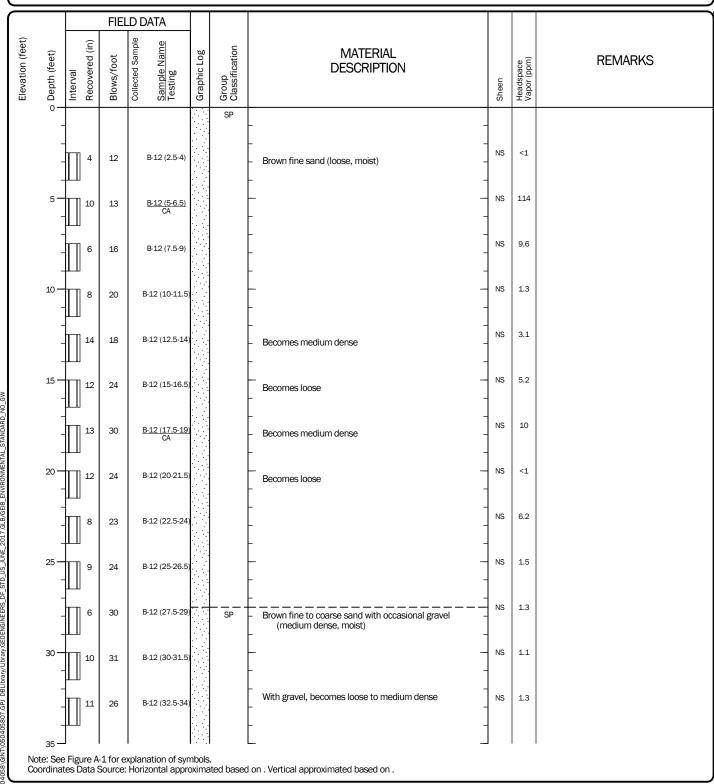
Log of Boring B-11 (continued)



Project: Airport Kwik Stop

Project Location: Ione, Washington Project Number: 0504-058-07

Drilled	<u>Start</u> 9/14/2023	<u>End</u> 9/14/2023	Total Depth (ft)	41.5	Logged By Checked By	LTO JDO	Driller Cascade Drilling		Drilling Method Hollow-stem Auger
	Surface Elevation (ft) Undetermined Vertical Datum				Hammer Data	140	0 (lbs) / 30 (in) Drop	Drilling Equipment	SCME-55
	Easting (X) Northing (Y)			System Datum			Groundwat	er not measured at time of exploration	
Notes:									



Log of Boring B-12



Project: Airport Kwik Stop

Project Location: Ione, Washington
Project Number: 0504-058-07

\bigcap			FIEL	_D DATA						
Elevation (feet)	d Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	35 -	12	30	B-12 (35-36.5			Becomes medium dense	NS -	4.1	
	- -	14	29	<u>B-12 (37.5-39</u> CA			With occasional gravel Becomes wet	NS	1136	Petroleum odor
	40 —	10	31	<u>B-12 (40-41.5</u> CA		 SP	Brown coarse sand (medium dense, wet)	- NS	42	
	·									

Log of Boring B-12 (continued)



Project: Airport Kwik Stop

Project Location: Ione, Washington Project Number: 0504-058-07

APPENDIX B
Chemical Analytical Laboratory Reports and Data
Validation



Data Validation Report

523 East Second Avenue, Spokane, Washington 99202, Telephone: 509.363.3125

www.geoengineers.com

Project: Ione Kwik Stop Site – Soil and Groundwater Cleanup

November 2023 Groundwater Samples

GEI File No: 0504-058-07 **Date:** March 7, 2024

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the November 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Airport Kwik Stop facility located in lone, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Quality Assurance Project Plan (QAPP), Appendix B of the Work Plan (GeoEngineers 2023), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

Ione Kwik Stop Site – Soil and Groundwater Cleanup November 2023 Groundwater Samples March 7, 2024 Page 2

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
590-22374-1	MW-3: 113023, MW-8: 113023, DUP 1: 113023, MW-9: 113023, MW-10: 112923, MW-11: 112923, MW-15: 112923, MW-18: 112923

CHEMICAL ANALYSIS PERFORMED

Eurofins Spokane, Environment Testing Northwest, LLC (Eurofins), located in Spokane, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Organic Compounds (VOCs) by Method EPA8260D;
- Total and Dissolved Metals by Method EPA6020B;
- Dissolved Gases by Method RSK-175;
- Anions by Method EPA300.0;
- Total and Bicarbonate Alkalinity by Method SM2320B;
- Total Dissolved Solids by Method SM2540C; and
- Total Organic Carbon by Method SM5310B

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

Eurofins provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.



Ione Kwik Stop Site – Soil and Groundwater Cleanup November 2023 Groundwater Samples March 7, 2024 Page 3

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks, with the following exceptions:

SDG 590-22374-1: (Alkalinity) There was a positive result for total and bicarbonate alkalinity in the method blank digested on 12/11/2023. The positive results for these target analytes were greater than 10X the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.



Ione Kwik Stop Site – Soil and Groundwater Cleanup November 2023 Groundwater Samples March 7, 2024 Page 4

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 590-22374-1: (VOCs) The percent recovery for 2,2-Dichloropropane was greater than the control limits in the LCS extracted on 12/8/2023; however, the percent recovery for this target analyte was within the control limits in the corresponding LCSD. No action was required for this outlier.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit water samples is 35 percent.

SDG 590-22374-1: One field duplicate sample pair, MW-8: 113023 and DUP 1: 113023, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, gasoline-range hydrocarbons, total iron, dissolved manganese, total manganese, nitrate, n-Propylbenzene, sulfate, tert-Butylbenzene, and total dissolved solids. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exception noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.



TABLE 2. SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
	1,2,4-Trimethylbenzene	J	Field Duplicate Precision
	1,3,5-Trimethylbenzene	J	Field Duplicate Precision
	Gasoline-range hydrocarbons	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Dissolved manganese	J	Field Duplicate Precision
MW-8: 113023	Total manganese	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	n-Propylbenzene	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
	tert-Butylbenzene	J	Field Duplicate Precision
	Total dissolved solids	J	Field Duplicate Precision
	1,2,4-Trimethylbenzene	J	Field Duplicate Precision
	1,3,5-Trimethylbenzene	J	Field Duplicate Precision
	Gasoline-range hydrocarbons	J	Field Duplicate Precision
	Total iron	J	Field Duplicate Precision
	Dissolved manganese	J	Field Duplicate Precision
DUP 1: 113023	Total manganese	J	Field Duplicate Precision
	Nitrate	J	Field Duplicate Precision
	n-Propylbenzene	J	Field Duplicate Precision
	Sulfate	J	Field Duplicate Precision
	tert-Butylbenzene	J	Field Duplicate Precision
	Total dissolved solids	J	Field Duplicate Precision

REFERENCES

- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.
- GeoEngineers, Inc. (GeoEngineers). "Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup Data Gap Assessment," prepared for Washington State Department of Ecology. September 8, 2023.





Data Validation Report

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www.geoengineers.com

Project: Ione Kwik Stop Site – Soil and Groundwater Cleanup

September 2023 Soil and Groundwater Samples

GEI File No: 0504-058-07

Date: October 28, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and groundwater samples collected as part of the September 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Airport Kwik Stop facility located in lone, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Quality Assurance Project Plan (QAPP), Appendix B of the Work Plan (GeoEngineers 2023), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
590-21718-1	MW-8:091223, Dup:091223
590-21723-1	B-8 (12.5-14), B-8 (25-26.5), B-8 (37.5-39), B-8 (40-41.5), B-9 (12.5-14), B-9 (27.5-29), B-9 (37.5-39), B-9 (40-41.5), B-10 (10-11.5), B-10 (25-26.5), B-10 (32.5-34), B-10 (40-41.5), B-11 (5-6.5), B-11 (20-21.5), B-11 (32.5-34), B-11 (40-41.5), B-12 (5-6.5), B-12 (17.5-19), B-12 (37.5-39), B-12 (40-41.5), MW-3:091523, MW-9:091523, MW-10:091523, MW-11:091523, MW-15:091523

CHEMICAL ANALYSIS PERFORMED

Eurofins Spokane, Environment Testing Northwest, LLC (Eurofins), located in Spokane, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Organic Compounds (VOCs) by Method EPA8260D;
- Total Metals by Method EPA6010D;
- Total and Dissolved Metals by Method EPA200.8;
- Dissolved Gases by Method RSK-175;
- Anions by Method EPA300.0;
- Total Alkalinity by Method SM2320B;
- Total Organic Carbon (Water) by Method SM5310C; and
- Total Organic Carbon (Soil) by Method SW9060A.

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

Eurofins provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.



Ione Kwik Stop Site – Soil and Groundwater Cleanup September 2023 Soil and Groundwater Samples October 28, 2023 Page 3

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 590-21718-1: (Anions) The 48-hour holding time for nitrate analysis was exceeded in Sample MW-8:091223. The positive result for nitrate was qualified as estimated (J) in this sample.

SDG 590-21723-1: (NWTPH-Gx) The 14-day holding time for gasoline-range hydrocarbons analysis was exceeded in Samples B-9 (37.5-39) and B-9 (40-41.5). The positive results for gasoline-range hydrocarbons were qualified as estimated (J) in these samples.

(VOCs) The 14-day holding time for VOCs analysis was exceeded in Samples B-9 (37.5-39) and B-9 (40-41.5). The positive result and reporting limits for the VOC target analytes were qualified as estimated (J and UJ, accordingly) in these samples.

(Anions) The 48-hour holding time for nitrate analysis was exceeded in Samples MW-3:091523, MW-9:091523, and MW-18:091523. The positive results and reporting limit for nitrate were qualified as estimated (J and UJ, accordingly) in these samples.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

SDG 590-21723-1: (VOCs) The percent recovery for surrogate toluene-d8 was greater than the control limits in Sample B-11 (5-6.5); however, the sample was spiked with three additional surrogates and in each case the percent recovery values were within their respective control limits. No action was required for this outlier.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks, with the following exceptions:

SDG 590-21718-1: (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons in the method blank extracted on 9/18/2023. The positive results for this target analyte were greater than 2X



Ione Kwik Stop Site – Soil and Groundwater Cleanup September 2023 Soil and Groundwater Samples October 28, 2023 Page 4

the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

(VOCs) There was a positive result for naphthalene in the method blank extracted on 9/18/2023. The positive results for this target analyte were qualified as non-detected (U) in Samples MW-8:091223 and Dup:091223.

(Alkalinity) There was a positive result for alkalinity in the method blank digested on 9/22/2023. The positive result for this target analyte was greater than 10X the concentration in the method blank in the associated field sample; therefore, no qualification was required.

SDG 590-21723-1: (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons in the method blank extracted on 9/19/2023. The positive results for this target analyte were qualified as non-detected (U) in Samples MW-9:091523, MW-10:091523, and MW-11:091523.

(VOCs) There was a positive result for naphthalene in the method blank extracted on 9/19/2023. The positive result for this target analyte was greater than 2X the concentration in the method blank in the associated field sample; therefore, no qualification was required.

(Alkalinity) There was a positive result for alkalinity in the method blank digested on 9/28/2023. The positive results for this target analyte were greater than 10X the concentration in the method blank in the associated field samples; therefore, no qualifications were required.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent



Ione Kwik Stop Site – Soil and Groundwater Cleanup September 2023 Soil and Groundwater Samples October 28, 2023 Page 5

recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 590-21723-1: (VOCs) The laboratory performed a laboratory duplicate sample set on Sample B-12 (5-6.5). The RPD for naphthalene was greater than the control limits in the laboratory duplicate extracted on 9/27/2023. The positive result for this target analyte was qualified as estimated (J) in this sample.

Field Duplicates

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for soil and water samples is 35 percent.

SDG 590-21718-1: One field duplicate sample pair, MW-8:091223 and Dup:091223, was submitted with this SDG. The precision criteria for all target analytes were met for this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.



TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
P.O. (27 E 20)	Gasoline-range hydrocarbons	J	Holding Time
B-9 (37.5-39)	All VOC target analytes	UJ	Holding Time
	Gasoline-range hydrocarbons	J	Holding Time
B-9 (40-41.5)	Toluene	J	Holding Time
	All other VOC target analytes	UJ	Holding Time
B-12 (5-6.5)	Naphthalene	J	Laboratory Duplicate Precision
MW-3:091523	Nitrate	UJ	Holding Time
MW-8:091223	Naphthalene	U	Method Blank Contamination
WW-6.091223	Nitrate	J	Holding Time
Dup:091223	Naphthalene	U	Method Blank Contamination
MW 0.004 F02	Gasoline-range hydrocarbons	U	Method Blank Contamination
MW-9:091523	Nitrate	J	Holding Time
MW-10:091523	Gasoline-range hydrocarbons	U	Method Blank Contamination
MW-11:091523	Gasoline-range hydrocarbons	U	Method Blank Contamination
MW-18:091523	Nitrate	J	Holding Time

REFERENCES

- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.
- GeoEngineers, Inc. (GeoEngineers). "Work Plan, Airport Kwik Stop Soil and Groundwater Cleanup Data Gap Assessment," prepared for Washington State Department of Ecology. September 8, 2023.



ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Orr GeoEngineers Inc 523 East Second Ave Spokane, Washington 99202

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JOB DESCRIPTION

Ione Airport Kwik Stop/0504-05-08

JOB NUMBER

590-21718-1

Eurofins Spokane 11922 East 1st Ave Spokane WA 99206



Eurofins Spokane

Job Notes

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Authorization

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Authorized for release by Randee Arrington, Business Unit Manager Randee.Arrington@et.eurofinsus.com (509)924-9200

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9/25/2023

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Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-05-08

Laboratory Job ID: 590-21718-1

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Case Narrative

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-05-08

Job ID: 590-21718-1

Job ID: 590-21718-1

Laboratory: Eurofins Spokane

Narrative

Receipt

The samples were received on 9/15/2023 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 300.0: The following sample was received outside of holding time: MW-8:091223 (590-21718-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2320B: The method blank for analytical batch 590-43632 contained Alkalinity above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GeoEngineers Inc Project/Site: Ione Airport Kwik Stop/0504-05-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21718-1	MW-8:091223	Water	09/12/23 15:30	09/15/23 11:37
590-21718-2	Dup:091223	Water	09/12/23 23:00	09/15/23 11:37

Job ID: 590-21718-1

Definitions/Glossary

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

H3 Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Metals

Qualifier Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Spokane

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Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method: RSK-175 - Dissolved Gases (GC)

Analyte

Client Sample ID: MW-8:091223

Date Collected: 09/12/23 15:30 Date Received: 09/15/23 11:37 Lab Sample ID: 590-21718-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/18/23 22:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/18/23 22:44	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/18/23 22:44	1
Naphthalene	0.94	JB	2.0	0.63	ug/L			09/18/23 22:44	1
o-Xylene	ND		1.0	0.16	ug/L			09/18/23 22:44	1
Toluene	0.32	J	1.0	0.31	ug/L			09/18/23 22:44	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/18/23 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120			·		09/18/23 22:44	1
4-Bromofluorobenzene (Surr)	98		76 - 120					09/18/23 22:44	1
Dibromofluoromethane (Surr)	91		80 - 123					09/18/23 22:44	1
Toluene-d8 (Surr)	106		80 - 120					09/18/23 22:44	1
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDĹ	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1700	В	150	31	ug/L			09/18/23 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141			-		09/18/23 22:44	

Methane	ND		5.0	0.63	ug/L			09/19/23 19:55	1
Method: EPA 300.0 - A	nions, Ion Chroma	tography							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.3	н нз	0.20	0.057	mg/L			09/15/23 17:49	1
Sulfate	150		5.0	1.3	mg/L			09/18/23 16:21	10

RL

MDL Unit

Prepared

Analyzed

Dil Fac

Result Qualifier

Method. Li A 200.0 - Metals (i									
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.88		0.10	0.013	mg/L		09/19/23 16:02	09/20/23 13:42	1
Manganese	0.62		0.0020	0.00046	mg/L		09/19/23 16:02	09/20/23 13:42	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Iron	0.077	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:07	1
	Manganese	0.46		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:07	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	340	В	20	5.0	mg/L		-	09/22/23 13:00	1
Total Organic Carbon (SM 5310C)	4.5		1.5	0.38	mg/L			09/21/23 21:29	1

Client Sample ID: Dup:091223

Date Collected: 09/12/23 23:00

Date Received: 09/15/23 11:37

Lab Sample ID: 590-21718-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Method: SW846 8260D - Volati	ie Organic (Compound	as by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ua/L			09/18/23 23:06	1

Eurofins Spokane

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Client Sample Results

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Client Sample ID: Dup:091223

Date Collected: 09/12/23 23:00 Date Received: 09/15/23 11:37 Lab Sample ID: 590-21718-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.20	ug/L			09/18/23 23:06	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/18/23 23:06	1
Naphthalene	0.84	JB	2.0	0.63	ug/L			09/18/23 23:06	1
o-Xylene	ND		1.0	0.16	ug/L			09/18/23 23:06	1
Toluene	ND		1.0	0.31	ug/L			09/18/23 23:06	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/18/23 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		80 - 120					09/18/23 23:06	1
4-Bromofluorobenzene (Surr)	97		76 - 120					09/18/23 23:06	1
Dibromofluoromethane (Surr)	93		80 - 123					09/18/23 23:06	1
Toluene-d8 (Surr)	107		80 - 120					09/18/23 23:06	1

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1800	В	150	31	ug/L			09/18/23 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141					09/18/23 23:06	1

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Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-43533/12

Matrix: Water

Analyte

Benzene

Ethylbenzene

m,p-Xylene

Naphthalene

Xylenes, Total

o-Xylene

Toluene

Analysis Batch: 43533

Client Sample ID: Method Blank Prep Type: Total/NA

09/18/23 14:29

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac ND 0.40 0.093 ug/L 09/18/23 14:29 ND 1.0 0.20 ug/L 09/18/23 14:29 1 ND 2.0 09/18/23 14:29 0.28 ug/L 0.63 ug/L 0.673 J 2.0 09/18/23 14:29 ND 1.0 0.16 ug/L 09/18/23 14:29 ND 1.0 0.31 ug/L 09/18/23 14:29

0.44 ug/L

MB MB

ND

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/18/23 14:29	1
4-Bromofluorobenzene (Surr)	108		76 - 120		09/18/23 14:29	1
Dibromofluoromethane (Surr)	101		80 - 123		09/18/23 14:29	1
Toluene-d8 (Surr)	103		80 - 120		09/18/23 14:29	1

3.0

Lab Sample ID: LCS 590-43533/1009

Matrix: Water

Analysis Batch: 43533

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 10.0 Benzene 10.4 ug/L 104 80 - 120 Ethylbenzene 10.0 10.1 101 80 - 122 ug/L 10.0 9 78 m,p-Xylene ug/L 98 80 - 125 Naphthalene 10.0 9.33 ug/L 93 61 - 140 o-Xylene 93 10.0 9.31 ug/L 80 - 130 Toluene 10.0 10.0 ug/L 100 80 - 129

Spike

Added

10.0

10.0

10.0

10.0

10.0

10.0

9.99

9.70

9.43

9.32

9.24

9.89

ug/L

ug/L

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	98		80 - 123
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 590-43533/10

Matrix: Water

Analyte

Benzene

Ethylbenzene

m,p-Xylene

Naphthalene

o-Xylene

Toluene

Analysis Batch: 43533

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

LCSD LCSD RPD %Rec Result Qualifier Limits **RPD** Limit Unit D %Rec 100 80 - 120 15 ug/L ug/L 97 80 - 122 35 ug/L 94 80 - 125 35 ug/L 93 61 - 140 O 25

92

80 - 130

80 - 129

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120

Eurofins Spokane

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Job ID: 590-21718-1

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-05-08

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Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-43533/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43533

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		80 - 123
Toluene-d8 (Surr)	100		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43532/12 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 43532

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	44.7	J	150	31	ug/L			09/18/23 14:29	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	68.7 - 141		09/18/23 14:29	1

Lab Sample ID: LCS 590-43532/1011 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

LCS LCS

Analysis Batch: 43532

	Opino						/01100	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline	1000	1040		ug/L		104	80 - 120	

Snika

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 68.7 - 141 103

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-626748/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 626748

	MB I	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			09/19/23 19:42	1

Lab Sample ID: LCS 280-626748/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 626748

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methane	65.7	72.1		ug/L		110	75 - 125	

Lab Sample ID: LCSD 280-626748/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 626748									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Methane	65.7	72.0		ug/L		110	75 - 125	0	20

Eurofins Spokane

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 590-21718-1 DU Client Sample ID: MW-8:091223

Matrix: Water

Analysis Batch: 626748

Prep Type: Total/NA

RPD Sample Sample DU DU Result Qualifier Result Qualifier D RPD Limit Analyte Unit Methane ND ND ug/L NC 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43516/1003 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43516

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.20 Nitrate as N $\overline{\mathsf{ND}}$ 0.057 mg/L 09/15/23 14:55

Lab Sample ID: LCS 590-43516/1004 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 43516

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Nitrate as N 5.00 5.06 mg/L 101 90 - 110

Lab Sample ID: MB 590-43518/1003 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 43518

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Sulfate $\overline{\mathsf{ND}}$ 0.50 0.13 mg/L 09/18/23 15:21

Lab Sample ID: LCS 590-43518/1004 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 43518

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Sulfate 12.5 12.6 mg/L 101 90 - 110

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-437983/26-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 438195

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed **Analyte** Dil Fac Iron $\overline{\mathsf{ND}}$ 0.10 0.013 mg/L 09/19/23 16:02 09/20/23 12:48 ND 0.0020 0.00046 mg/L 09/19/23 16:02 09/20/23 12:48 Manganese

Lab Sample ID: LCS 580-437983/27-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 438195

Prep Batch: 437983 Spike LCS LCS %Rec Added Limits Result Qualifier Unit D %Rec

Analyte Iron 20.0 20.6 mg/L 103 85 - 115 1.00 1.03 mg/L 103 85 - 115 Manganese

Eurofins Spokane

Prep Batch: 437983

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-437983/28-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 438195

Prep Type: Total/NA **Prep Batch: 437983**

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Iron 20.0 21.5 mg/L 108 85 - 115 4 20 Manganese 1.00 1.07 mg/L 107 85 - 115 20

Lab Sample ID: MB 580-438128/1-B

Matrix: Water

Analysis Batch: 438541

Client Sample ID: Method Blank **Prep Type: Dissolved**

Prep Batch: 438340

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac ND 0.10 0.013 mg/L 09/21/23 17:58 09/22/23 14:37 Iron 0.0020 ND 0.00046 mg/L 09/21/23 17:58 09/22/23 14:37 Manganese

Lab Sample ID: LCS 580-438128/2-B **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Dissolved Prep Batch: 438340**

Analysis Batch: 438541

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 20.0 21.3 85 - 115 mg/L 107 1 00 1 04 Manganese mg/L 104 85 - 115

Lab Sample ID: LCSD 580-438128/3-B

Matrix: Water

Iron

Analysis Batch: 438541

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved Prep Batch: 438340

Prep Type: Total/NA

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Iron 20.0 21.5 85 - 115 20 mg/L 107 1.00 Manganese 1.04 mg/L 104 85 - 115 20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 590-43632/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 43632

MB MB

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Alkalinity 5.00 J 20 5.0 mg/L 09/22/23 13:00

Lab Sample ID: LCS 590-43632/2 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 43632

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Alkalinity 501 505 mg/L 101 90 - 110

Eurofins Spokane

9/25/2023

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method: SM 5310C - TOC

Lab Sample ID: MB 580-438354/3 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 438354

MB MB Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared Total Organic Carbon 1.5 0.38 mg/L 09/21/23 13:46 ND

Lab Sample ID: LCS 580-438354/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 438354

Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits **Total Organic Carbon** 10.0 85 - 115 9.77 mg/L 98

Lab Sample ID: LCSD 580-438354/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 438354

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Total Organic Carbon 10.0 9.38 85 - 115 20 mg/L

Prep Type: Total/NA

Lab Chronicle

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Client Sample ID: MW-8:091223

Lab Sample ID: 590-21718-1 Date Collected: 09/12/23 15:30

Matrix: Water Date Received: 09/15/23 11:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43533	09/18/23 22:44	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43532	09/18/23 22:44	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	626748	09/19/23 19:55	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43516	09/15/23 17:49	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	43518	09/18/23 16:21	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 15:59	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:07	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	437983	09/19/23 16:02	JLS	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438195	09/20/23 13:42	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43632	09/22/23 13:00	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1	40 mL	40 mL	438354	09/21/23 21:29	AUA	EET SEA

Lab Sample ID: 590-21718-2 Client Sample ID: Dup:091223 **Matrix: Water**

Date Collected: 09/12/23 23:00 Date Received: 09/15/23 11:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43533	09/18/23 23:06	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43532	09/18/23 23:06	JSP	EET SPK

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310 EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-05-08

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	12037	06-14-23 *
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25

Page 15 of 23

Eurofins Spokane

9/25/2023

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Job ID: 590-21718-1

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 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Accreditation/Certification Summary

Client: GeoEngineers Inc Job ID: 590-21718-1

Project/Site: Ione Airport Kwik Stop/0504-05-08

Laboratory: Eurofins Seattle (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-23 *
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-23 *
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

 $^{^{\}star} \ Accreditation/Certification \ renewal \ pending \ - \ accreditation/certification \ considered \ valid.$

Eurofins Spokane

Method Summary

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-05-08

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
RSK-175	Dissolved Gases (GC)	RSK	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET SPK
200.8	Metals (ICP/MS)	EPA	EET SEA
SM 2320B	Alkalinity	SM	EET SPK
SM 5310C	TOC	SM	EET SEA
200.8	Preparation, Total Metals	EPA	EET SEA
5030C	Purge and Trap	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SEA

Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Job ID: 590-21718-1

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Chain of Custody Record

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Environment Testing America

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11922 East 1st Ave

Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



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Environment Testing

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Ver: 06/08/2021

Eurofins Spokane

11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



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Environment Testing

TROIG. 303-324-9200 F dx. 303-324-9200	Sampler:	·····	***************************************	4	b PM:	n, Rand	ion E					Carr	er Tra	cking	No(s)	1			COC No: 590-8254.	1			
Client Information (Sub Contract Lab)	Phone:	Phone: E-M				· · · ·							State of Origin:						Page:				
Shipping/Receiving						andee.Arrington@et.eurofinsus.com Accreditations Required (See note):								ton					Page 1 of 1 Job#:				
Company: Eurofins Environment Testing Northwest,						ate Pro													590-21718	8-1			
ddress:	Due Date Reques	ted:			1				A	1m.:	- D-		. 4						Preservation	on Co			
755 8th Street East, ,	9/28/2023 TAT Requested (c	lave):					Т	. 1	Ana	iysi	s Re	que	stea			Τ	1		A - HCL		M - Hexane N - None		
ity: "acoma	(A) Requested (C	iayəş.						İ			1								B - NaOH C - Zn Aceta		O - AsNaO2 P - Na2O4S		
itate, Zip:								ļ											D - Nitric Ac E - NaHSO4		Q - Na2SO3		
VA, 98424	PO#:				- 1	2	20												F - MeOH		R - Na2S2O3 S - H2SO4		
Phone: 153-922-2310(Tel)	100				a l	Total Iron	2												G - Amchlor H - Ascorbic		T - TSP Dodecah	ydrate	
mail:	WO #:				7	2 10 E	SiO (I - Ice J - Di Water		V - MCAA		
roject Name:	Project #:					(es or No) TOT (MOD)T	QQ	5										2	K - EDTA		W - pH 4-5 Y - Trizma		
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			Sample	Matrix		NA/Z	NA/F	otal															
		Sample	Type (C≖comp,	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=A	Ē	E 0	S and	5310C/ Total															
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A#A	』。)[記	2 8 2	200. Man	531(1								Ē	Spe	cial In	structions/Not	e:	
		><	Preserva	tion Code:	X	\mathbf{X}^{-}												X					
fW-8:091223 (590-21718-1)	9/12/23	15:30		Water	П	х	х	х										3					
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ote: Since laboratory accreditations are subject to change, Eurofins Environn bes not currently maintain accreditation in the State of Origin listed above for atus should be brought to Eurofins Environment Testing Northwest, LLC atte	analysis/tests/matrix he	ing analyzed th	e samples mu	ist be shipped	l back to e, returi	o the Eur n the sign	ofins Env ed Chair	rironn n of C	nent Tes Custody a	ting N attestir	orthweing to sa	st, LLC iid con	labor ipliand	atory o	or othe urofin	er insti is Envi	ironm	ns will ent Te	i be provided. esting Northw	est, i.i.	nanges to accreditat C.	iborat ion	
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New House

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Job Number: 590-21718-1

Client: GeoEngineers Inc

Login Number: 21718 List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

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Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Spokane

Job Number: 590-21718-1

Login Number: 21718

List Source: Eurofins Denver
List Number: 2

List Creation: 09/16/23 01:20 PM

Creator: Martinez, Anthony

Answer	Comment
N/A	
True	
N/A	
True	
N/A	
	N/A True True True True True True True Tru

9/25/2023

Job Number: 590-21718-1

Login Number: 21718
List Source: Eurofins Seattle
List Number: 3
List Creation: 09/16/23 02:28 PM

Creator: Prigge, Madison

Creator: Prigge, Madison		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR11 3.2/3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Orr GeoEngineers Inc 523 East Second Ave Spokane, Washington 99202

Generated 10/6/2023 8:32:36 AM

JOB DESCRIPTION

Kwik Stop/0504-05-07

JOB NUMBER

590-21723-1

Eurofins Spokane 11922 East 1st Ave Spokane WA 99206



Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

Generated 10/6/2023 8:32:36 AM

Authorized for release by Randee Arrington, Business Unit Manager Randee.Arrington@et.eurofinsus.com (509)924-9200

Page 2 of 77 10/6/2023

Client: GeoEngineers Inc Project/Site: Kwik Stop/0504-05-07 Laboratory Job ID: 590-21723-1

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Case Narrative

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Job ID: 590-21723-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-21723-1

Receipt

The samples were received on 9/18/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 6.0° C.

Receipt Exceptions

Method 300.0: The following samples were received outside of holding time: MW-3:091523 (590-21723-24), MW-9:091523 (590-21723-25) and MW-18:091523 (590-21723-29).

GC/MS VOA

Method NWTPH-Gx: The method blank for analytical batch 590-43561 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The method blank for analytical batch 590-43562 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: B-11 (5-6.5) (590-21723-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: The following samples were analyzed outside of analytical holding time due to analyst error: B-9 (37.5-39) (590-21723-74) and B-9 (40-41.5) (590-21723-75).

Method 8260D: The following samples were analyzed outside of analytical holding time due to analyst error: B-9 (37.5-39) (590-21723-74) and B-9 (40-41.5) (590-21723-75).

Method NWTPH-Gx: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 590-43762 and analytical batch 590-43764.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 300.0: The following samples were received outside of holding time: MW-3:091523 (590-21723-24), MW-9:091523 (590-21723-25) and MW-18:091523 (590-21723-29).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2320B: The method blank for analytical batch 590-43814 contained Alkalinity above the method detection limit (MDL) and below the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

Method 5035: The following sample, MeOH VOA vial contains no soil sample and the unpreserved bulk sample jar was used instead with

Case Narrative

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Job ID: 590-21723-1 (Continued)

Laboratory: Eurofins Spokane (Continued)

client approval: B-10 (32.5-34) (590-21723-54)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

590-21723-75

B-9 (40-41.5)

Client: GeoEngineers Inc Project/Site: Kwik Stop/0504-05-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-21723-2	B-12 (5-6.5)	Solid	09/14/23 10:35	09/18/23 09:23
590-21723-7	B-12 (17.5-19)	Solid	09/14/23 11:10	09/18/23 09:23
590-21723-15	B-12 (37.5-39)	Solid	09/14/23 12:30	09/18/23 09:23
590-21723-16	B-12 (40-41.5)	Solid	09/14/23 12:40	09/18/23 09:23
590-21723-19	B-9 (12.5-14)	Solid	09/13/23 14:40	09/18/23 09:23
590-21723-23	B-9 (27.5-29)	Solid	09/13/23 15:00	09/18/23 09:23
590-21723-24	MW-3:091523	Water	09/15/23 08:55	09/18/23 09:23
590-21723-25	MW-9:091523	Water	09/15/23 10:02	09/18/23 09:23
590-21723-26	MW-10:091523	Water	09/15/23 12:23	09/18/23 09:23
590-21723-27	MW-11:091523	Water	09/15/23 11:39	09/18/23 09:23
590-21723-28	MW-15:091523	Water	09/15/23 13:15	09/18/23 09:23
590-21723-29	MW-18:091523	Water	09/15/23 10:57	09/18/23 09:23
590-21723-31	B-11 (5-6.5)	Solid	09/14/23 13:45	09/18/23 09:23
590-21723-37	B-11 (20-21.5)	Solid	09/14/23 14:15	09/18/23 09:23
590-21723-42	B-11 (32.5-34)	Solid	09/14/23 15:00	09/18/23 09:23
590-21723-45	B-11 (40-41.5)	Solid	09/14/23 15:35	09/18/23 09:23
590-21723-47	B-10 (10-11.5)	Solid	09/14/23 08:26	09/18/23 09:23
590-21723-51	B-10 (25-26.5)	Solid	09/14/23 08:44	09/18/23 09:23
590-21723-54	B-10 (32.5-34)	Solid	09/14/23 09:00	09/18/23 09:23
590-21723-56	B-10 (40-41.5)	Solid	09/14/23 09:25	09/18/23 09:23
590-21723-62	B-8 (12.5-14)	Solid	09/13/23 12:40	09/18/23 09:23
590-21723-67	B-8 (25-26.5)	Solid	09/13/23 13:20	09/18/23 09:23
590-21723-72	B-8 (37.5-39)	Solid	09/13/23 13:45	09/18/23 09:23
590-21723-73	B-8 (40-41.5)	Solid	09/13/23 14:00	09/18/23 09:23
590-21723-74	B-9 (37.5-39)	Solid	09/13/23 15:20	09/18/23 09:23

Solid

09/13/23 15:50 09/18/23 09:23

Job ID: 590-21723-1

Definitions/Glossary

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Qualifiers

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 Qualifier
 Qualifier Description

 B
 Compound was found in the blank and sample.

F5 Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is <

the upper reporting limits for both.

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

H3 Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

Eurofins Spokane

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Definitions/Glossary

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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J

0

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Project/Site: Kwik Stop/0504-05-07

Client: GeoEngineers Inc

Date Received: 09/18/23 09:23

Client Sample ID: B-12 (5-6.5)

Lab Sample ID: 590-21723-2

Date Collected: 09/14/23 10:35 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 81.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.042	0.021	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 14:05	1
Ethylbenzene	ND		0.21	0.034	mg/Kg	☼	09/27/23 10:40	09/27/23 14:05	1
m,p-Xylene	ND		0.85	0.061	mg/Kg	☼	09/27/23 10:40	09/27/23 14:05	1
o-Xylene	ND		0.42	0.049	mg/Kg	₩	09/27/23 10:40	09/27/23 14:05	1
Toluene	0.073	J	0.21	0.028	mg/Kg	☼	09/27/23 10:40	09/27/23 14:05	1
Naphthalene	0.19	J	0.42	0.059	mg/Kg	☼	09/27/23 10:40	09/27/23 14:05	1
Xylenes, Total	ND		1.3	0.11	mg/Kg	☼	09/27/23 10:40	09/27/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				09/27/23 10:40	09/27/23 14:05	1
4-Bromofluorobenzene (Surr)	105		66 - 129				09/27/23 10:40	09/27/23 14:05	1
Dibromofluoromethane (Surr)	104		80 - 120				09/27/23 10:40	09/27/23 14:05	1
Toluene-d8 (Surr)	108		80 - 120				09/27/23 10:40	09/27/23 14:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	400		11	3.8	mg/Kg	₩	09/27/23 10:40	09/27/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162				09/27/23 10:40	09/27/23 14:05	1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3400	410	120	mg/Kg	₩	09/29/23 14:01	09/29/23 16:04	5
Iron	21000	410	170	mg/Kg	₩	09/29/23 14:01	09/29/23 16:04	5
Magnesium	4500	200	36	mg/Kg	₩	09/29/23 14:01	09/29/23 16:04	5
Manganese	390	61	4.2	mg/Kg	₩	09/29/23 14:01	09/29/23 16:04	5
Potassium	2000	100	51	mg/Kg	₽	09/29/23 14:01	10/03/23 19:21	5
Sodium	160	100	42	mg/Kg	≎	09/29/23 14:01	09/29/23 16:04	5

Ocheral Onemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	1500 J	2000	97	mg/Kg			10/05/23 21:52	1
Dup (SW846 9060A)								

Client Sample ID: B-12 (17.5-19) Lab Sample ID: 590-21723-7 Date Collected: 09/14/23 11:10 **Matrix: Solid**

ND				Unit	D	Prepared	Analyzed	Dil Fac
ND		0.051	0.026	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 14:48	1
ND		0.26	0.042	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
ND		1.0	0.074	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
ND		0.51	0.059	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
ND		0.26	0.034	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
ND		0.51	0.072	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
ND		1.5	0.13	mg/Kg	₩	09/27/23 10:40	09/27/23 14:48	1
			0.10	1119/119	*	00/21/20 10.40	00/2//20 14.40	D
	ND ND ND ND	ND ND ND ND	ND 1.0 ND 0.51 ND 0.26 ND 0.51 ND 1.5	ND 1.0 0.074 ND 0.51 0.059 ND 0.26 0.034 ND 0.51 0.072 ND 1.5 0.13	ND 1.0 0.074 mg/Kg ND 0.51 0.059 mg/Kg ND 0.26 0.034 mg/Kg ND 0.51 0.072 mg/Kg ND 1.5 0.13 mg/Kg	ND 1.0 0.074 mg/Kg ☆ ND 0.51 0.059 mg/Kg ☆ ND 0.26 0.034 mg/Kg ☆ ND 0.51 0.072 mg/Kg ☆ ND 1.5 0.13 mg/Kg ☆	ND 1.0 0.074 mg/Kg	ND 1.0 0.074 mg/Kg \$\times\$ 09/27/23 10:40 09/27/23 14:48 ND 0.51 0.059 mg/Kg \$\times\$ 09/27/23 10:40 09/27/23 14:48 ND 0.26 0.034 mg/Kg \$\times\$ 09/27/23 10:40 09/27/23 14:48 ND 0.51 0.072 mg/Kg \$\times\$ 09/27/23 10:40 09/27/23 14:48 ND 1.5 0.13 mg/Kg \$\times\$ 09/27/23 10:40 09/27/23 14:48

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 10:40 09/27/23 14:48	1
4-Bromofluorobenzene (Surr)	104		66 - 129	09/27/23 10:40 09/27/23 14:48	1

Eurofins Spokane

Percent Solids: 93.2

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Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-12 (17.5-19)

Date Collected: 09/14/23 11:10 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-7

Matrix: Solid

Job ID: 590-21723-1

Percent Solids: 93.2

Method: SW846 8260D	- Volatile Organic	Compounds by GC/	MS (Continued)
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	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 14:48	1
١	Toluene-d8 (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 14:48	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result Qualifier	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	13	13	4.6	mg/Kg	*	09/27/23 10:40	09/27/23 14:48	1
Surrogate	%Recovery Qualified	r Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	41.5 - 162				09/27/23 10:40	09/27/23 14:48	1

Client Sample ID: B-12 (37.5-39)

Date Collected: 09/14/23 12:30 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-15

Matrix: Solid Percent Solids: 87.4

Method: SW846 8260D	- Volatile Organic	Volatile Organic Compounds by GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.041	0.021	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 16:14	1
Ethylbenzene	ND		0.21	0.034	mg/Kg	₽	09/27/23 10:40	09/27/23 16:14	1
m,p-Xylene	ND		0.83	0.059	mg/Kg	☼	09/27/23 10:40	09/27/23 16:14	1
o-Xylene	ND		0.41	0.048	mg/Kg	₽	09/27/23 10:40	09/27/23 16:14	1
Toluene	0.055	J	0.21	0.028	mg/Kg	☼	09/27/23 10:40	09/27/23 16:14	1
Naphthalene	0.11	J	0.41	0.058	mg/Kg	₽	09/27/23 10:40	09/27/23 16:14	1
Xvlenes. Total	ND		1.2	0.11	ma/Ka	☆	09/27/23 10:40	09/27/23 16:14	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94	79 - 124	09/27/23 10:40	09/27/23 16:14	1
4-Bromofluorobenzene (Surr)	103	66 - 129	09/27/23 10:40	09/27/23 16:14	1
Dibromofluoromethane (Surr)	100	80 - 120	09/27/23 10:40	09/27/23 16:14	1
Toluene-d8 (Surr)	101	80 - 120	09/27/23 10:40	09/27/23 16:14	1

Method: NWTPH-Gx - Northwest	- Volatile I	Petroleum	Products	(GC/MS)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	150		10	3.7	mg/Kg	₽	09/27/23 10:40	09/27/23 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162				09/27/23 10:40	09/27/23 16:14	1

Client Sample ID: B-12 (40-41.5)

Date Collected: 09/14/23 12:40 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-16

Matrix: Solid Percent Solids: 79.5

Method: SW846 8260D - Volati	le Organic Compounds b	y GC/MS
	B 1/ A 1/6	

Method: SW846 8260D	- voiatile Organic Compou							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.052	0.026	mg/Kg	-	09/27/23 10:40	09/27/23 16:35	1
Ethylbenzene	ND	0.26	0.042	mg/Kg	₩	09/27/23 10:40	09/27/23 16:35	1
m,p-Xylene	ND	1.0	0.074	mg/Kg	₩	09/27/23 10:40	09/27/23 16:35	1
o-Xylene	ND	0.52	0.059	mg/Kg	₽	09/27/23 10:40	09/27/23 16:35	1
Toluene	0.29	0.26	0.034	mg/Kg	₩	09/27/23 10:40	09/27/23 16:35	1
Naphthalene	ND	0.52	0.072	mg/Kg	₩	09/27/23 10:40	09/27/23 16:35	1
Xylenes, Total	ND	1.5	0.13	mg/Kg	₩	09/27/23 10:40	09/27/23 16:35	1

Client Sample ID: B-12 (40-41.5) Lab Sample ID: 590-21723-16

Date Collected: 09/14/23 12:40 **Matrix: Solid**

Date Received: 09/18/23 09:23 Percent Solids: 79.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 10:40	09/27/23 16:35	1
4-Bromofluorobenzene (Surr)	97		66 - 129	09/27/23 10:40	09/27/23 16:35	1
Dibromofluoromethane (Surr)	106		80 - 120	09/27/23 10:40	09/27/23 16:35	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 16:35	1

Method: NWTPH-Gx - Northw	est - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	7.8	J	13	4.6	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		41.5 - 162				09/27/23 10:40	09/27/23 16:35	1

Client Sample ID: B-9 (12.5-14)

Lab Sample ID: 590-21723-19 Date Collected: 09/13/23 14:40 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 94.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyzed ND 0.024 mg/Kg Benzene 0.049 © 09/27/23 10:40 09/27/23 16:57 Ethylbenzene ND 0.24 0.040 mg/Kg © 09/27/23 10:40 09/27/23 16:57 ND m,p-Xylene 0.070 mg/Kg 0.98 © 09/27/23 10:40 09/27/23 16:57 o-Xylene ND 0.49 0.056 mg/Kg © 09/27/23 10:40 09/27/23 16:57 Toluene ND 0.24 0.032 mg/Kg © 09/27/23 10:40 09/27/23 16:57 Naphthalene ND 0.49 0.068 mg/Kg © 09/27/23 10:40 09/27/23 16:57 Xylenes, Total ND 0.13 mg/Kg 1.5 © 09/27/23 10:40 09/27/23 16:57

Surrogate	%Recovery Qualit	ier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	79 - 124	09/27/23 10:40	09/27/23 16:57	1
4-Bromofluorobenzene (Surr)	101	66 - 129	09/27/23 10:40	09/27/23 16:57	1
Dibromofluoromethane (Surr)	104	80 - 120	09/27/23 10:40	09/27/23 16:57	1
Toluene-d8 (Surr)	97	80 - 120	09/27/23 10:40	09/27/23 16:57	1

Method: NWTPH-Gx - North	west - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		12	4.4	mg/Kg	☼	09/27/23 10:40	09/27/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			41.5 _ 162				09/27/23 10:40	09/27/23 16:57	

Client Sample ID: B-9 (27.5-29) Lab Sample ID: 590-21723-23 Date Collected: 09/13/23 15:00 **Matrix: Solid**

Date Received: 09/18/23 09:23 Percent Solids: 94.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.045	0.022	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 17:18	1
Ethylbenzene	ND		0.22	0.036	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1
m,p-Xylene	ND		0.90	0.064	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1
o-Xylene	ND		0.45	0.052	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1
Toluene	ND		0.22	0.030	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1
Naphthalene	ND		0.45	0.063	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1
Xylenes, Total	ND		1.3	0.12	mg/Kg	₩	09/27/23 10:40	09/27/23 17:18	1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-9 (27.5-29) Lab Sample ID: 590-21723-23

Date Collected: 09/13/23 15:00 **Matrix: Solid**

Date Received: 09/18/23 09:23 Percent Solids: 94.2

;	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1	1,2-Dichloroethane-d4 (Surr)	99		79 - 124	09/27/23 10:40	09/27/23 17:18	1
4	4-Bromofluorobenzene (Surr)	101		66 - 129	09/27/23 10:40	09/27/23 17:18	1
I	Dibromofluoromethane (Surr)	103		80 - 120	09/27/23 10:40	09/27/23 17:18	1
L	Toluene-d8 (Surr)	94		80 - 120	09/27/23 10:40	09/27/23 17:18	1

Method: NWTPH-Gx - Northy	west - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		11	4.0	mg/Kg	*	09/27/23 10:40	09/27/23 17:18	1
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 41.5 - 162				Prepared 09/27/23 10:40	Analyzed 09/27/23 17:18	Dil Fac

Client Sample ID: MW-3:091523 Lab Sample ID: 590-21723-24

Date Collected: 09/15/23 08:55 **Matrix: Water**

Method: EPA 200.8 - Metals (ICP/MS)

Analyte

Manganese

Iron

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/19/23 23:52	1
Ethylbenzene	1.9		1.0	0.20	ug/L			09/19/23 23:52	•
m,p-Xylene	4.0		2.0	0.28	ug/L			09/19/23 23:52	•
Naphthalene	3.6	В	2.0	0.63	ug/L			09/19/23 23:52	1
o-Xylene	ND		1.0	0.16	ug/L			09/19/23 23:52	1
Toluene	ND		1.0	0.31	ug/L			09/19/23 23:52	•
Xylenes, Total	4.0		3.0	0.44	ug/L			09/19/23 23:52	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	98		80 - 120					09/19/23 23:52	
4-Bromofluorobenzene (Surr)	93		76 - 120					09/19/23 23:52	1
Dibromofluoromethane (Surr)	99		80 - 123					09/19/23 23:52	1
Toluene-d8 (Surr)	109		80 - 120					09/19/23 23:52	

1,2-Dichloroethane-d4 (Surr)	98		80 - 120			-		09/19/23 23:52	1
4-Bromofluorobenzene (Surr)	93		76 - 120					09/19/23 23:52	1
Dibromofluoromethane (Surr)	99		80 - 123					09/19/23 23:52	1
Toluene-d8 (Surr)	109		80 - 120					09/19/23 23:52	1
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDĹ	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1000	В	150	31	ug/L			09/19/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		68.7 - 141			-		09/19/23 23:52	
4-Bioinolluolobelizelle (Sull)	93		00.7 - 141					09/19/23 23.52	
- -)	00.7 - 141					09/19/23 23.52	ı
Method: RSK-175 - Dissolv	ved Gases (GC)) Qualifier	80.7 - 141 RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: RSK-175 - Dissolv Analyte Methane	ved Gases (GC)				Unit ug/L	<u>D</u> .	Prepared		Dil Fac
Method: RSK-175 - Dissolv Analyte	ved Gases (GC) Result ND	Qualifier	RL			<u>D</u> .	Prepared	Analyzed	Dil Fac
Method: RSK-175 - Dissolv Analyte Methane Method: EPA 300.0 - Anion	ved Gases (GC) Result ND as, Ion Chromat	Qualifier	RL	0.63		D .	Prepared Prepared	Analyzed	1
Method: RSK-175 - Dissolv Analyte Methane	ved Gases (GC) Result ND as, Ion Chromat	Qualifier tography Qualifier	RL	0.63	ug/L Unit		·	Analyzed 09/22/23 00:50	Dil Fac

Eurofins Spokane

Analyzed

Prepared

09/25/23 16:28 09/27/23 03:56

09/25/23 16:28 09/27/23 03:56

RL

0.10

0.0020

MDL Unit

0.013 mg/L

0.00046 mg/L

Result Qualifier

7.1

1.2

Job ID: 590-21723-1

Dil Fac

10/6/2023

Project/Site: Kwik Stop/0504-05-07

Client: GeoEngineers Inc

Client Sample ID: MW-3:091523

Lab Sample ID: 590-21723-24

Date Collected: 09/15/23 08:55 **Matrix: Water** Date Received: 09/18/23 09:23

Method: EPA 200.8 - Metals	s (ICP/MS) - Dis	ssolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.091	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:05	1
Manganese	0.89		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:05	1
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Alkalinity (SM 2320B) 160 B 20 5.0 mg/L 09/28/23 15:05 1.5 0.38 mg/L 09/29/23 18:48 **Total Organic Carbon (SM 5310C)** 5.0

Lab Sample ID: 590-21723-25 Client Sample ID: MW-9:091523 Date Collected: 09/15/23 10:02 **Matrix: Water**

Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			09/20/23 00:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 00:14	1
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 00:14	1
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 00:14	1
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 00:14	1
Toluene	ND		1.0	0.31	ug/L			09/20/23 00:14	1
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120			-		09/20/23 00:14	1
4-Bromofluorobenzene (Surr)	110		76 - 120					09/20/23 00:14	1
Dibromofluoromethane (Surr)	104		80 - 123					09/20/23 00:14	1
Toluene-d8 (Surr)	104		80 - 120					09/20/23 00:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	48	JB	150	31	ug/L			09/20/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		68.7 - 141			•		09/20/23 00:14	1
Method: RSK-175 - Dissolv	ed Gases (GC))							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND	-	5.0	0.63	ug/L			09/22/23 01:03	1

Method: EPA 300.0 - Anions,									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.7	H H3	0.20	0.057	mg/L			09/19/23 15:50	1
Sulfate	18		0.50	0.13	mg/L			09/19/23 15:50	1

Method: EPA 200.8 - Metals								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30	0.10	0.013	mg/L		09/25/23 16:28	09/27/23 03:59	1
Manganese	0.35	0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 03:59	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Iron	0.065	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:02	1

Client: GeoEngineers Inc Project/Site: Kwik Stop/0504-05-07

Client Sample ID: MW-9:091523

Date Collected: 09/15/23 10:02 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-25

Matrix: Water

Method: EPA 200.8 - Metals (I	CP/MS) - Dissolved (Co	ontinued)
Analyte	Result Qualifier	RL

MDL Unit Prepared Analyzed Dil Fac Manganese 0.00070 J 0.0020 0.00046 mg/L 09/21/23 17:58 09/22/23 14:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	170	В	20	5.0	mg/L			09/28/23 15:05	1
Total Organic Carbon (SM 5310C)	2.1		1.5	0.38	mg/L			09/29/23 19:05	1

Client Sample ID: MW-10:091523

Lab Sample ID: 590-21723-26 Date Collected: 09/15/23 12:23 **Matrix: Water**

Date Received: 09/18/23 09:23

Method: SW846 8260D	lethod: SW846 8260D - Volatile Organic Compounds by GC/MS									
Analyte	Result Quali	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	ND ND	0.40	0.093	ug/L			09/20/23 00:36	1		
Ethylbenzene	ND	1.0	0.20	ug/L			09/20/23 00:36	1		
m,p-Xylene	ND	2.0	0.28	ug/L			09/20/23 00:36	1		
Naphthalene	ND	2.0	0.63	ug/L			09/20/23 00:36	1		
o-Xylene	ND	1.0	0.16	ug/L			09/20/23 00:36	1		
Toluene	ND	1.0	0.31	ug/L			09/20/23 00:36	1		
Xylenes, Total	ND	3.0	0.44	ug/L			09/20/23 00:36	1		

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120			09/20/23 00:36	1
4-Bromofluorobenzene (Surr)	105		76 - 120			09/20/23 00:36	1
Dibromofluoromethane (Surr)	106		80 - 123			09/20/23 00:36	1
Toluene-d8 (Surr)	105		80 - 120			09/20/23 00:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	47	JB	150	31	ug/L			09/20/23 00:36	1

Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 105 68.7 - 141 09/20/23 00:36

Client Sample ID: MW-11:091523

Lab Sample ID: 590-21723-27 Date Collected: 09/15/23 11:39 **Matrix: Water**

Date Received: 09/18/23 09:23

Michiga, Offoto 02000 - V	ethod. Offoro 0200D - foliatile Organic Compounds by Confid										
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	ND ND	0.40	0.093	ug/L			09/20/23 00:58	1			
Ethylbenzene	ND	1.0	0.20	ug/L			09/20/23 00:58	1			
m,p-Xylene	ND	2.0	0.28	ug/L			09/20/23 00:58	1			
Naphthalene	ND	2.0	0.63	ug/L			09/20/23 00:58	1			
o-Xylene	ND	1.0	0.16	ug/L			09/20/23 00:58	1			
Toluene	ND	1.0	0.31	ug/L			09/20/23 00:58	1			
Xylenes, Total	ND	3.0	0.44	ug/L			09/20/23 00:58	1			

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	80 - 120	$\overline{}$	9/20/23 00:58	1
4-Bromofluorobenzene (Surr)	106	76 - 120	0	9/20/23 00:58	1
Dibromofluoromethane (Surr)	105	80 - 123	0	9/20/23 00:58	1

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: MW-11:091523

Date Collected: 09/15/23 11:39

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-27

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

%Recovery Qualifier Analyzed Dil Fac Surrogate Prepared Toluene-d8 (Surr) 105 80 - 120 09/20/23 00:58

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac Gasoline 46 JB 150 31 ug/L 09/20/23 00:58

Surrogate Qualifier Limits %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 106 68.7 *-* 141 09/20/23 00:58

Client Sample ID: MW-15:091523

Date Collected: 09/15/23 13:15 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-28

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac ND 09/20/23 01:42 Benzene 0.40 0.093 ug/L ND Ethylbenzene 1.0 0.20 ug/L 09/20/23 01:42 ND m,p-Xylene 2.0 0.28 ug/L 09/20/23 01:42 Naphthalene ND 2.0 0.63 ug/L 09/20/23 01:42 o-Xylene ND 1.0 0.16 ug/L 09/20/23 01:42 Toluene ND 1.0 0.31 ug/L 09/20/23 01:42 Xylenes, Total ND 3.0 0.44 ug/L 09/20/23 01:42

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	80 - 120		09/20/23 01:42	1
4-Bromofluorobenzene (Surr)	100	76 - 120		09/20/23 01:42	1
Dibromofluoromethane (Surr)	104	80 - 123		09/20/23 01:42	1
Toluene-d8 (Surr)	104	80 - 120		09/20/23 01:42	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Result Qualifier MDL Unit Analyte D RL Prepared Analyzed Dil Fac Gasoline 150 ND 31 ug/L 09/26/23 00:00 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 68.7 - 141 09/26/23 00:00

Client Sample ID: MW-18:091523

Date Collected: 09/15/23 10:57 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-29

Matrix: Water

Method: SW846 8260D	lethod: SW846 8260D - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.40	0.093	ug/L			09/20/23 02:04	1	
Ethylbenzene	ND		1.0	0.20	ug/L			09/20/23 02:04	1	
m,p-Xylene	ND		2.0	0.28	ug/L			09/20/23 02:04	1	
Naphthalene	ND		2.0	0.63	ug/L			09/20/23 02:04	1	
o-Xylene	ND		1.0	0.16	ug/L			09/20/23 02:04	1	
Toluene	ND		1.0	0.31	ug/L			09/20/23 02:04	1	
Xylenes, Total	ND		3.0	0.44	ug/L			09/20/23 02:04	1	

Client Sample ID: MW-18:091523

Date Collected: 09/15/23 10:57 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-29

Matrix: Water

Job ID: 590-21723-1

Surrogate	%Recovery Qualifi	er Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	80 - 120	09/20/23 02:04	1
4-Bromofluorobenzene (Surr)	106	76 - 120	09/20/23 02:04	1
Dibromofluoromethane (Surr)	107	80 ₋ 123	09/20/23 02:04	1
Toluene-d8 (Surr)	105	80 - 120	09/20/23 02:04	1

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	31	ug/L			09/26/23 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			68 7 _ 141			_		09/26/23 00:21	

Method: RSK-175 - Dissolved	Gases (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND	5.0	0.63 ug/L			09/22/23 01:16	1
Г							

Method: EPA 300.0 - Anions,	ion Chromai	ograpny							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.56	H H3	0.20	0.057	mg/L			09/19/23 16:01	1
Sulfate	3.8		0.50	0.13	mg/L			09/19/23 16:01	1

Method: EPA 200.8 - Metals (IC	P/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.058	J	0.10	0.013	mg/L		09/25/23 16:28	09/27/23 02:20	1
Manganese	0.0013	J	0.0020	0.00046	mg/L		09/25/23 16:28	09/27/23 02:20	1

Method: EPA 200.8 - Metals (IC	P/MS) - Dis	ssolved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.049	J	0.10	0.013	mg/L		09/21/23 17:58	09/22/23 14:40	1
Manganese	ND		0.0020	0.00046	mg/L		09/21/23 17:58	09/22/23 14:40	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	160	В	20	5.0	mg/L			09/28/23 15:05	1
Total Organic Carbon (SM 5310C)	1.6		1.5	0.38	mg/L			09/29/23 19:23	1

Lab Sample ID: 590-21723-31 **Client Sample ID: B-11 (5-6.5)** Date Collected: 09/14/23 13:45 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.041	0.020	mg/Kg	☼	09/27/23 10:40	09/27/23 17:40	1
Ethylbenzene	0.31		0.20	0.033	mg/Kg	₽	09/27/23 10:40	09/27/23 17:40	1
m,p-Xylene	72		8.1	0.58	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10
o-Xylene	37		4.1	0.47	mg/Kg	₽	09/27/23 10:40	09/28/23 14:30	10
Toluene	0.31		0.20	0.027	mg/Kg	≎	09/27/23 10:40	09/27/23 17:40	1
Naphthalene	12		4.1	0.57	mg/Kg	☼	09/27/23 10:40	09/28/23 14:30	10
Xylenes, Total	110		12	1.0	mg/Kg	₩	09/27/23 10:40	09/28/23 14:30	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			79 - 124				09/27/23 10:40	09/27/23 17:40	1

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-11 (5-6.5)

Date Collected: 09/14/23 13:45 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-31

Matrix: Solid

Percent Solids: 82.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)	Method: SW846 8260D -	Volatile Organic C	ompounds by G	3C/MS (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	79 - 124	09/27/23 10:40	09/28/23 14:30	10
4-Bromofluorobenzene (Surr)	81	66 - 129	09/27/23 10:40	09/27/23 17:40	1
4-Bromofluorobenzene (Surr)	103	66 - 129	09/27/23 10:40	09/28/23 14:30	10
Dibromofluoromethane (Surr)	102	80 - 120	09/27/23 10:40	09/27/23 17:40	1
Dibromofluoromethane (Surr)	101	80 - 120	09/27/23 10:40	09/28/23 14:30	10
Toluene-d8 (Surr)	122 S1+	80 - 120	09/27/23 10:40	09/27/23 17:40	1
Toluene-d8 (Surr)	102	80 - 120	09/27/23 10:40	09/28/23 14:30	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDĹ	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2200		100	36	mg/Kg	₽	09/27/23 10:40	09/28/23 14:30	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162				09/27/23 10:40	09/28/23 14:30	10
4-Bromofluorobenzene (Surr)	105		41.5 - 162				09/27/23 10:40	09/28/23 14:52	100

Method: SW846 6010D - Metals (ICP)

Mictilioa. Offoto ou lob	- Metais (IOI)							
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3200	420	130	mg/Kg	— <u>~</u>	09/29/23 14:01	09/29/23 16:08	5
Iron	21000	420	180	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Magnesium	4500	210	38	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5
Manganese	410	64	4.4	mg/Kg	₩	09/29/23 14:01	09/29/23 16:08	5
Potassium	2000	110	53	mg/Kg	☼	09/29/23 14:01	10/03/23 19:25	5
Sodium	150	110	44	mg/Kg	☼	09/29/23 14:01	09/29/23 16:08	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	1300	J	2000	97	mg/Kg			10/05/23 22:05	1
Dup (SW846 9060A)									

Client Sample ID: B-11 (20-21.5)

Lab Sample ID: 590-21723-37 Date Collected: 09/14/23 14:15 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 94.7

Method: SW846 826	DD - Volatile Organic	Compounds by GC/MS
	e rolatile el gallie	Tompounds by Commo

			,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.050	0.025	mg/Kg	-	09/27/23 10:40	09/27/23 18:02	1
Ethylbenzene	ND		0.25	0.040	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
m,p-Xylene	ND		0.99	0.071	mg/Kg	₩	09/27/23 10:40	09/27/23 18:02	1
o-Xylene	ND		0.50	0.057	mg/Kg	₩	09/27/23 10:40	09/27/23 18:02	1
Toluene	ND		0.25	0.033	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Naphthalene	0.36	J	0.50	0.070	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	☼	09/27/23 10:40	09/27/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		79 - 124	09/27/23 10:40	09/27/23 18:02	1
4-Bromofluorobenzene (Surr)	106		66 - 129	09/27/23 10:40	09/27/23 18:02	1
Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 18:02	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 18:02	1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-11 (20-21.5)

Date Collected: 09/14/23 14:15 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-37

Matrix: Solid Percent Solids: 94.7

Job ID: 590-21723-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	KL	MIDL	Unit	U	Prepared	Analyzeu	DII Fac
Gasoline	51		12	4.5	mg/Kg		09/27/23 10:40	09/27/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

106 41.5 - 162 09/27/23 10:40 09/27/23 18:02 4-Bromofluorobenzene (Surr)

Client Sample ID: B-11 (32.5-34)

Date Collected: 09/14/23 15:00 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 93.5

Lab Sample ID: 590-21723-42

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.041	0.021	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 18:24	1
Ethylbenzene	ND	0.21	0.033	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1
m,p-Xylene	2.4	0.82	0.059	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1
o-Xylene	1.4	0.41	0.047	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1
Toluene	ND	0.21	0.027	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1
Naphthalene	0.62	0.41	0.058	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1
Xylenes, Total	3.8	1.2	0.11	mg/Kg	₩	09/27/23 10:40	09/27/23 18:24	1

Surrogate	%Recovery Qualifier	Limits	Prepared A	nalyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	79 - 124	09/27/23 10:40 09/2	7/23 18:24	1
4-Bromofluorobenzene (Surr)	106	66 - 129	09/27/23 10:40 09/2	7/23 18:24	1
Dibromofluoromethane (Surr)	103	80 - 120	09/27/23 10:40 09/2	7/23 18:24	1
Toluene-d8 (Surr)	100	80 - 120	09/27/23 10:40 09/2	7/23 18:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Gasoline	120		10	3.7	mg/Kg	Ţ.	-	09/27/23 10:40	09/27/23 18:24	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 106 41.5 - 162 09/27/23 10:40 09/27/23 18:24

Client Sample ID: B-11 (40-41.5)

Lab Sample ID: 590-21723-45 Date Collected: 09/14/23 15:35 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 80.5

Method: SW846 8260D - Volatile	Organic (Compounds	by GC/MS
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.045	0.023	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 18:46	1
Ethylbenzene	ND		0.23	0.037	mg/Kg	☼	09/27/23 10:40	09/27/23 18:46	1
m,p-Xylene	ND		0.91	0.065	mg/Kg	☼	09/27/23 10:40	09/27/23 18:46	1
o-Xylene	ND		0.45	0.052	mg/Kg	₩	09/27/23 10:40	09/27/23 18:46	1
Toluene	0.039	J	0.23	0.030	mg/Kg	☼	09/27/23 10:40	09/27/23 18:46	1
Naphthalene	ND		0.45	0.064	mg/Kg	☼	09/27/23 10:40	09/27/23 18:46	1
Xylenes, Total	ND		1.4	0.12	mg/Kg	₽	09/27/23 10:40	09/27/23 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		79 - 124	09/27/23 10:40	09/27/23 18:46	1
4-Bromofluorobenzene (Surr)	100		66 - 129	09/27/23 10:40	09/27/23 18:46	1
Dibromofluoromethane (Surr)	101		80 - 120	09/27/23 10:40	09/27/23 18:46	1
Toluene-d8 (Surr)	98		80 - 120	09/27/23 10:40	09/27/23 18:46	1

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-11 (40-41.5)

Date Collected: 09/14/23 15:35

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-45

Matrix: Solid

Percent Solids: 80.5

Method: NWTPH-Gx - Northwest	 Volatile Petroleum 	Products (GC/MS)
Analyte	Result Qualifier	RL	MDL Unit

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	5.1	J	11	4.1	mg/Kg	<u> </u>	09/27/23 10:40	09/27/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		41.5 - 162				09/27/23 10:40	09/27/23 18:46	1

Client Sample ID: B-10 (10-11.5)

Date Collected: 09/14/23 08:26 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-47

Matrix: Solid Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.056	0.028	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 19:08	1
Ethylbenzene	ND		0.28	0.045	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1
m,p-Xylene	ND		1.1	0.081	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1
o-Xylene	ND		0.56	0.065	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1
Toluene	ND		0.28	0.037	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1
Naphthalene	ND		0.56	0.079	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1
Xylenes, Total	ND		1.7	0.15	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		79 - 124	09/27/23 10:40	09/27/23 19:08	1
4-Bromofluorobenzene (Surr)	98		66 - 129	09/27/23 10:40	09/27/23 19:08	1
Dibromofluoromethane (Surr)	104		80 - 120	09/27/23 10:40	09/27/23 19:08	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 19:08	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		14	5.1	mg/Kg	₩	09/27/23 10:40	09/27/23 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		41.5 - 162	09/27/23 10:40 09/27/23 19:0	8 1

Client Sample ID: B-10 (25-26.5)

Date Collected: 09/14/23 08:44

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-51 **Matrix: Solid**

Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.051	0.025	mg/Kg	₽	09/27/23 10:40	09/27/23 19:51	1
Ethylbenzene	ND	0.25	0.041	mg/Kg	≎	09/27/23 10:40	09/27/23 19:51	1
m,p-Xylene	ND	1.0	0.073	mg/Kg	₩	09/27/23 10:40	09/27/23 19:51	1
o-Xylene	ND	0.51	0.058	mg/Kg	₽	09/27/23 10:40	09/27/23 19:51	1
Toluene	ND	0.25	0.034	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Naphthalene	ND	0.51	0.071	mg/Kg	☼	09/27/23 10:40	09/27/23 19:51	1
Xylenes, Total	ND	1.5	0.13	mg/Kg	≎	09/27/23 10:40	09/27/23 19:51	1

Surrogate	%Recovery C	Qualifier Limit	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	79 - 12	09/27/23 10:40	09/27/23 19:51	1
4-Bromofluorobenzene (Surr)	101	66 - 12	9 09/27/23 10:40	09/27/23 19:51	1
Dibromofluoromethane (Surr)	103	80 - 12	20 09/27/23 10:40	09/27/23 19:51	1
Toluene-d8 (Surr)	97	80 - 1	20 09/27/23 10:40	09/27/23 19:51	1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-10 (25-26.5)

Date Collected: 09/14/23 08:44 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-51

Matrix: Solid

Dil Fac

Job ID: 590-21723-1

Percent Solids: 93.2

Method: NWTPH-Gx - Northwe	st - Volatile	Petroleur	n Products (0	GC/MS)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline	ND		13	4.6	mg/Kg	*	09/27/23 10:40	09/27/23 19:51
	a							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 41.5 - 162 09/27/23 10:40 09/27/23 19:51 101

Client Sample ID: B-10 (32.5-34)

Date Collected: 09/14/23 09:00 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-54

Matrix: Solid Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 0.0095 mg/Kg Benzene ND 0.019 09/27/23 10:40 09/27/23 20:13 Ethylbenzene ND 0.095 0.015 mg/Kg 09/27/23 10:40 09/27/23 20:13 m,p-Xylene ND 0.027 mg/Kg © 09/27/23 10:40 09/27/23 20:13 0.38 o-Xylene ND © 09/27/23 10:40 09/27/23 20:13 0.19 0.022 mg/Kg ND Toluene 0.095 0.013 mg/Kg © 09/27/23 10:40 09/27/23 20:13 Naphthalene ND 0.027 mg/Kg 0.19 09/27/23 10:40 09/27/23 20:13 Xylenes, Total ND 0.57 0.049 mg/Kg © 09/27/23 10:40 09/27/23 20:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124	09/27/23 10:40	09/27/23 20:13	1
4-Bromofluorobenzene (Surr)	97		66 - 129	09/27/23 10:40	09/27/23 20:13	1
Dibromofluoromethane (Surr)	101		80 - 120	09/27/23 10:40	09/27/23 20:13	1
Toluene-d8 (Surr)	96		80 - 120	09/27/23 10:40	09/27/23 20:13	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) Result Qualifier Analyte RL **MDL** Unit Dil Fac **Prepared** Analyzed Gasoline ND 4.8 1.7 mg/Kg 09/27/23 10:40 09/27/23 20:13 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 41.5 - 162 09/27/23 10:40 09/27/23 20:13

Client Sample ID: B-10 (40-41.5)

Date Collected: 09/14/23 09:25 Date Received: 09/18/23 09:23

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 590-21723-56 **Matrix: Solid** Percent Solids: 83.9

09/27/23 10:40 09/27/23 20:35

09/27/23 10:40 09/27/23 20:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.034	0.017	mg/Kg	₽	09/27/23 10:40	09/27/23 20:35	1
Ethylbenzene	ND		0.17	0.028	mg/Kg	₩	09/27/23 10:40	09/27/23 20:35	1
m,p-Xylene	ND		0.69	0.049	mg/Kg	☼	09/27/23 10:40	09/27/23 20:35	1
o-Xylene	ND		0.34	0.039	mg/Kg	₩	09/27/23 10:40	09/27/23 20:35	1
Toluene	ND		0.17	0.023	mg/Kg	☼	09/27/23 10:40	09/27/23 20:35	1
Naphthalene	ND		0.34	0.048	mg/Kg	☼	09/27/23 10:40	09/27/23 20:35	1
Xylenes, Total	ND		1.0	0.089	mg/Kg	☼	09/27/23 10:40	09/27/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				09/27/23 10:40	09/27/23 20:35	1
4-Bromofluorobenzene (Surr)	101		66 - 129				09/27/23 10:40	09/27/23 20:35	1

Eurofins Spokane

80 - 120

80 - 120

105

97

Client Sample ID: B-10 (40-41.5)

Date Collected: 09/14/23 09:25

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-56

Matrix: Solid

Percent Solids: 83.9

Job ID: 590-21723-1

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products	(GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		8.6	3.1	mg/Kg		09/27/23 10:40	09/27/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162				09/27/23 10:40	09/27/23 20:35	1

Client Sample ID: B-8 (12.5-14)

Date Collected: 09/13/23 12:40 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-62 **Matrix: Solid**

Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.051	0.026	mg/Kg	☼	09/27/23 10:40	09/27/23 20:57	1
Ethylbenzene	ND		0.26	0.041	mg/Kg	≎	09/27/23 10:40	09/27/23 20:57	1
m,p-Xylene	ND		1.0	0.073	mg/Kg	☼	09/27/23 10:40	09/27/23 20:57	1
o-Xylene	ND		0.51	0.059	mg/Kg	☼	09/27/23 10:40	09/27/23 20:57	1
Toluene	ND		0.26	0.034	mg/Kg	≎	09/27/23 10:40	09/27/23 20:57	1
Naphthalene	ND		0.51	0.072	mg/Kg	≎	09/27/23 10:40	09/27/23 20:57	1
Xylenes, Total	ND		1.5	0.13	mg/Kg	≎	09/27/23 10:40	09/27/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124				09/27/23 10:40	09/27/23 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124	09/27/23 10:40	09/27/23 20:57	1
4-Bromofluorobenzene (Surr)	98		66 - 129	09/27/23 10:40	09/27/23 20:57	1
Dibromofluoromethane (Surr)	102		80 - 120	09/27/23 10:40	09/27/23 20:57	1
Toluene-d8 (Surr)	97		80 - 120	09/27/23 10:40	09/27/23 20:57	1

Method: NWTPH-Gx - Northy	vest - Volatile	e Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		13	4.6	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		41.5 - 162				09/27/23 10:40	09/27/23 20:57	

Client Sample ID: B-8 (25-26.5)

Date Collected: 09/13/23 13:20 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-67 **Matrix: Solid**

Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	0.024	mg/Kg	₩	09/27/23 10:40	09/27/23 21:18	1
Ethylbenzene	ND		0.24	0.039	mg/Kg	☆	09/27/23 10:40	09/27/23 21:18	1
m,p-Xylene	ND		0.97	0.069	mg/Kg	☆	09/27/23 10:40	09/27/23 21:18	1
o-Xylene	ND		0.48	0.056	mg/Kg	☆	09/27/23 10:40	09/27/23 21:18	1
Toluene	ND		0.24	0.032	mg/Kg	☆	09/27/23 10:40	09/27/23 21:18	1
Naphthalene	ND		0.48	0.068	mg/Kg	☆	09/27/23 10:40	09/27/23 21:18	1
Xylenes, Total	ND		1.5	0.12	mg/Kg	₽	09/27/23 10:40	09/27/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
1,2-Dichloroethane-d4 (Surr)	95		79 - 124	09/27/23 10:40	09/27/23 21:18	1
4-Bromofluorobenzene (Surr)	102		66 - 129	09/27/23 10:40	09/27/23 21:18	1
Dibromofluoromethane (Surr)	105		80 - 120	09/27/23 10:40	09/27/23 21:18	1
Toluene-d8 (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 21:18	1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-8 (25-26.5)

Date Collected: 09/13/23 13:20

Date Collected: 09/13/23 13:20 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-67

Matrix: Solid

Dil Fac

Dil Fac

Percent Solids: 96.0

Job ID: 590-21723-1

Method: NWTPH-Gx	- Northwest - Volatile	e Petroleur	m Products (GC/MS)				
Analyte	Result	Qualifier	ualifier RL		Unit	D	Prepared	Analyzed
Gasoline	ND		12	4.4	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 21:18
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed

41.5 - 162

102

Client Sample ID: B-8 (37.5-39)

Date Collected: 09/13/23 13:45 Date Received: 09/18/23 09:23

4-Bromofluorobenzene (Surr)

Lab Sample ID: 590-21723-72

09/27/23 10:40 09/27/23 21:18

Matrix: Solid Percent Solids: 87.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Benzene ND 0.043 0.021 mg/Kg 09/27/23 10:40 09/27/23 21:40 Ethylbenzene ND 0.21 0.035 mg/Kg 09/27/23 10:40 09/27/23 21:40 m,p-Xylene ND 0.85 0.061 mg/Kg © 09/27/23 10:40 09/27/23 21:40 o-Xylene ND 0.049 mg/Kg © 09/27/23 10:40 09/27/23 21:40 0.43 ND Toluene 0.21 0.028 mg/Kg © 09/27/23 10:40 09/27/23 21:40 0.43 0.060 mg/Kg © 09/27/23 10:40 09/27/23 21:40 **Naphthalene** 0.11 J Xylenes, Total ND 1.3 0.11 mg/Kg © 09/27/23 10:40 09/27/23 21:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		79 - 124	09/27/23 10:40	09/27/23 21:40	1
4-Bromofluorobenzene (Surr)	100		66 - 129	09/27/23 10:40	09/27/23 21:40	1
Dibromofluoromethane (Surr)	92		80 - 120	09/27/23 10:40	09/27/23 21:40	1
Toluene-d8 (Surr)	99		80 - 120	09/27/23 10:40	09/27/23 21:40	1

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	650		11	3.8	mg/Kg	<u></u>	09/27/23 10:40	09/27/23 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Bromofluorohenzene (Surr)	100		11 5 162				00/27/23 10:40	00/27/23 21:40	1

Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-73

Matrix: Solid

Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	-	0.033	0.017	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
Ethylbenzene	ND		0.17	0.027	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
m,p-Xylene	ND		0.67	0.048	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
o-Xylene	ND		0.33	0.038	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
Toluene	0.057	J	0.17	0.022	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
Naphthalene	ND		0.33	0.047	mg/Kg	☼	09/27/23 10:40	09/27/23 22:02	1
Xylenes, Total	ND		1.0	0.086	mg/Kg	≎	09/27/23 10:40	09/27/23 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		79 - 124				09/27/23 10:40	09/27/23 22:02	1

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
	1,2-Dichloroethane-d4 (Surr)	93		79 - 124	09/27/23 10:40	09/27/23 22:02	1
	4-Bromofluorobenzene (Surr)	96		66 - 129	09/27/23 10:40	09/27/23 22:02	1
	Dibromofluoromethane (Surr)	96		80 - 120	09/27/23 10:40	09/27/23 22:02	1
İ	Toluene-d8 (Surr)	98		80 - 120	09/27/23 10:40	09/27/23 22:02	1

Client: GeoEngineers Inc Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-73

Matrix: Solid Percent Solids: 87.5

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte		ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	110	8.3	3.0	mg/Kg	☆	09/27/23 10:40	09/27/23 22:02	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	41.5 - 162	09/27/23 10:40 09/27/23 22:02	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000	410	120	mg/Kg	<u></u>	09/27/23 10:57	09/27/23 21:15	5
Iron	7900	410	180	mg/Kg	☼	09/27/23 10:57	09/27/23 21:15	5
Magnesium	7800	200	36	mg/Kg	₩	09/27/23 10:57	09/27/23 21:15	5
Manganese	170	61	4.2	mg/Kg	⊅	09/27/23 10:57	09/27/23 21:15	5
Potassium	520	100	51	mg/Kg	☼	09/27/23 10:57	09/27/23 21:15	5
Sodium	92 J	100	42	mg/Kg	₩	09/27/23 10:57	09/27/23 21:15	5

General Chemistry

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Organic Carbon - Average	5200	2000	97	mg/Kg			10/05/23 22:10	1	
Dup (SW846 9060A)									

Client Sample ID: B-9 (37.5-39)

Lab Sample ID: 590-21723-74 Date Collected: 09/13/23 15:20 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 90.1

Method: SW846 8260D -	Volatile Organic Compounds I	by GC/MS
	D If . O If C	Б.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	0.043	0.021	mg/Kg	₩	09/27/23 15:18	09/28/23 01:38	1
Ethylbenzene	ND	Н	0.21	0.035	mg/Kg	☼	09/27/23 15:18	09/28/23 01:38	1
m,p-Xylene	ND	Н	0.86	0.062	mg/Kg	☆	09/27/23 15:18	09/28/23 01:38	1
o-Xylene	ND	Н	0.43	0.049	mg/Kg	⊅	09/27/23 15:18	09/28/23 01:38	1
Toluene	ND	Н	0.21	0.029	mg/Kg	☼	09/27/23 15:18	09/28/23 01:38	1
Naphthalene	ND	Н	0.43	0.060	mg/Kg	☼	09/27/23 15:18	09/28/23 01:38	1
Xylenes, Total	ND	Н	1.3	0.11	mg/Kg	₽	09/27/23 15:18	09/28/23 01:38	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	79 - 124	09/27/23 15:18	09/28/23 01:38	1
4-Bromofluorobenzene (Surr)	99	66 - 129	09/27/23 15:18	09/28/23 01:38	1
Dibromofluoromethane (Surr)	103	80 - 120	09/27/23 15:18	09/28/23 01:38	1
Toluene-d8 (Surr)	96	80 - 120	09/27/23 15:18	09/28/23 01:38	1

1				
ı	Method: NWTPH-Gx - N	orthweet Volatile	Potroloum Produc	to (CC/MS)
ı	Melliou. NW FR-GX - N	Offilwest - voiatile	retroleum Froduc	15 (46/18/3

Analyte	Result	Qualitier	KL	MDL	Unit	D	Prepared	Anaiyzed	DII Fac
Gasoline	34	Н	11	3.9	mg/Kg	₽	09/27/23 15:18	09/28/23 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate		Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		41.5 - 162	09/27/23 15:18	09/28/23 01:38	1

Client Sample Results

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-9 (40-41.5)

Lab Sample ID: 590-21723-75

Date Collected: 09/13/23 15:50 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND	Н	0.046	0.023	mg/Kg	<u></u>	09/27/23 15:18	09/28/23 02:00	
Ethylbenzene	ND	Н	0.23	0.038	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	
n,p-Xylene	ND	Н	0.93	0.067	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	
o-Xylene	ND	Н	0.46	0.053	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	
Toluene	0.28	H	0.23	0.031	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	
Naphthalene	ND	Н	0.46	0.065	mg/Kg	☼	09/27/23 15:18	09/28/23 02:00	
Kylenes, Total	ND	Н	1.4	0.12	mg/Kg	₩	09/27/23 15:18	09/28/23 02:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
,2-Dichloroethane-d4 (Surr)	95		79 - 124				09/27/23 15:18	09/28/23 02:00	
1-Bromofluorobenzene (Surr)	91		66 - 129				09/27/23 15:18	09/28/23 02:00	
Dibromofluoromethane (Surr)	103		80 - 120				09/27/23 15:18	09/28/23 02:00	
Method: NWTPH-Gx - North		Petroleu Qualifier	80 - 120 m Products (RL		Unit	D	09/27/23 15:18 Prepared	09/28/23 02:00 Analyzed	Dil Fa
Method: NWTPH-Gx - North	nwest - Volatile	Qualifier	m Products (MDĹ	Unit mg/Kg	<u>D</u>			Dil Fa
Method: NWTPH-Gx - North Analyte Gasoline	nwest - Volatile Result	Qualifier J H	m Products (MDĹ			Prepared	Analyzed	Dil Fa
Method: NWTPH-Gx - North Analyte Gasoline Surrogate	nwest - Volatile Result	Qualifier J H	m Products (MDĹ			Prepared 09/27/23 15:18	Analyzed 09/28/23 02:00 Analyzed	
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	nwest - Volatile Result 11 %Recovery 91	Qualifier J H	m Products (MDĹ			Prepared 09/27/23 15:18	Analyzed 09/28/23 02:00 Analyzed	
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me	nwest - Volatile Result 11 %Recovery 91 etals (ICP)	Qualifier J H	m Products (MDL 4.2	mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed	
Method: NWTPH-Gx - North Analyte Gasoline Surrogate I-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte	nwest - Volatile Result 11 %Recovery 91 etals (ICP)	Qualifier J H Qualifier	m Products (4 RL 12 12 12 12 14 1.5 - 162	MDL 4.2	mg/Kg Unit	<u> </u>	Prepared 09/27/23 15:18 Prepared 09/27/23 15:18	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate I-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium	Result 11 %Recovery 91 etals (ICP) Result	Qualifier J H Qualifier	m Products (4 RL 12 Limits 41.5 - 162 RL	MDL 4.2 MDL 120	mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium ron	nwest - Volatile Result 11 %Recovery 91 stals (ICP) Result 13000	Qualifier J H Qualifier	m Products (4 RL 12 Limits 41.5 - 162 RL 400	MDL 4.2 MDL 120 170 36	Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium ron Magnesium Manganese	### Newst - Volatile Result	Qualifier J H Qualifier	m Products (1 RL 12 Limits 41.5 - 162 RL 400 400 200 61	MDL 4.2 MDL 120 170 36 4.2	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium ron Magnesium Manganese	### Newst - Volatile Result	Qualifier J H Qualifier	m Products (19 RL 12 12 14.5 - 162 162 160 160 160 160 160 160 160 160 160 160	MDL 4.2 MDL 120 170 36 4.2	Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium ron Magnesium Manganese Potassium	### Newst - Volatile Result	Qualifier J H Qualifier Qualifier	m Products (1 RL 12 Limits 41.5 - 162 RL 400 400 200 61	MDL 4.2 MDL 120 170 36 4.2 50	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32	Dil F
Method: NWTPH-Gx - North Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 6010D - Me Analyte Calcium Iron Magnesium Manganese Potassium Sodium General Chemistry	### Result 11 ### Recovery 91	Qualifier J H Qualifier Qualifier	m Products (4 RL 12 Limits 41.5 - 162 RL 400 400 200 61 100	MDL 4.2 MDL 120 170 36 4.2 50	mg/Kg Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 09/27/23 15:18 Prepared 09/27/23 15:18 Prepared 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57 09/27/23 10:57	Analyzed 09/28/23 02:00 Analyzed 09/28/23 02:00 Analyzed 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32 09/27/23 21:32	Dil F

10/6/2023

Job ID: 590-21723-1 Project/Site: Kwik Stop/0504-05-07

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-43562/6

Matrix: Water

Analysis Batch: 43562

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Benzene ND 0.40 0.093 ug/L 09/19/23 17:36 Ethylbenzene ND 1.0 0.20 ug/L 09/19/23 17:36 m,p-Xylene ND 2.0 0.28 ug/L 09/19/23 17:36 Naphthalene 0.666 J 2.0 0.63 ug/L 09/19/23 17:36 o-Xylene ND 1.0 0.16 ug/L 09/19/23 17:36 Toluene ND 1.0 0.31 ug/L 09/19/23 17:36 Xylenes, Total ND 3.0 0.44 ug/L 09/19/23 17:36

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	80 - 120		09/19/23 17:36	1
4-Bromofluorobenzene (Surr)	107	76 - 120		09/19/23 17:36	1
Dibromofluoromethane (Surr)	93	80 - 123		09/19/23 17:36	1
Toluene-d8 (Surr)	104	80 - 120		09/19/23 17:36	1

Lab Sample ID: LCS 590-43562/1003

Matrix: Water

Analysis Batch: 43562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	10.0	9.97	ug/L		100	80 - 120	
Ethylbenzene	10.0	9.75	ug/L		98	80 - 122	
m,p-Xylene	10.0	9.11	ug/L		91	80 - 125	
Naphthalene	10.0	9.38	ug/L		94	61 - 140	
o-Xylene	10.0	8.80	ug/L		88	80 - 130	
Toluene	10.0	9.87	ug/L		99	80 - 129	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		80 - 120
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane (Surr)	87		80 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-43562/4

Matrix: Water

Analysis Batch: 43562

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	10.0	10.5		ug/L		105	80 - 120	5	15
Ethylbenzene	10.0	11.0		ug/L		110	80 - 122	12	35
m,p-Xylene	10.0	10.5		ug/L		105	80 - 125	14	35
Naphthalene	10.0	11.3		ug/L		113	61 - 140	19	25
o-Xylene	10.0	10.1		ug/L		101	80 - 130	14	35
Toluene	10.0	11.1		ug/L		111	80 - 129	12	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 120
4-Bromofluorobenzene (Surr)	105		76 - 120

Eurofins Spokane

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Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Lab Sample ID: LCSD 590-43562/4

Matrix: Water

Analysis Batch: 43562

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	90		80 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 590-43741/1-A **Client Sample ID: Method Blank Matrix: Solid**

Analysis Batch: 43751

Prep Type: Total/NA

Prep Batch: 43741

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene ND 0.020 0.010 mg/Kg 09/27/23 10:40 09/27/23 12:17 Ethylbenzene ND 0.10 0.016 mg/Kg 09/27/23 10:40 09/27/23 12:17 m,p-Xylene ND 0.40 0.029 mg/Kg 09/27/23 10:40 09/27/23 12:17 Naphthalene ND 0.20 0.028 mg/Kg 09/27/23 10:40 09/27/23 12:17 o-Xylene ND 0.20 0.023 mg/Kg 09/27/23 10:40 09/27/23 12:17 Toluene ND 0.10 0.013 mg/Kg 09/27/23 10:40 09/27/23 12:17 Xylenes, Total ND 0.60 0.052 mg/Kg 09/27/23 10:40 09/27/23 12:17

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		79 - 124	09/27/23 10:40	09/27/23 12:17	1
4-Bromofluorobenzene (Surr)	102		66 - 129	09/27/23 10:40	09/27/23 12:17	1
Dibromofluoromethane (Surr)	105		80 - 120	09/27/23 10:40	09/27/23 12:17	1
Toluene-d8 (Surr)	100		80 - 120	09/27/23 10:40	09/27/23 12:17	1

Lab Sample ID: LCS 590-43741/2-A

Matrix: Solid

Analysis Batch: 43751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43741

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.500	0.509		mg/Kg		102	80 - 128	
Ethylbenzene	0.500	0.513		mg/Kg		103	80 - 127	
m,p-Xylene	0.500	0.522		mg/Kg		104	80 - 131	
Naphthalene	0.500	0.504		mg/Kg		101	57 - 131	
o-Xylene	0.500	0.522		mg/Kg		104	78 - 128	
Toluene	0.500	0.508		mg/Kg		102	79 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		79 - 124
4-Bromofluorobenzene (Surr)	103		66 - 129
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 590-21723-7 MS

Matrix: Solid

Analysis Batch: 43751

Client Sample ID: B-12 (17.5-19)
Prep Type: Total/NA

Prep Batch: 43741

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		1.29	1.33		mg/Kg	₩	103	80 - 128	
Ethylbenzene	ND		1.29	1.36		mg/Kg	≎	106	80 - 127	
m,p-Xylene	ND		1.29	1.39		mg/Kg	₩	108	80 - 131	

Eurofins Spokane

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Prep Type: Total/NA

Project/Site: Kwik Stop/0504-05-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-21723-7 MS Client Sample ID: B-12 (17.5-19)

1.29

Matrix: Solid

Analyte

o-Xylene

Toluene

Naphthalene

Analysis Batch: 43751

Client: GeoEngineers Inc

Prep Batch: 43741 MS MS %Rec Sample Sample Spike **Result Qualifier** Added Result Qualifier Unit D %Rec Limits ND 1.29 1.29 mg/Kg 100 57 - 131 Ö ND 1.29 1.39 mg/Kg ☼ 108 78 - 128

mg/Kg

1.32

MS MS

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		79 - 124
4-Bromofluorobenzene (Surr)	103		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 590-21723-7 MSD

Matrix: Solid

Analysis Batch: 43751

Client Sample ID: B-12 (17.5-19)

79 - 130

103

₩

Prep Type: Total/NA

Prep Batch: 43741

Prep Batch: 43741

Analysis Buton, 40701									I ICP L	Juton	TO 1 T 1
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		1.29	1.31		mg/Kg	₩	102	80 - 128	1	17
Ethylbenzene	ND		1.29	1.35		mg/Kg	☆	105	80 - 127	1	19
m,p-Xylene	ND		1.29	1.37		mg/Kg	₩	106	80 - 131	2	19
Naphthalene	ND		1.29	1.23		mg/Kg	☆	96	57 - 131	4	34
o-Xylene	ND		1.29	1.39		mg/Kg	₩	108	78 - 128	0	19
Toluene	ND		1.29	1.30		mg/Kg	☆	101	79 - 130	2	21

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	104		66 - 129
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 590-21723-2 DU **Client Sample ID: B-12 (5-6.5)** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 43751

	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Benzene	ND		ND		mg/Kg	— * — — —	NC	17	
Ethylbenzene	ND		ND		mg/Kg	₩	NC	19	
m,p-Xylene	ND		ND		mg/Kg	₩	NC	19	
Naphthalene	0.19	J	0.122	J F5	mg/Kg		46	34	
o-Xylene	ND		ND		mg/Kg	₩	NC	19	
Toluene	0.073	J	0.0739	J	mg/Kg	₩	0.7	21	
Xylenes, Total	ND		ND		mg/Kg		NC	25	

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		79 - 124
4-Bromofluorobenzene (Surr)	109		66 - 129
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Eurofins Spokane

10/6/2023

Project/Site: Kwik Stop/0504-05-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-43762/1-A

Matrix: Solid

Analysis Batch: 43765

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 43762

Job ID: 590-21723-1

	MB I	МВ							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	0.010	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Naphthalene	ND		0.20	0.028	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
o-Xylene	ND		0.20	0.023	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Toluene	ND		0.10	0.013	mg/Kg		09/27/23 15:18	09/28/23 00:33	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		09/27/23 15:18	09/28/23 00:33	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	79 - 124	09/27/23 15:18	09/28/23 00:33	1
4-Bromofluorobenzene (Surr)	98	66 - 129	09/27/23 15:18	09/28/23 00:33	1
Dibromofluoromethane (Surr)	105	80 - 120	09/27/23 15:18	09/28/23 00:33	1
Toluene-d8 (Surr)	99	80 - 120	09/27/23 15:18	09/28/23 00:33	1

Lab Sample ID: LCS 590-43762/2-A

Matrix: Solid

Analysis Batch: 43765

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 43762

	Spike	LUS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	0.500	0.525	mg/K	 .g	105	80 - 128	
Ethylbenzene	0.500	0.536	mg/K	(g	107	80 - 127	
m,p-Xylene	0.500	0.539	mg/K	(g	108	80 - 131	
Naphthalene	0.500	0.527	mg/K	(g	105	57 - 131	
o-Xylene	0.500	0.543	mg/K	.g	109	78 - 128	
Toluene	0.500	0.534	mg/K	.g	107	79 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	100		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 590-43783/1-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43783

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	0.010	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Naphthalene	ND		0.20	0.028	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
o-Xylene	ND		0.20	0.023	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Toluene	ND		0.10	0.013	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		09/28/23 13:29	09/28/23 15:14	1
	MR	MR							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 09/28/23 13:29 09/28/23 15:14 98 79 - 124

Eurofins Spokane

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Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-43783/1-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43783

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		66 - 129	09/28/23 13:29	09/28/23 15:14	1
Dibromofluoromethane (Surr)	104		80 - 120	09/28/23 13:29	09/28/23 15:14	1
Toluene-d8 (Surr)	100		80 - 120	09/28/23 13:29	09/28/23 15:14	1

Lab Sample ID: LCS 590-43783/2-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 43783

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.500	0.509		mg/Kg		102	80 - 128	
Ethylbenzene	0.500	0.525		mg/Kg		105	80 - 127	
m,p-Xylene	0.500	0.528		mg/Kg		106	80 - 131	
Naphthalene	0.500	0.454		mg/Kg		91	57 - 131	
o-Xylene	0.500	0.531		mg/Kg		106	78 - 128	
Toluene	0.500	0.517		mg/Kg		103	79 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	99		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-43783/3-A

Matrix: Solid

Analysis Batch: 43781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43783

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.500	0.485		mg/Kg		97	80 - 128	5	17
Ethylbenzene	0.500	0.494		mg/Kg		99	80 - 127	6	19
m,p-Xylene	0.500	0.500		mg/Kg		100	80 - 131	5	19
Naphthalene	0.500	0.452		mg/Kg		90	57 - 131	0	34
o-Xylene	0.500	0.512		mg/Kg		102	78 - 128	4	19
Toluene	0.500	0.482		mg/Kg		96	79 - 130	7	21

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		79 - 124
4-Bromofluorobenzene (Surr)	98		66 - 129
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-43561/6

Matrix: Water

Analysis Batch: 43561

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline
 45.5
 J
 150
 31
 ug/L
 09/19/23 17:36
 1

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4

5

__

8

10

4.0

12

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 590-43561/6 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43561

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 09/19/23 17:36 4-Bromofluorobenzene (Surr) 107 68.7 - 141

Lab Sample ID: LCS 590-43561/1005 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43561

Spike LCS LCS %Rec Added Limits **Analyte** Result Qualifier Unit %Rec 1000 Gasoline 1090 ug/L 109 80 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 68.7 - 141 103

Lab Sample ID: LCSD 590-43561/1016

Matrix: Water

Analysis Batch: 43561

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline 1000 1050 105 ug/L 80 - 120 20

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 108 68.7 - 141

Client Sample ID: Method Blank Lab Sample ID: MB 590-43696/7 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43696

MR MR

Analyte Qualifier RL **MDL** Unit Analyzed Result Prepared Dil Fac Gasoline 150 31 ug/L 09/25/23 22:35 ND

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 68.7 - 141 09/25/23 22:35 4-Bromofluorobenzene (Surr) 104

Lab Sample ID: LCS 590-43696/1006

Matrix: Water

Analysis Batch: 43696

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline 1000 810 ug/L 81 80 - 120

LCS LCS

%Recovery Surrogate Qualifier Limits 68.7 - 141 4-Bromofluorobenzene (Surr) 104

Prep Type: Total/NA

Project/Site: Kwik Stop/0504-05-07

Lab Sample ID: LCSD 590-43696/1015

Job ID: 590-21723-1

Prep Type: Total/NA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 43696

RPD Spike LCSD LCSD %Rec Result Qualifier Added Unit %Rec Limits RPD Limit Analyte Gasoline 1000 867 ug/L 87 80 - 120 20

LCSD LCSD

%Recovery Surrogate Qualifier Limits 68.7 - 141 4-Bromofluorobenzene (Surr) 98

Lab Sample ID: MB 590-43741/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 43750

Prep Type: Total/NA

Prep Batch: 43741

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Gasoline ND 5.0 1.8 mg/Kg 09/27/23 10:40 09/27/23 12:17

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 09/27/23 10:40 09/27/23 12:17 102 41.5 - 162

Lab Sample ID: LCS 590-43741/3-A

Matrix: Solid

Analysis Batch: 43750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 43741

Spike LCS LCS %Rec

%Rec Analyte Added Result Qualifier Unit Limits Gasoline 50.0 47.5 mg/Kg 74.4 - 124

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 101 41.5 - 162

Lab Sample ID: 590-21723-2 DU **Matrix: Solid**

Analysis Batch: 43750

Client Sample ID: B-12 (5-6.5)

Prep Type: Total/NA

Prep Batch: 43741 **RPD**

Sample Sample DU DU Result Qualifier RPD Analyte Result Qualifier Unit D Limit Gasoline 400 371 mg/Kg 32.3

DU DU

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 41.5 - 162 109

Lab Sample ID: MB 590-43762/1-A

Matrix: Solid

Analysis Batch: 43764

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 43762

MB MB

Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 09/27/23 15:18 09/28/23 00:33 Gasoline ND 5.0 1.8 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 98 41.5 - 162 09/27/23 15:18 09/28/23 00:33 4-Bromofluorobenzene (Surr)

Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 590-43762/3-A

Matrix: Solid

Analysis Batch: 43764

Prep Type: Total/NA Prep Batch: 43762 Spike LCS LCS

Result Qualifier Added Limits Analyte Unit %Rec Gasoline 50.0 45.7 mg/Kg 91 74.4 - 124

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 41.5 - 162

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-627040/5 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 627040

MB MB

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Methane ND 5.0 0.63 ug/L 09/21/23 21:03

Lab Sample ID: LCS 280-627040/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627040

LCS LCS %Rec Spike Added Analyte Result Qualifier Unit %Rec Limits Methane 65.7 69.8 ug/L 106 75 - 125

Lab Sample ID: LCSD 280-627040/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 627040

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Methane 65.7 70.7 ug/L 108 75 - 125 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-43549/1003 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 43549

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 0.20 Nitrate as N ND 0.057 mg/L 09/19/23 12:31

Lab Sample ID: LCS 590-43549/1004 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 43549

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 5.00 90 - 110 Nitrate as N 5.10 mg/L 102

Lab Sample ID: MB 590-43550/1003 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 43550

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Sulfate $\overline{\mathsf{ND}}$ 0.50 09/19/23 12:31 0.13 mg/L

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Prep Type: Total/NA

Project/Site: Kwik Stop/0504-05-07

Job ID: 590-21723-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 590-43550/1004

Matrix: Water

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analysis Batch: 43550

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D Sulfate 12.5 12.7 mg/L 101 90 - 110

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-438669/26-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 438895

MB MB

Prep Type: Total/NA

Prep Batch: 438669

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.10 $\overline{\mathsf{ND}}$ 0.013 mg/L 09/25/23 16:28 09/27/23 02:17 Iron 0.00046 mg/L ND 0.0020 09/25/23 16:28 09/27/23 02:17 Manganese

Lab Sample ID: LCS 580-438669/27-A

Matrix: Water

Analysis Batch: 438895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 438669

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Iron 20.0 18.4 mg/L 92 85 - 115 1.00 0.910 mg/L 91 85 - 115 Manganese

Lab Sample ID: LCSD 580-438669/28-A

Matrix: Water

Analysis Batch: 438895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 438669

LCSD LCSD %Rec **RPD** Spike Added Limits **RPD Analyte** Result Qualifier Unit %Rec Limit D Iron 20.0 18.0 mg/L 90 85 - 115 20 Manganese 1.00 0.903 mg/L 90 85 - 115

Lab Sample ID: MB 580-438128/1-B

Matrix: Water

Analysis Batch: 438541

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 438340

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.10 $\overline{\mathsf{ND}}$ 0.013 mg/L 09/21/23 17:58 09/22/23 14:37 Iron Manganese ND 0.0020 0.00046 mg/L 09/21/23 17:58 09/22/23 14:37

Lab Sample ID: LCS 580-438128/2-B

Matrix: Water

Analysis Batch: 438541

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 438340

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Iron 20.0 21.3 mg/L 107 85 - 115 1.00 1.04 mg/L 104 85 - 115 Manganese

Lab Sample ID: LCSD 580-438128/3-B

Matrix: Water

Analyte

Iron

Analysis Batch: 438541

Prep Type: Dissolved Prep Batch: 438340 LCSD LCSD %Rec **RPD** Spike Limits Added Result Qualifier Unit %Rec **RPD** Limit 20.0 21.5 mg/L 107 85 - 115 20

Project/Site: Kwik Stop/0504-05-07

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-438128/3-B Client Sample ID: Lab Control Sample Dup **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 438541

Client: GeoEngineers Inc

Prep Batch: 438340 Spike LCSD LCSD **RPD** %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Manganese 1 00 1 04 mg/L 104 85 - 115 0

Lab Sample ID: 590-21723-29 MS Client Sample ID: MW-18:091523 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 438541

Prep Batch: 438340 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit 0.049 J 20.0 22.2 Iron mg/L 111 70 - 130 ND 1.00 1.10 Manganese mg/L 110 70 - 130

Lab Sample ID: 590-21723-29 MSD Client Sample ID: MW-18:091523 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 438541

Prep Batch: 438340 Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Iron 0.049 J 20.0 22.5 mg/L 112 70 - 130 20 ND 1.00 70 - 130 Manganese 1.10 mg/L 110 20

Lab Sample ID: 590-21723-29 DU Client Sample ID: MW-18:091523

Matrix: Water

Prep Type: Dissolved Analysis Batch: 438541 **Prep Batch: 438340** Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Unit RPD Limit Analyte Iron 0.049 J 0.0467 J 4 20 mg/L ND ND Manganese mg/L NC 20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-43745/2-A Client Sample ID: Method Blank

Matrix: Solid								Prep Type: 10	otal/NA
Analysis Batch: 43775								Prep Batch:	43745
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coloium	ND.		100	20	no ar /1/ ar		00/07/02 10:57	00/27/22 10:20	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		100	30	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Iron	ND		100	43	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Magnesium	ND		50	8.9	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Manganese	ND		15	1.0	mg/Kg		09/27/23 10:57	09/27/23 19:20	1
Potassium	ND		25	13	mg/Kg		09/27/23 10:57	09/27/23 19:20	1

Lab Sample ID: LCS 590-43745/1-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 43775** Prep Batch: 43745

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	2500	2610		mg/Kg	_	104	80 - 120	
Iron	500	488		mg/Kg		98	80 - 120	
Magnesium	2500	2450		mg/Kg		98	80 - 120	
Manganese	50.0	49.8		mg/Kg		100	80 - 120	
Potassium	2500	2610		mg/Kg		104	80 - 120	

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 590-43818/2-A

Matrix: Solid

Analysis Batch: 43833

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43818

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		100	30	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Iron	ND		100	43	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Magnesium	ND		50	8.9	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Manganese	ND		15	1.0	mg/Kg		09/29/23 14:01	09/29/23 15:35	1
Sodium	ND		25	10	mg/Kg		09/29/23 14:01	09/29/23 15:35	1

Lab Sample ID: MB 590-43818/2-A

Matrix: Solid

Analysis Batch: 43898

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** 25 13 mg/Kg 09/29/23 14:01 10/03/23 18:40 Potassium ND

Lab Sample ID: LCS 590-43818/1-A

Matrix: Solid

Analysis Batch: 43833

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 43818

Prep Type: Total/NA

Prep Batch: 43818

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	2500	2580		mg/Kg		103	80 - 120	
Iron	500	504		mg/Kg		101	80 - 120	
Magnesium	2500	2480		mg/Kg		99	80 - 120	
Manganese	50.0	50.8		mg/Kg		102	80 - 120	
Sodium	2500	2590		ma/Ka		104	80 - 120	

Lab Sample ID: LCS 590-43818/1-A

Matrix: Solid

Analyte

Potassium

Analysis Batch: 43898

Spike

2530

LCS LCS

Result Qualifier Unit mg/Kg

D %Rec 101 80 - 120

%Rec Limits

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 43818

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-440030/5

Matrix: Solid

Analysis Batch: 440030

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed Total Organic Carbon - Average Dup ND 2000 97 mg/Kg 10/05/23 21:44

Lab Sample ID: LCS 580-440030/6

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 440030

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit D %Rec Total Organic Carbon - Average 120000 120000 100 80 - 120 mg/Kg

Added

2500

Dup

Eurofins Spokane

Job ID: 590-21723-1

Prep Type: Total/NA

Prep Type: Total/NA

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Lab Sample ID: LCSD 580-440030/7

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 440030

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit Total Organic Carbon - Average 120000 120000 mg/Kg 100 80 - 120 0 20

Dup

Lab Sample ID: 590-21723-2 MS **Client Sample ID: B-12 (5-6.5)**

Matrix: Solid

Analysis Batch: 440030

MS MS %Rec Sample Sample Spike **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits 120000 Total Organic Carbon - Average 1500 J 117000 mg/Kg 97 75 - 125

Dup

Lab Sample ID: 590-21723-2 MSD **Client Sample ID: B-12 (5-6.5)** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 440030

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1500 J 120000 119000 75 - 125 Total Organic Carbon - Average mg/Kg 98 20

Lab Sample ID: 590-21723-2 DU **Client Sample ID: B-12 (5-6.5)** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 440030

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit **RPD** Limit Total Organic Carbon - Average 1500 J 1630 20 mg/Kg Dup

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 590-43814/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43814

MB MB Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 20 5.0 mg/L 5.00 J 09/28/23 15:05 Alkalinity

Lab Sample ID: LCS 590-43814/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 43814

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Alkalinity 501 495 mg/L 99 90 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 580-439425/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 439425

MB MB **MDL** Unit Result Qualifier RI Dil Fac Analyte Prepared Analyzed 1.5 09/29/23 14:18 **Total Organic Carbon** ND 0.38 mg/L

Eurofins Spokane

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 580-439425/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 439425 LCS LCS %Rec Spike

Added Analyte Result Qualifier Unit D %Rec Limits Total Organic Carbon 10.0 9.27 mg/L 93 85 - 115

Lab Sample ID: LCSD 580-439425/5 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 439425

LCSD LCSD RPD Spike %Rec Limits Added Result Qualifier Unit D %Rec RPD Limit Total Organic Carbon 10.0 9.45 95 85 - 115 2 mg/L

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-12 (5-6.5)

Date Collected: 09/14/23 10:35 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 21:52	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-12 (5-6.5)

Lab Sample ID: 59

Date Collected: 09/14/23 10:35 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-2 Matrix: Solid

Percent Solids: 81.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.529 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 14:05	JSP	EET SPK
Total/NA	Prep	5035			6.529 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 14:05	JSP	EET SPK
Total/NA	Prep	3050B			1.52 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43833	09/29/23 16:04	AMB	EET SPK
Total/NA	Prep	3050B			1.52 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43898	10/03/23 19:21	AMB	EET SPK

Client Sample ID: B-12 (17.5-19)

Date Collected: 09/14/23 11:10

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-12 (17.5-19)

Date Collected: 09/14/23 11:10

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-7

Lab Sample ID: 590-21723-15

Matrix: Solid Percent Solids: 93.2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.29 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 14:48	JSP	EET SPK
Total/NA	Prep	5035			4.29 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 14:48	JSP	EET SPK

Client Sample ID: B-12 (37.5-39)

Date Collected: 09/14/23 12:30

Date Received: 09/18/23 09:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Project/Site: Kwik Stop/0504-05-07

Client: GeoEngineers Inc

Client Sample ID: B-12 (37.5-39)

Date Collected: 09/14/23 12:30 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-15

Matrix: Solid

Percent Solids: 87.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.936 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 16:14	JSP	EET SPK
Total/NA	Prep	5035			5.936 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 16:14	JSP	EET SPK

Client Sample ID: B-12 (40-41.5)

Date Collected: 09/14/23 12:40

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-16

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-12 (40-41.5)

Date Collected: 09/14/23 12:40

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-16 **Matrix: Solid**

Percent Solids: 79.5

To	rep Type otal/NA otal/NA	Batch Type Prep Analysis	Batch Method 5035 8260D	Run	Dil Factor	Amount 5.417 g 0.86 mL	Final Amount 10 mL 43 mL	Batch Number 43741 43751	Prepared or Analyzed 09/27/23 10:40 09/27/23 16:35	 Lab EET SPK EET SPK
	otal/NA otal/NA	Prep Analysis	5035 NWTPH-Gx		1	5.417 g 0.86 mL	10 mL 43 mL	43741 43750	09/27/23 10:40 09/27/23 16:35	 EET SPK EET SPK

Client Sample ID: B-9 (12.5-14)

Date Collected: 09/13/23 14:40

Date Received: 09/18/23 09:23

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture					43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-9 (12.5-14)

Date Collected: 09/13/23 14:40

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-19

Lab Sample ID: 590-21723-23

Lab Sample ID: 590-21723-19

Matrix: Solid Percent Solids: 94.4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.447 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 16:57	JSP	EET SPK
Total/NA	Prep	5035			4.447 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 16:57	JSP	EET SPK

Client Sample ID: B-9 (27.5-29)

Date Collected: 09/13/23 15:00

Date Received: 09/18/23 09:23

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Eurofins Spokane

Matrix: Solid

Lab Chronicle

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-9 (27.5-29)

Lab Sample ID: 590-21723-23 Date Collected: 09/13/23 15:00 **Matrix: Solid**

Date Received: 09/18/23 09:23 Percent Solids: 94.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.873 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 17:18	JSP	EET SPK
Total/NA	Prep	5035			4.873 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 17:18	JSP	EET SPK

Lab Sample ID: 590-21723-24 Client Sample ID: MW-3:091523 Date Collected: 09/15/23 08:55 **Matrix: Water**

Date Received: 09/18/23 09:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/19/23 23:52	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/19/23 23:52	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	627040	09/22/23 00:50	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43549	09/19/23 15:40	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43550	09/19/23 15:40	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 15:59	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:05	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	438669	09/25/23 16:28	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438895	09/27/23 03:56	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43814	09/28/23 15:05	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1			439425	09/29/23 18:48	AUA	EET SEA

Lab Sample ID: 590-21723-25 Client Sample ID: MW-9:091523

Date Collected: 09/15/23 10:02 Date Received: 09/18/23 09:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	43562	09/20/23 00:14	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	43561	09/20/23 00:14	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	627040	09/22/23 01:03	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	43549	09/19/23 15:50	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	43550	09/19/23 15:50	NMI	EET SPK
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	438128	09/20/23 16:00	AUA	EET SEA
Dissolved	Prep	200.8			50 mL	50 mL	438340	09/21/23 17:58	JLS	EET SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	438541	09/22/23 14:02	FCW	EET SEA
Total/NA	Prep	200.8			50 mL	50 mL	438669	09/25/23 16:28	TMH	EET SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	438895	09/27/23 03:59	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	43814	09/28/23 15:05	AMB	EET SPK
Total/NA	Analysis	SM 5310C		1			439425	09/29/23 19:05	AUA	EET SEA

Eurofins Spokane

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10/6/2023

Matrix: Water

Matrix: Water

EET SPK

EET SPK

Matrix: Water

Matrix: Water

Lab Sample ID: 590-21723-26

Lab Sample ID: 590-21723-27

Lab Sample ID: 590-21723-28

Lab Sample ID: 590-21723-29

Lab Sample ID: 590-21723-31

09/20/23 00:58 JSP

Client Sample ID: MW-10:091523

Date Collected: 09/15/23 12:23 Date Received: 09/18/23 09:23

Project/Site: Kwik Stop/0504-05-07

Client: GeoEngineers Inc

Batch Batch Batch Dil Initial Final Prepared Method Factor Number or Analyzed **Prep Type** Type Run **Amount** Amount **Analyst** Lab Total/NA 43562 09/20/23 00:36 JSP Analysis 8260D 43 mL 43 mL **EET SPK** Total/NA Analysis **NWTPH-Gx** 1 43 mL 43 mL 43561 09/20/23 00:36 JSP **EET SPK**

Client Sample ID: MW-11:091523

Date Collected: 09/15/23 11:39

Matrix: Water Date Received: 09/18/23 09:23 Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Type Method Run **Factor** Amount **Amount** Number or Analyzed **Analyst** Lab Total/NA 8260D 43562 09/20/23 00:58 JSP

1

43 mL

43 mL

43 mL

43 mL

43561

Client Sample ID: MW-15:091523

Analysis

Analysis

NWTPH-Gx

Date Collected: 09/15/23 13:15 Date Received: 09/18/23 09:23

Total/NA

Batch Batch Dil Initial Final Batch **Prepared** Method Amount **Amount** Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab Total/NA 8260D 43 mL 43562 09/20/23 01:42 JSP EET SPK Analysis 43 mL 43696 Total/NA Analysis **NWTPH-Gx** 43 mL 43 mL 09/26/23 00:00 JSP 1 EET SPK

Client Sample ID: MW-18:091523

Date Collected: 09/15/23 10:57 Date Received: 09/18/23 09:23

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8260D 43 mL 43 mL 43562 09/20/23 02:04 JSP EET SPK Total/NA Analysis **NWTPH-Gx** 1 43 mL 43 mL 43696 09/26/23 00:21 JSP **EET SPK** Total/NA Analysis **RSK-175** 20 mL 20 mL 627040 09/22/23 01:16 SJD EET DEN 1 Total/NA 300.0 5 mL 5 mL Analysis 43549 09/19/23 16:01 NMI **EET SPK** 09/19/23 16:01 NMI Total/NA Analysis 300.0 1 5 ml 5 mL 43550 **EET SPK** Dissolved Filtration **FILTRATION** 1.0 mL 1.0 mL 438128 09/20/23 16:00 AUA EET SEA Prep 200.8 50 ml 438340 Dissolved 50 mL 09/21/23 17:58 JLS **EET SEA** Dissolved Analysis 200.8 50 mL 50 mL 438541 09/22/23 14:40 FCW **EET SEA** Total/NA Prep 200.8 50 mL 50 mL 438669 09/25/23 16:28 TMH **EET SEA** Total/NA Analysis 200.8 50 mL 50 mL 438895 09/27/23 02:20 **FCW EET SEA** Total/NA Analysis SM 2320B 1 100 mL 100 mL 43814 09/28/23 15:05 AMB EET SPK Total/NA Analysis SM 5310C 439425 09/29/23 19:23 AUA **EET SEA** 1

Client Sample ID: B-11 (5-6.5)

Date Collected: 09/14/23 13:45 Date Received: 09/18/23 09:23

	_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	9060A		1			440030	10/05/23 22:05	AUA	EET SEA
	Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Eurofins Spokane

Matrix: Solid

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-11 (5-6.5)

Date Collected: 09/14/23 13:45 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-31

Matrix: Solid

Percent Solids: 82.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 17:40	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	43781	09/28/23 14:30	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	43780	09/28/23 14:30	JSP	EET SPK
Total/NA	Prep	5035			6.625 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		100	0.86 mL	43 mL	43780	09/28/23 14:52	JSP	EET SPK
Total/NA	Prep	3050B			1.42 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43833	09/29/23 16:08	AMB	EET SPK
Total/NA	Prep	3050B			1.42 g	50 mL	43818	09/29/23 14:01	AMB	EET SPK
Total/NA	Analysis	6010D		5			43898	10/03/23 19:25	AMB	EET SPK

Client Sample ID: B-11 (20-21.5)

Date Collected: 09/14/23 14:15

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-37

Matrix: Solid

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-11 (20-21.5)

Date Collected: 09/14/23 14:15

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-37 **Matrix: Solid**

Percent Solids: 94.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.345 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 18:02	JSP	EET SPK
Total/NA	Prep	5035			4.345 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 18:02	JSP	EET SPK

Date Received: 09/18/23 09:23

Total/NA	Analysis N	WTPH-Gx	1	0.86 mL	43 mL	43750	09/27/23 18:02 JSP	EET SPK
Client San	nple ID: B-11 (3	32.5-34)				La	ab Sample ID: 590	-21723-42
Date Collect	ted: 09/14/23 15:0	0					N	latrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-11 (32.5-34)

Date Collected: 09/14/23 15:00

Lab Sample ID: 590-21723-42 **Matrix: Solid** Date Received: 09/18/23 09:23 Percent Solids: 93.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.372 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 18:24	JSP	EET SPK
Total/NA	Prep	5035			5.372 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 18:24	JSP	EET SPK

Eurofins Spokane

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-11 (40-41.5)

Date Collected: 09/14/23 15:35 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-45

Matrix: Solid

Job ID: 590-21723-1

Batch Batch Dil Initial Batch Final Prepared Method **Factor** or Analyzed **Prep Type** Type Run Amount **Amount** Number Analyst Lab Total/NA Analysis Moisture 43555 09/19/23 14:38 MRV EET SPK

Client Sample ID: B-11 (40-41.5)

Date Collected: 09/14/23 15:35 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-45

Matrix: Solid Percent Solids: 80.5

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8260D	Run	Dil Factor	Amount 6.127 g 0.86 mL	Final Amount 10 mL 43 mL	Batch Number 43741 43751	Prepared or Analyzed 09/27/23 10:40 09/27/23 18:46	 Lab EET SPK EET SPK
Total/NA Total/NA	Prep Analysis	5035 NWTPH-Gx		1	6.127 g 0.86 mL	10 mL 43 mL	43741 43750	09/27/23 10:40 09/27/23 18:46	 EET SPK EET SPK

Client Sample ID: B-10 (10-11.5)

Date Collected: 09/14/23 08:26

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-47 **Matrix: Solid**

Lab Sample ID: 590-21723-51

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-10 (10-11.5)

Date Collected: 09/14/23 08:26 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-47 **Matrix: Solid** Percent Solids: 89.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.175 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 19:08	JSP	EET SPK
Total/NA	Prep	5035			4.175 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 19:08	JSP	EET SPK

Client Sample ID: B-10 (25-26.5)	Lab Sample ID: 590-21723-51
Date Collected: 09/14/23 08:44	Matrix: Solid
Data Pacaived: 09/18/23 09:23	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-10 (25-26.5)

Date Collected: 09/14/23 08:44

Date Received: 09/18/23 09:23

				P	ercent S	olids: 93.2
Dil	Initial	Final	Batch	Prepared		
actor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	4.344 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
1	0.86 ml	43 ml	43751	09/27/23 19:51	JSP	FFT SPK

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.344 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 19:51	JSP	EET SPK
Total/NA	Prep	5035			4.344 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 19:51	JSP	EET SPK

Eurofins Spokane

Matrix: Solid

Client Sample ID: B-10 (32.5-34)

Date Collected: 09/14/23 09:00 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-54

Matrix: Solid

Job ID: 590-21723-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-10 (32.5-34)

Date Collected: 09/14/23 09:00 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-54

Matrix: Solid Percent Solids: 94.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			+5.90 g	5 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 20:13	JSP	EET SPK
Total/NA	Prep	5035			+5.90 g	5 mL	43741	09/27/23 10:40	JSP	EET SPK
_Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 20:13	JSP	EET SPK

Client Sample ID: B-10 (40-41.5)

Date Collected: 09/14/23 09:25 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-56 **Matrix: Solid**

Batch Batch Dil Initial Final **Batch** Prepared Method Amount Number or Analyzed **Prep Type** Type Run **Factor Amount** Analyst Lab Total/NA Moisture 43555 09/19/23 14:38 MRV EET SPK Analysis

Client Sample ID: B-10 (40-41.5)

Date Collected: 09/14/23 09:25 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-56 Matrix: Solid Percent Solids: 83.9

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Туре Run Factor Amount Number or Analyzed Lab Amount Analyst 5035 Total/NA Prep 7.813 g 10 mL 43741 09/27/23 10:40 JSP **EET SPK** Total/NA Analysis 8260D 0.86 mL 43 mL 43751 09/27/23 20:35 JSP EET SPK Total/NA Prep 5035 7.813 g 10 mL 43741 09/27/23 10:40 JSP EET SPK 09/27/23 20:35 JSP

1

Client Sample ID: B-8 (12.5-14)

Analysis

NWTPH-Gx

Date Collected: 09/13/23 12:40

Total/NA

Lab Sample ID: 590-21723-62 **Matrix: Solid** Date Received: 09/18/23 09:23

0.86 mL

43 mL

43750

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture	·	1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-8 (12.5-14)

Date Collected: 09/13/23 12:40 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-62
Matrix: Solid
Percent Solids: 93.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.321 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 20:57	JSP	EET SPK
Total/NA	Prep	5035			4.321 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 20:57	JSP	EET SPK

Eurofins Spokane

EET SPK

Lab Chronicle

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-8 (25-26.5)

Date Collected: 09/13/23 13:20

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-67

Matrix: Solid

Job ID: 590-21723-1

ſ	_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-8 (25-26.5)

Date Collected: 09/13/23 13:20 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-67

Matrix: Solid Percent Solids: 96.0

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8260D	Run	Dil Factor	Initial Amount 4.384 g 0.86 mL	Final Amount 10 mL 43 mL	Batch Number 43741 43751	Prepared or Analyzed 09/27/23 10:40 09/27/23 21:18		Lab EET SPK EET SPK
Total/NA Total/NA	Prep Analysis	5035 NWTPH-Gx		1	4.384 g 0.86 mL	10 mL 43 mL	43741 43750	09/27/23 10:40 09/27/23 21:18	JSP	EET SPK EET SPK

Client Sample ID: B-8 (37.5-39)

Date Collected: 09/13/23 13:45 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-72
Matrix: Solid

Batch Batch Dil Initial Final **Batch** Prepared Method Amount Number or Analyzed **Prep Type** Type Run Factor **Amount** Analyst Lab Total/NA Moisture 43555 09/19/23 14:38 MRV EET SPK Analysis

Client Sample ID: B-8 (37.5-39)

Date Collected: 09/13/23 13:45 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-72

Matrix: Solid Percent Solids: 87.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.763 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 21:40	JSP	EET SPK
Total/NA	Prep	5035			5.763 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 21:40	JSP	EET SPK

Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-73

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 9060A 440030 10/05/23 22:10 AUA EET SEA Analysis Total/NA Analysis Moisture 43555 09/19/23 14:38 MRV EET SPK 1

Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-73

Matrix: Solid Percent Solids: 87.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.497 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43751	09/27/23 22:02	JSP	EET SPK
Total/NA	Prep	5035			7.497 g	10 mL	43741	09/27/23 10:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43750	09/27/23 22:02	JSP	EET SPK

Eurofins Spokane

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Client Sample ID: B-8 (40-41.5)

Date Collected: 09/13/23 14:00

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-73

Matrix: Solid

Percent Solids: 87.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.41 g	50 mL	43745	09/27/23 10:57	AMB	EET SPK
Total/NA	Analysis	6010D		5			43775	09/27/23 21:15	AMB	EET SPK

Client Sample ID: B-9 (37.5-39)

Date Collected: 09/13/23 15:20 Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-74

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-9 (37.5-39)

Date Collected: 09/13/23 15:20

Lab Sample ID: 590-21723-74

Matrix: Solid

Date Received: 09/18/23 09:23 Percent Solids: 90.1

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8260D	Run	Dil Factor	Amount 5.454 g 0.86 mL	Final Amount 10 mL 43 mL	Batch Number 43762 43765	Prepared or Analyzed 09/27/23 15:18 09/28/23 01:38		Lab EET SPK EET SPK
Total/NA	Prep	5035			5.454 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43764	09/28/23 01:38	JSP	EET SPK

Client Sample ID: B-9 (40-41.5)

Date Collected: 09/13/23 15:50 Date Received: 09/18/23 09:23 Lab Sample ID: 590-21723-75

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			440030	10/05/23 22:14	AUA	EET SEA
Total/NA	Analysis	Moisture		1			43555	09/19/23 14:38	MRV	EET SPK

Client Sample ID: B-9 (40-41.5)

Date Collected: 09/13/23 15:50

Date Received: 09/18/23 09:23

Lab Sample ID: 590-21723-75

Matrix: Solid

Percent Solids: 85.5

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.446 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	43765	09/28/23 02:00	JSP	EET SPK
Total/NA	Prep	5035			5.446 g	10 mL	43762	09/27/23 15:18	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	43764	09/28/23 02:00	JSP	EET SPK
Total/NA	Prep	3050B			1.45 g	50 mL	43745	09/27/23 10:57	AMB	EET SPK
Total/NA	Analysis	6010D		5			43775	09/27/23 21:32	AMB	EET SPK

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins Spokane

Accreditation/Certification Summary

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Washington	Sta	ate	C569	01-07-24
The following analyte	s are included in this reno	ort but the laboratory is r	not certified by the governing authority	This list may include analytes for which
the agency does not	•	ort, but the laboratory to t	iot deruned by the governing duthonty.	This list may include driarytes for which
• ,	•	Matrix	Analyte	This list may include unarytee for which
the agency does not	offer certification.	•		This list may include unarytee for which

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	460232	06-14-24
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Seattle

Eurofins Spokane

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GeoEngineers Inc Job ID: 590-21723-1

Project/Site: Kwik Stop/0504-05-07

Laboratory: Eurofins Seattle (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-23 *
Florida	NELAP	E87575	06-30-23 *
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-23 *
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

Eurofins Spokane

10/6/2023

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Method Summary

Client: GeoEngineers Inc

Project/Site: Kwik Stop/0504-05-07

Method **Method Description** Protocol Laboratory 8260D Volatile Organic Compounds by GC/MS SW846 **EET SPK NWTPH-Gx** Northwest - Volatile Petroleum Products (GC/MS) **NWTPH EET SPK RSK-175** Dissolved Gases (GC) **RSK** EET DEN 300.0 Anions, Ion Chromatography EPA **EET SPK** 200.8 Metals (ICP/MS) **EPA EET SEA** 6010D Metals (ICP) SW846 EET SPK 9060A Organic Carbon, Total (TOC) SW846 **EET SEA** Percent Moisture **EPA EET SPK** Moisture SM 2320B Alkalinity SM **EET SPK** SM 5310C TOC SM **EET SEA** 200.8 Preparation, Total Metals **EPA EET SEA** 3050B Preparation, Metals SW846 **EET SPK** 5030C Purge and Trap SW846 **EET SPK** 5035 Closed System Purge and Trap SW846 **EET SPK**

Protocol References:

FILTRATION

EPA = US Environmental Protection Agency

Sample Filtration

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Job ID: 590-21723-1

EET SEA

None

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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290																								
Client Information	Sampler			3	ь РМ: ringtor	n, Ra	andee	ěΕ					Car	rier Tr	acking	No(s):	:			0 No: 0-8951-2	2569.1			
Client Contact: Justin Orr	Phone:	,			Mail: andee.	.Arrir	gton	@et.	.eurofi	nsus	s.com		Stat	e of C	origin:				Page Pag	e: ge 1 of 1	11			
Company: GeoEngineers Inc			PWSID:					**********		Ana	alysi	s Re	que	ste	ł				Job i	ø:				
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City: Spokane	TAT Requested (da	ays):	,																Ві	HCŁ NaOH Zn Acelal	e	N None O AsNaO	2	
State, Zip: WA, 99202	Compliance Projec	cl: A Yes	Δ No																E I	Nitric Acid NaHSO4	j	P Na2O45 Q Na2SO R Na2S20	3	
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11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9290 Fax: 509-924-9290

Chain of Custody Record

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Environment Testing

Client Information	Sampler	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ь РМ: rrington	Ran	idee f	:		**		· ·	arrier	Track	ng No	(s):			COC No: 590-8951-2569.2	>	
Client Information Client Contact: Justin Orr	Phone:				Ε	Mail: andee.							1	late o	i Origi	n:				Page:		
Сотрапу:				PWSID:		andee.	Amang	iou	et.eu							***				Page 2 of 11 Job#:		
GeoEngineers Inc	·					100000	nundels .			Α_	naly	sis	Requ	est	ed				100015000			
Address: 523 East Second Ave	Due Date	Request	ed:																	Preservation Cod	les: M. Hexane	
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Spokane State, Zip:	-																			C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S	ļ
WA, 99202	Complia	nce Proje	ct: A Yes	Δ No		71		Į					ll	- [ļ			1		E NaHSO4	Q Na2SO3 R Na2S2O3	3
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jorr@geoengineers.com	0504-0					8		Ì	Ì	1	B	ngas		Ę	-]		Ì	1	g	J DI Water K EDTA	V MCAA W pH 4-5	
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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290	Sampler		***************************************	li at	PM:							To:	orier	Tracki	na No/	e).			COC No:		
Client Information Client Contact:				Ari	rington,	Rande	еE									٠,,			590-8951-2569.3		
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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Client information	Sampler W/A	Otole		Lab PA Arring	l: ston, Ra	ndeø l	=	-			C	arrier	Track	ng No(s):			COC No: 590-8951-2569.4		\Box
Client Information Client Contact Justin Orr	Phone:	<u></u>		E-Mail:				rofins	us.co	 om	s	tate o	igirO i	¥:		.,,,,,,,,,,		Page: Page 4 of 11		\neg
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Deliverable Requested 1 II, III, IV Other (specify)					Spec	cial Ins	struction	ons/C	C Re	equire	emen	ls:			***		,,,,	-		
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·	DEIO/ Inite.			Company	- 1		-											***		
Custody Seals Intact. Custody Seal No. Δ Yes Δ No					1	Cooler T	empera	ature(s) °C aı	nd Oth	ner Ren	arks:	2.1	2.	400	~~	4	- 5.7,6.1	Dear H	201
22 7 30 23 7 YO				Page 53	of 77														Ver: 06/08/20210/	/6/2 (

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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Phona: 509-924-9200	-	*********																			
Client information	Sampler			Ar	PM: rington	, Rand	lee E					\perp		Track		(s):			COC No: 590-8951-2569.6	,	
Client Contact: Justin Orr	Phone:				dail: andee./	Arringto	on@e	l.euro	กีกรเ	s,cor	n	s	iale c	f Origi	1:				Page: Page 6 of 11		
Company: GeoEngineers Inc			PWSID:						An	aiys	is R	teau	est	ed				***************************************	Job#:		
Address:	Due Date Reque	sted:	I	····					Ť	T.			T	T	Т	Т	Т		Preservation Code		
523 East Second Ave City:	TAT Requested (days):			- 1				I	1	-	-	١	-		-	-		A HCL B NaOH	M Hexane N None	
Spokane	,,,,,								1										C Zn Acetate	O AsNaO2 P Na2O4S	
State, Zip: WA, 99202	Compliance Proj	ect: A Yes	ΔNo						- 1	ı									E NaHSO4	Q Na2SO3 R Na2S2O3	
Phone:	PO#: Purchase Ord	er not require	-d		71				- {		-	g l		-	- {	-	-		3 G AINCHIOF	S H2SO4 T TSP Dode	cahydrale
Email:	WO#:	er not require			⊣ ĝ					nese	Dese) 86							I ice	U Acetone V MCAA	,
jorr@geoengineers.com Project Name:	0504-058-07 Project #:				- \(\bar{2}\)					tange	anga	g	ē					SE SE	K EDTA	W pH 4-5 Y Trizma	
Kwik Stop/0504-05-07	59002658				<u> </u>	S	½	8	, l	20 20	Σ Ν	ő	Carbon	-	-			ē	L EDA	Z other (spec	cify)
Site:	SSOW#:				l g	8260D, NWTPH_GX_MS	Standard Soil TOC	Moisture Local Method	8260D, NWTPH_Gx_MS	200.8_CWA Total Iron & Manganes	Diss Iron &	2320B, 300_ORGFM_28D, 300_ORGFMS	Total Organic	arre				8	Other'		
			Sample	Matrix	P	A F	anda	Loca	Ĕ	¥	ä ≼	8	<u>텳</u>	Methane			İ	ēqu			
		Sample	Type {C=comp,	(W=water S=solid,	懂	Ž	1 1	ture	ž	§	200.8_CWA	B, 38	۴ و	RSK_175	1			1			
Sample (dentification	Sample Date		G=grab) в	O=waste/oli T=Tineuo, A=/	ur) [표		9060A	Mois	8260	200	Ř	232	2340C	Σ _Σ				Total	Special ins	tructions/	Note.
	. 25	2	Preservat	on Code	×	XF.	N	N /	4	D I		y 8		٩.			4	×			
-B-11 (2-5-4)	09/14/23	1340	G	Solid									_			1					
B-11 (5-65)	1	1345		Solid											_	\perp		4			
-B-11 (75-9)		1350		Solid			L											1			
-B 11 (10-11-5)		1355		Solid														I			
B-11 (12-5-14)		1400		Solid					_								\bot	1			
告14(15-16万)		1405		Solid														1			
-B-11 (17-5 - 19)		1410		Solid													┸	1			
B-11 (20-215)		1415		Solid														A			
-B-11 (22-5 - 24)		1420		Solid														l			
-B-11 (25 - 2657 -B-11 (27 -5 - 29)		1430		Solid	Ш											\perp		1			
B-11 (27 05 - 29)		1440		Solid														1			
Possible Hazard Identification											ay b					ples	are r		ed longer than 1		
Non-Hazard Flammable Skin Irritant Pois Deliverable Requested: I, II, III IV Other (specify)	on B Uni	known 🗀 .	Radiological			Specia	Returr Unstr					_ Di		al By	l.ab	*****		Arci	hive For	Months	
Empty Kit Relinquished by		Date:			Tim			uotton			un o			Method	l of Si	iomen	j.				
	Date/Time/			ompany			eived b	v:								-				Company	-0
Marin Marin	Date/Time/ G//8/07 Date/Time:	0	120	G (Z		eived b		1	_		2				?// ate/Tir	8/8	23	9:23	Company	SPS
Byce Honsen By								•										*********			
Refinquished by:	Date/Time:			ompany		- 1	eived t	•								ate/Tir				Company	
Custody Seals Intact: Custody Seal No. Δ Yes Δ No) o a =	1 61.	Coo	der Ten	peratu	re(8)	°C and	Othe	r Rem	arks:	.1.	2	de		٠ ત	-5.76.	Depr	Per
2 , 40 A NO		·	F	age 5	<u>4 OI</u>								<u>-</u>	''		100	<u> </u>	4		Ver: 06/08/	

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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290																	_						
Client Information	Sampler			Ar		n, Rai	ndee E	<u> </u>						er Trac		lo(s):			590	: No:)-8951-256	9.7		
Client Contact: Justin Orr	Phone:				Mail: andee.	Arring	gton@	et.eur	rofins	us.co	om		State	of Orig	jin:				Page Pag	e: je 7 of 11			
Company: GeoEngineers Inc			PWSID:						Aı	naly	sis	Req	ues	ted					Job	#:			
Address: 523 East Second Ave	Due Date Reques	ted:	<i>!</i>	***************************************				Τ								Ī			Pre	servation C	Codes. M Hex	***	
City:	TAT Requested (lays):																	В	HCL NaOH	N Non-	e	
Spokane State, Zip:					7.5														Ð	Zn Acetate Nitric Acid	P Na2	048	
WA, 99202 Phone:	Compliance Proje	ct: A Yes	A No		- K			1				ļ			1	- {	- {		F 1	NaHSO4 MeOH	R Na2	S2O3	
	Purchase Orde	er not require	d							9	9	SFMS							Н.	Amehlor Ascorbic Acid	T TOD	Dodeca	ihydrate
Emall: jorr@geoengineers.com	WO#: 0504-058-07				δ					gane	Manganes	O.							ا د ای	ce DI Water	V MCA W pH	VA.	
Project Name: Kwik Stop/0504-05-07	Project #: 59002658				78		l g	_		S Mar	. Man	300	arbor					19		EDTA EDA	Y Trizr Z othe	na	ivs
Site:	SSOW#:						SX_MS	Local Method	Gx_MS	Total Iron & Manganes	Diss Iron & I	FM_28	ganic C	94					Olhe	3 Γ'		(0)	"
		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oli	E I		8250D, NW IPHGXMS 9060A Standard Soil T	£	8260D, NWTPH_GX_MS	200.8_CWA Tol	200.8_CWA Dis	Z3Z0B, 300_ORGFM_Z8D, 300_ORGFMS	5310C Total Organic Carbon	RSK_175 Methane					oral Alimber		*****		No. of Contract of
Sample identification	Sample Date	Time	G≔grab)	BT=Tissue, A=/	ᄮ	\$20000 NO		404 XXXXXXXXXX	200000000000000000000000000000000000000	X400 (50)	SCHOOL SECURE		Water Comment	2386216					_إ	Specia	l Instructio	ons/No	ote
2 1 / 2 - 1	- 61 1 100		Preserva		¥	ЖF	<u>N</u>	N	A	D	N	N	S	A			-+	4	4 -				
<u>B-11 (30-31-5)</u>	Al 14/53		6	Solid	\perp	\square		<u> </u>	}				-	\vdash	_	_			<u> </u>				
B-11 (32-5-34)		1220		Solid	\perp				<u> </u>					Ш	_	_			1				
-B-11 (35-36-5)		1570		Solid	Ш				<u> </u>														
-16-11 (37-5-39)		1575		Solid	Ш																		
- B-11 (40-415)		1535		Solid														L					
	•			Solid																			
				Solid																			
				Solid												Ì							
				Solid	\top			T								T							
				Solid				ļ															
		4		Solid						T			*****										
Possible Hazard Identification			J 			Sam					nay							_			n 1 month))	
Non-Hazard Flammable Skin Irritant Pois Deliverable Requested: I II, III, IV Other (specify)	on B Unk	nown 🗀	Radiological		,-	Snec	J <i>Retui</i> ial Insi				Guic			sal B	y Lai	<u> </u>		^{⊶l} Ar	chive .	For	Mor	nths	
		Is .			1		141 11 151	II QUIIC)1157 G	io ne	quir	CINCI	ito.	Y 11.0	1 2								
Empty Kit Relinquished by:	Date/Time: I	Date:		Company		ne:	ereived	hur						Metho		hipme Date(I					Compa	nu	
Relinquished by: Relinquished by:	Date/Time: 9/8/9 3 Date/Time:	0920		Company	£2		eceived eceived		1	_						Date/I	181	2:	<u> 3</u>	9123	Compa		દ્રશ્ય
7 7					_																		
Relinquished by:	Date/Time:			Company		1	eceived	•							- 1	Date/I					Compa		
Custody Seals Intact: Custody Seal No. Δ Yes Δ No				2000 5	E ~!	77 C	ooler Te	mpera	iture(s	°C ar	id Otl	er Re	marks	21	2.	4,	200	_	4:	5.74	,0 Co.	<u></u>	Mac
				Page 5	3 OF	//										, ,					Ver 0	6/08/20	고면/여/ 스 1)21

11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290																			
Client Information Client Contact:	Sampler			Lab PM Arring		andee	E					Carrie	r Track	ng No(s) :		COC No: 590-8951-2569.8		
Justin Orr	Phone:			E-Mail: Rande	e.Arrir	ngton@	get.eu	urofins	sus.ce	om		State	of Origi):		•	Page: Page 8 of 11	***************************************	
Company: GeoEngineers Inc	***		PWSID:			****		Α	naly	sis	Req	uesi	ted				Job#:		
Address: 523 East Second Ave	Due Date Request	ed.						Τ				1					Preservation Cod	es: M Hexane	
City. Spokane	TAT Requested (d	ays);	***************************************										1				A HCL B NaOH C Zn Acetate	N None O AsNaO2	
State, Zip: WA, 99202	Compliance Proje	nt: A Yas	A No.			İ											D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone:	PO #:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									ပ္က						F MeOH G Amchlor	R Na2S2O3 S H2SO4	l
Email:	Purchase Orde WO#:	r not require	d						nese	nese	RGFN						H Ascorbic Acid I Ice	T TSP Dode U Acetone V MCAA	ecahydrate
jorr@geoengineers.com Project Name:	0504-058-07 Project #:								& Mangan	angar	0 8	Ę.				Sers	J DI Water K EDTA	W pH 4-5 Y Trizma	
Kwik Stop/0504-05-07 Site:	59002658 ssow#:					SM. MS	Ę	ş	S Lo	n & M	28D, (Carbon				ij	L EDA	Z other (spe	:cify)
S116.	330VV#.					8 8	Med	8	Total Iron	Diss Iron	GFM	rgani	Methane			9	Other'		
			1 wanipio	itrix water,	7	8260D, NWTPH_Gx_MS	Moisture Local Method	8260D, NWTPH_Gx_MS			2320B, 300_ORGFM_28D, 300_ORGFMS	Total Organic				umber			
		Sample	(C=Comp, 0=wi	olid, ate/oil,		8260D, 1	oistur	2009	200.8_CWA	200.8_CWA	208,	5310C	RSK_175			Z Z			
Sample Identification	Sample Date	Time	G=grab) _{ST=Tb}	ode:		90099370 99992	3250 rander	A A	200000000000000000000000000000000000000	20000000000	Z 23	COMMISSION IN	Δ			长	Special In	structions/	Note:
B-10(5-65)	09/14/23	0855		olid						158.0000	1.000m.bys		ECENSOR SO			h			
-B-10 (10-115)		0826	1	olid	П	T										3			
-13-10 (15-165)		0833	s	olid												1	1		
B-10 (20-21 5)		0837	s	olid												Î			
B-10 (223-24)		0841	s	olid									\exists			1			
-3-10 (25-265)		0844	s	bild								Ì				4		ALL IIII	
8-10 (275-29)		0850	s	olid												1			
B-10 (30-315)		0853	s	olid												J			
B-10 (275-29) B-10 (30-315) B-10 (32-5-34)		0800	s	olid									\top			9			
B-10 (37-5-39) B-10 (40-41.5)		6920	s	olid												1			
B-10(40-4105)	\	09725	s	bild									\Box			L			
Possible Hazard Identification 1 1 -10 (35 -36 5)	_ []	09/0			San	ple D	Ispos	sal (A	fee .	may [be as	ses	sed if	samp	les are	-, ·	ed longer than 1		
Non-Hazard Flammable Skin Irritant Pois Deliverable Requested: I II, III, IV Other (specify)	on B ' Unki	nown 🗀	Radiological		Spe	□ _{Reti} cial In:	<i>ım Ta</i> structi	o <i>Cliei</i> ions/C	nt IC Re	equire	emen	ispos ts:	sal By	Lab		[—] Arc	hive For	Months	
Empty Kit Relinquished by		Date:		17	ime:								Method	of Ship	ment:				<u>,</u>
Relinquished by:		09	Compa	iny,		Rejeive	d by:							Dat	8/Jme:	02	9:73	Company	8P2
Relinquished by:	Date/Time: 9/18/33 Date/Time:	<u> </u>	Compa	6 <i>t</i> ツ		Receive		-7						Date	e/Time:	<u> </u>	7.60	Company	OID
Relinquished by Honson Tayl	Date/Time:		Compa	iny		Receive	-								e/Time:			Company	
Custody Seals Intact: Custody Seal No.			Pag	e 56 o	f 77	Cooler 1	emper	rature(s) °C ar	nd Oth	er Ber	narks:	2.4	Cor		+5	7,6.00	er /	KALL

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11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Ea

Chain of Custody Record

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290																							
Client Information	Sampler	:				PM: ington	ı, Rai	ndee	Е					Carri	ier Tra	cking	No(s):				COC No: 590-8951-2569.9		
Client Contact: Justin Orr	Phone:				E-M Ra	lail: ndee. <i>i</i>	Arrin	gton(@et.e	eurofin	sus.	com		State	of Or	igin:					Page: Page 9 of 11		
Company: GeoEngineers Inc	Avec .	*******		PWSID:		Τ	***************************************	·	-		nal	ysis	Rec	11169	sted					J	ob #:		\neg
Address:	Due Da	e Requeste	d:	<u> </u>				\neg	1	—— <u> </u>	T	1	<u> </u>	1	1	Γ	T	П	3	F	reservation Code	9:	
523 East Second Ave	TATE																			1	A HCL	M Hexane N None	
City: Spokane	IAI Re	ab) belaeup	ys):					Ì	1												B NaOH C Zn Acetate	O AsNaO2 P Na2O4S	
State, Zip: WA, 99202	Compli	ince Projec	t: A Yes A	4 No	-	-														2] ı	D Nitric Acid E NaHSO4	Q Na2SO3 R Na2S2O3	
Phone:	PO#:	0				71							গ্র								F MeOH G Amchlor	S H2SO4 T TSP Dodecahydra	alc
Email:	Wo#:	ase Order	not require	a		-12					nese	lese	RGF						3		H Ascorbic Acid Ice	U Acetone V MCAA	200
jorr@geoengineers.com Project Name:	0504-0 Project /										anga	angar	8	5	İ						J DI Water K EDTA	W pH 4-5	
Kwik Stop/0504-05-07	59002				_	Š		۶ ا س	₹,	g "	8 8	¥ 4	8D,3	Carbon							L EDA	Y Trizma Z other (specify)	
Site:	SSOW#	:				٦į		8260D, NWTPH_Gx_MS	Standard Soil 100	Moisture Local Method 8260D, NWTPH_GK_MS	200.8 CWA Total Iron &	200.8_CWA Diss Iron &	2320B, 300_ORGFM_28D, 300_ORGFMS	ganic	2					8 0	Other'		
				Sample	Matrix		9	<u>-</u> ' ;	indar	E PH	ToT	ä	ORG	Total Organic	Methane						***************************************	***************************************	
				Туре	(W≂water, S=solid.					2 N	Š	, Š ,	8,										
Sample Identification	Sam	ole Date	Sample Time	(C=comp, G=grab)	O=waste/oil. BT=Tissus, A=Al			8260	3060A	Moist 82600	2002	200.8	2320	5310C	RSK_175					8	Special ins	structions/Note:	
Constant Constant		<	\mathcal{N}	THE STREET STREET, STR	tion Code:		90000	N		A	D	N	N	s	A					$\langle $			
B-8(2-5-4)	09	[13/23	1200	લ	Solid										""								
B-8 (5-6 5)			1220	[Solid			1												1			
B-8 (75-9)			1235		Solid	\prod										Γ							
38 (10 115)			1235		Solid	П																	
PB-8 (12-5-14)			(240		Solid	П		T		\top	T								1	3		***************************************	
B-8 (15-165)			1350		Solid	П				\top								\prod					
B8 (175-19)			(25%		Solid			T		Т													
B-8 (20-215)			1300		Solid		\top																
B-8 (20-2(5) -B8 (225-24)			1310		Solid	П												П		l			
B8(25-265)			1320		Solid														1	5			
18-8 (275-29)			1325		Solid	П										Γ				1			
Possible Hazard Identification	•						Sam	ple D	ispo	sal (4 fee	e may	be a	sse	ssed	If sa	ampl	es ar	e reta	lne	d longer than 1	month)	
Non-Hazard Flammable Skin Irritant Pois	on B	— ∪ _{nkn}	own 🗀 i	Radiologica	I		L] Ret	um 7	To Clie	nt			Dispo	osal E	By La	ab				e For	Months	
Deliverable Requested: I, II III IV Other (specify)										tions/		Requi	eme	nts.									
Empty Kit Relinquished by			Date:			Tim	ne:							-	Meth	od of	Shipa	ent:					
Relinguished by:	Date/Tir	703	09:	Del	Company 6E	_ <u></u>	R	eceiv	d by	1			, -	-			Date	Time:	10	?	0.73	BEC8F	<u> </u>
Relinquisted by:	Date/Tin	ne:	<u></u>	<i>0</i> V	Company	Line		eceive	_		•				····		Date	/Time:	<u> </u>	_	<u>. 3 / </u>	Company	<u>~</u>
Relinquished by:	Date/Tir	ne:			Company		R	eceive	ed by:								Date	/Time:				Company	
Custody Seals Intact: Custody Seal No.	<u> </u>						c	ooler	Tempe	erature(s) °C	and Ot	her Re	emark	s:2-	11			15	2~		2604	0-
Δ Yes Δ No							- 1						- 2	<u> </u>	. T	مرابي		_	112	Ľ	ながらってつ	1.10.13	cee

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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290	Sampler			La	Ъ PM :							To	Carrie	r Track	ing No	(s):		_	COC No:	
Client Information	`			Aı	rrington	, Rano	lee E	<u> </u>											590-8951-2569.	10
Client Contact: Justin Orr	Phone:				Mail: andee. <i>F</i>	Arringt	on@	et.eu	ofins	us.co	om	8	State	of Orig	in:				Page: Page 10 of 11	
Company:			PWSID:						************			<u> </u>					-	\neg	Job #:	
GeoEngineers Inc Address:	Due Date Reques	lari					_	_	Al	naiy	SIS	Requ	uesi	ea		_	$\overline{}$	(S) (S)	Preservation Cod	doe
523 East Second Ave	Dao Bato (tadaos												ı						A HCL	M Hexana
Dity: Spokane	TAT Requested (d	íays):			*														B NaOH	N None O AsNaO2
State, Zip:																			C Zn Acetate D Nitric Acid	P Na2O48 Q Na2SO3
NA, 99202	Compliance Proje	ct: A Yes	ΔNo												İ				E NaHSO4 F MeOH	R Na2S2O3
Phone:	PO#: Purchase Orde	r not require	ed							ا ا	_	SMF							G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email:	WO#:			*.**						anes	Pesc	ORG							i tce	U Acetone V MCAA
orr@geoengineers.com Project Name:	0504-058-07 Project #:						ļ			dang	ange	8	ĕ			İ		8	J DI Water K EDTA	W pH 4-5 Y Trizma
(wik Stop/0504-05-07	59002658				3	S S	ğ	_R	S	1.8.M	% ₩	å,	Carbor					1	L EDA	Z other (specify)
lite:	ssow#:					NWTPH_GX_MS	d Soil TOC	Local Method	8260D, NWTPH_Gx_MS	Total Iron	Diss Iron		Total Organic	ane				otcol	Other ·	
			Sample	Matrix	ğ	Ŧ	Standard	2	Į ₹			, N	ō	Methan				3		
			Туре	(W=water S=solid,		Ž.			¥.	200.8_CWA	200.8_CWA	98	۵					1		
Sample Identification	Sample Date	Sample	(C=comp,	O=waste/oi		8260D,	9060A	Moisture	2600	8.00	8.8	320B	5310C	RSK_175	-			Total Nu	Connected to	
Sample identification	Sample Date	Time	G≕grab) Preserva	ition Code		X F	N		2 150000000000	D	HARRAMARIA	50000000000000000000000000000000000000	s l	Δ			+	ᄫ	Special if	nstructions/Note:
B-8 (30-31-5) B-8 (30-5-34) B-8 (35-36)	99(13/23	1330	G	Solid	ŤŤ		SA MASS.	<u> </u>	Bollion and	Marine de la constantia		1.22.6			72/020 53			Î		
8-8 (32-5-39)	1	1335	ı	Solid			1	1						T	1		1	T		
B-8 (35-365)		1340		Solid		_	T	+							\dashv	_	+	ì		
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B-8 (40-41-3)		1400		Solid			╁	-	 							-	+			
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11922 East 1st Ave Spokane. WA 99206 **Chain of Custody Record**

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Environment Testing

Phone: 509-924-9200 Fax: 509-924-9290																			
Client Information	Sampler				gton, F	Rande	еE							king N	(s):			COC No: 590-8951-2569,1	1
Dient Contact: Justin Orr	Phone:			E-Mail Rand	: lee.Arr	ingtor	n@et	.eurof	ัเกรน	s.com	:	State	of Orig	gin:				Page: Page 11 of 11	
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mail: orr@geoengineers.com	WO #: 0504-058-07								1	Iron & Manganes	ORO OR	ا ٍ					g	I Ice J DI Water K EDTA	V MCAA W pH 4-5
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Phone: 509-924-9200 Fax: 509-924-9290	Cample						1 - 15/1054
Client Information	Sampler.		400	Arringto	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-8951-2569.9
Justin Orr	Phone:			E-Mail: Randee	E-Malt: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 9 of 11
Cempany: GeoEngineers Inc	Company of Country	PV	PWSID:	- 1	Analysis Requested	armastari	Job #:
Address: 523 East Second Ave	Due Date Requested:					7	Preservation Codes:
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Page 10 of 11	own or Cultur	Randee.Arrington@et.eurofinsus.com		PWSID:	-	Company: GeoEngineers Inc
590-8951-2569.10		, Randee E	Arrington E-Mail:		Phone:	ustin Orr
COC No.	Carrier Tracking No(s):	Lab PM:	Lab PM:		Sampler:	Client Information
⇔ eurofins Environment Testing		ord	Chain of Custody Record	Chain of		11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290

Spokane, WA 99206 Phone: 509-924-9290 Plant Information Clent Cortace: Justin Orr Company: GeoEngineers Inc	Chain of C	ustody	Carrier Tracking No(s): State of Origin:	
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Column C	Client Information Client Contact Ulustin Orr Company: GeoEngineers Inc	Sampler: Phone:	PWSID:	Lab PM: Arringto E-Mail: Randes	Lab PH: Arrington, Randee E E-Mai: Randee Arrington@et.eurofinsus.com	9	Sir R	(e): COC No: 590-8951-2569.8 Page: Page: B of 11
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Sample identification Si	Sample Date Time	(C=comp,		60A - S olsture - 50D, NV 0.8_CW	LO-	
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Possible Hazard Identification	1 1440	Ö	Solid	The second secon		
□ Non-Hazard □ Flammable □ Skin Imitant □ Polson B Deliverable Requested: I II III N. Other 1.	Unknown	Radiological		Sample Disposal (A fee may be assessed if san	o assossed if samples are	retained longer than 1 month)
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Water	Collections 197		Company		Method of Shipment	
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ilon	Sampler: Phone:		(Lab PM: Arrington, Randee E E-Malt: Randee.Arrington@e	at.eurofinsus.com	Carrier Tracking No(s): State of Origin:	COC No: 590-8951-2569.7 Page: Page 7 of 11
GeoEngineers Inc	51	PWSID:	A 1		i i	Job #:
523 East Second Ave	Due Date Requested:	1000		Analysis Requested	nested	Preservation Codes:
Spokane	TAT Requested (days):		100 day			- 5
State, Zip: WA, 99202				∮		B-NaOH N-
Phone:	Compliance Project:	Δ Yes Δ No	阿拉	91		
Email:	Po#: Purchase Order not		nat di			F-MaOH R-Na25203
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	Project #: 59002658	The second second	Yes	Mang	ьол	J-Di Water W-pH 4-5
The state of the s	SSOW#:		ple (hod MS on & M	Cart	L-EDA
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L	क्रा भारत	15	PIREPLYSHON GOOD X	X PUNE NEL ASIDE NEEDEN	1074	Special instructions/Note:
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Finance: 509-924-9200 Fax: 509-924-9290	Sampler:	lub PM:	Carrie	Carrier Tracking No(s):	COC No:
Client Contact		Arrington, Randee E			590-8951-2569.1
Justin Orr	Phone:	Randee Arringto	et eurofinsus.com	State of Origin:	Page: Page 1 of 11
GeoEngineers Inc	PWSID:	State State	Analysis Barriastad		Jab #:
523 East Second Ave	Due Date Requested:		The state of the s		Preservation Codes:
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WA, 99202	Compliance Braining &	2		100	
hone:	PO#:	- A			
Email:	Purchase Order not required	C			
orr@geoengineers.com	0504-058-07	arata d	anese unese		
oject Name:	Project #:	P	langs anga	d'	
Sta:	5900265B	_	TOC od S & M & Ma BD, 36	M.	L-EDA
	SSOWI		Method Gx_MS tal Iron is Iron	A con	Others
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Sample Identification	Sample	Įį.	060A - loistur 260D, l 00.8_C 00.8_C	SK_17	
13 (0 =	Rigitative	Ion Gode XX	N N A BIN N		opecial instructions/Note:
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18-12 (20-21-5)	1115	Solid			
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6-12 (21-5-29)	1 1145	Solid			
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Client Information	Sampler:		Arringtor	Leb PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-8951-2569.2	2
Ustin Orr	Phone:		E-Mail:	Arington au au annie au	State of Origin:	Page	
Geologineers inc		PWSID:	, V			Job 8:	Walter man
523 East Second Ave	Due Date Requested:	-	18.1		Analysis Requested	Preservation Codes:	den:
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WA, 99202				<u></u>		C-Zn Acetate	P - NaZOAS
hone:	lance Project:	A Yes A No				E - NaHSO4	Q-Na2SO3
mail	Purchase Order not required	equired			us .	F-MaOH	8 - H2SO4
orr@geoengineers.com	WO #:		(No)	nees.	_	H - Ascorbic Add	T - TSP Dodecahydrate U - Acetone
Wik Stop/0504-05-07	Project #:			3	00_0		W-MCAA
e:	59002658		on Care	TOC od s	8D, 30		Y - Trizms Z - other (specify)
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The Institute from	Sample Date TI	Time Gagrab	STOTIMEN AND	82600 9060/ Molst 82600 200.8	2320B 5310C		
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Non-Hazard Flammable Skin Irritant	Poison B Unknown	n Radiological	nical	Sample Disposal (A fee	may be assessed if sai	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	an 1 month)
, III, IV, C		- 1		Special Instructions/QC Requirements:	Disposel By La Requirements:	Archive For	Months
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sinquared by:	Date/Time:		Company	Received by:		Date/Time:	Company
Custody Seals Intact: Custody Seal No.:	To the second se					,	

Sporane, WA 99208 Phone: 509-924-9200 Fax: 509-924-9290		Chain of Castody Record	Kecord		
Client Information	Sampler Water Otrolic		Arrington Randon E	Carrier Tracking No(s):	
Justin Orr	Phone:	E-Mail:	de Andrei	State of Origin:	590-8951-2569.4
GeoEngineers Inc		PWSID:	Com Gerantonneus Com		Page 4 of 11
Address: 523 East Second Ave	Due Dala Requested:		Analysis Requested		
City: Spokane	TAT Requested (days):	\$)	201	8
Size, Zp: WA, 99202		1-	0		B-NeOH N-None C-Zn Acetate O-AuNaO2 P-Ne2O46
Phone:	PO #:	A No			
maik	Purchase Order not required	ired	1 6	EP	
orr@geoengineers.com	0504-058-07		anese		
Kwik Stop/0504-05-07	Project 8: 59002658	See See	/7	400	J - DI Water K - EDTA
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	591777	Sample Matrix	MYPH_G Btandard - Local ii WYPH_G WA - Total WA - Diss	otal Orga - Methan	
Sample Identification	Sample Date Time	0.3	8250D, 9060A - Moistur 8250D, 200.8_C	6310C . RSK_17/	
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Cooler Temperature(s) °C and Other Remarks:

Eurofins Spokane

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Spokane, WA 99206)			citatii oi custouy necoru	2	3			Ĺ						Environment Testing
Phone: 509-924-9200 Fax: 509-924-9290										91					
(4e I toestac) di Si noitemant lab	Sampler:			Lab PM	Lab PM: Arrington Pandee E	П 000			Carrie	Carrier Tracking No(s)	Vo(s):		COC No:		
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Company: TestAmerica Laboratories, Inc.				<i>y</i>	ccreditation	ons Requir	Accreditations Required (See note): State Program - Washington	;; ⊑					Job #: 590-21723-1		
Address: 4955 Varrow Street	Due Date Requested:						Ì	l diam	Andreas Dominator	3			Preservation Codes:	Sodes:	
City:	TAT Requested (days):	s):							sed nes				A - HCL B - NaOH	M - Hexane N - None O - AsNaO3	ane e anno
State 20: CO, 80 202			,										C - Zn Acetate D - Nitric Acid E - NaHSO4	P - Na2048 Q - Na2S03	048 SO3
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO#:				-								F - MeOH G - Amchlor H - Assorbic Acid		R - NazSzO3 S - H2SO4 T - TSP Dodecahydrate
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Project Name: Kwik Stop/0504-05-07	Project #: 59002658			3.5,7 0	6s or)	alle						nənistı	K - EDTA L - EDA	Y - Trizma Y - Trizma Z - other (sp	vv - pri 4-5 Y - Trizma Z - other (specify)
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Sample Identification - Client ID (Lab ID)	Sample Date	Time		-	Pel	ICN I					+	IoT	Special	Special Instructions/Note:	ons/Note:
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MW-18:091523 (590-21723-29)	9/15/23	10:57 Pacific		Water		×						က			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC and the provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.	nt Testing Northwest, LL alysis/tests/matrix being on immediately. If all re	C places the canalyzed, the quested accre	ownership of m s samples mus ditations are c	nethod, analyte & st be shipped bac urrent to date, rei	accredita	tion compli urofins Env gned Chair	ance upon o ironment Te of Custody	ur subcont sting North attesting t	ract labora west, LLC o said com	tories. This laboratory of soliance to E	sample sh or other inst urofins Env	pment is for ructions wi ironment T	orwarded under chall be provided. An esting Northwest,	nain-of-custoc ly changes to LLC.	y. If the laboratory accreditation
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11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record



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Phone: 509-924-9200 Fax: 509-924-9290									Environment lessin								ent resting				
Client Information (Sub Contract Lab)	Sampler:			Lab Arri		n, Ran	dee I				··		Carr	ier Tra	king	No(s):			COC No: 590-8256.1		
Client Contact: Shipping/Receiving	Phone:			E-Ma Rar		Arring	ton@	et.eu	rofin	isus.c	om		F	of Ori shing	_				Page: Page 1 of 1		
Company: Eurofins Environment Testing Northwest,						reditatio te Pro													Job#:		
Address: 5755 8th Street East,	Due Date Request	ed:		-	10.0		gram	- 770		naly	nio.	Don.							590-21723-1 Preservation Co		***************************************
City. Tacoma	TAT Requested (d	ays):	***************************************				T	T	Γ	liaiy	313	Ned	ues	leu			T		A - HCL B - NaOH	M - Hexane N - None O - AsNaO2	
State, Zip: WA, 98424					П	at a													C - Zn Acetate D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2S2O3	ı
Phone: 253-922-2310(Tel)	PO#:				ٳٳ	a Iron	s Iron 8						i						F - MeOH G - Amchior H - Ascorbic Acid	S - H2SO4 T - TSP Dode	
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Project Name: Kwik Stop/0504-05-07 Site	Project #: 59002658						ON (MC	Carbon										ntaine	K - EDTA L - EDA	Y - Trizma Z - other (spec	cify)
one.	ssow#:						IRAT	Organic										Ş	Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type	Matrix (Wowater, Sesolid, Dewaste/oil, Tissue, A=Air)	Field Filtered	200.8 CWA/200	200.8 CWA/FILTRATION (MOD) Diss	Total										Total Number	Special Ir	structions/N	lote [,]
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ote: Since laboratory accreditations are subject to change, Eurofins Environment oes not currently maintain accreditation in the State of Origin listed above for anal latus should be brought to Eurofins Environment Testing Northwest, LLC attention	vassieatsimatrix bein	o anaivzed the	i samnies must be	sounned ha	rik to t	ha Fur	ntine Fr	within	nant 1	Taction	ないっぺい	unact i	1101	aharak		ather is		الدر حمد			e laboratory itation
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11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290 **Chain of Custody Record**



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Environment Testing

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Client Information (Sub Contract Lab)	Sampler:				ab PM: .rringt		ande	еE					Car	rier Tr	acking	g No(s	} :			COC No: 590-8256.1		
Client Contact: Shipping/Receiving	Phone:				Mail: lande	e Arris	notor	∆@et	euro	finsus	com			te of O						Page: Page 1 of 1		
Company:						credita								ı Ormini	3001						**************************************	
Eurofins Environment Testing Northwest,		W-64				tate P														Job #: 590-21723-1		
Address: 5755 8th Street East,	Due Date Reques 10/2/2023	ted:								Ana	lysis	Re	ane	sted	ì					Preservation Co.		***************************************
City: Tacoma State, Zip:	TAT Requested (d	ays):									ly Glo		100	1						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3	
WA, 98424 Phone: 253-922-2310(Tel)	PO #:				-		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5												E - NaHSO4 F - MeOH G - Amchtor	R - Na2S2O3 S - H2SO4	
233-322-2310(rel) Email:	WO #:				⊣ §	SIMSD (Yes or No)	se A/FILTRATION (MOD) Diss Iron &													H - Ascorbic Acid I - Ice	T - TSP Dodecahy U - Acetone V - MCAA	ydrate
Project Name:	Project #:				⊣ ĕ	NO)	CON		5								İ		20	J - DI Water K - EDTA	W - pH 4-5 Y - Trizma	
Kwik Stop/0504-05-07	59002658					8	NO		Carbon					Ì					Ì	Ł-EDA	Z - other (specify)	
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time		Matrix (Wewater, Sesolid, O=waste/oif, BT=Tissue, Ar-/		2 8	Manganese 200.8 CWA/FILT	<u> </u>	מכי ו סניפו										Total Number	Special In	structions/Note	e:
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Ver: 06/08/2021

11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



🔆 eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler:		********		ab PM Arring		Panda	e E					C	атіе	Track	ing N	o(s):			COC No:			
Client Contact:	Phone:			E	-Mail:									tate o	f Origi	in:	··········			590-8262.1 Page:			
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Eurofins Environment Testing Northwest,									iired (S Wasi											Job #: 590-21723-1			
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Tacoma								ļ												B - NaOH C - Zn Acetate	O - AsN	NaO2	
State, Zip: NA, 98424												İ								D - Nitric Acid E - NaHSO4	P - Na2 Q - Na2 R - Na2	2503	
Phone: 253-922-2310(Tel)	PO#:														ĺ	f				F - MeOH G - Amchior	S - H2S		leata
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Client: GeoEngineers Inc Job Number: 590-21723-1

Login Number: 21723 List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

Oroutor: morrio, madicinato r		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: GeoEngineers Inc

Job Number: 590-21723-1

List Source: Eurofins Denver
List Number: 3
List Creation: 09/20/23 01:31 PM

Creator: Little, Matthew L

oreator. Entire, matthew E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 590-21723-1

Client: GeoEngineers Inc

List Source: Eurofins Seattle
List Number: 2
List Creation: 09/19/23 03:18 PM

Creator: Groves, Elizabeth

Creator: Groves, Elizabeth		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 0.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: GeoEngineers Inc

Job Number: 590-21723-1

Login Number: 21723 List Source: Eurofins Seattle
List Number: 4 List Creation: 09/20/23 01:15 PM

Creator: Groves, Elizabeth

Creator. Groves, Elizabeth		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9 2.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Orr GeoEngineers Inc 523 East Second Ave Spokane, Washington 99202

Generated 12/16/2023 1:28:40 PM Revision 1

JOB DESCRIPTION

Ione Airport Kwik Stop/0504-058-07

JOB NUMBER

590-22374-1

Eurofins Spokane 11922 East 1st Ave Spokane WA 99206



Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

Generated 12/16/2023 1:28:40 PM Revision 1

Authorized for release by Randee Arrington, Business Unit Manager Randee.Arrington@et.eurofinsus.com (509)924-9200

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Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Laboratory Job ID: 590-22374-1

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Case Narrative

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-22374-1

REVISION

The report being provided is a revision of the original report sent on 12/14/2023. The report (revision 1) is being revised due to the following: the project description was revised per the client's request.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/30/2023 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 590-45001 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 590-45001 recovered outside control limits for the following analytes: 2,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2320B: The method blank for analytical batch 590-45031 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 590-22374-1

Sample Summary

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-22374-1	MW-3: 113023	Water	11/30/23 10:45	11/30/23 15:14
590-22374-2	MW-8: 113023	Water	11/30/23 12:15	11/30/23 15:14
590-22374-3	MW-9: 113023	Water	11/30/23 09:10	11/30/23 15:14
590-22374-4	MW-10: 112923	Water	11/29/23 13:50	11/30/23 15:14
590-22374-5	MW-11: 112923	Water	11/29/23 12:50	11/30/23 15:14
590-22374-6	MW-15: 112923	Water	11/29/23 11:20	11/30/23 15:14
590-22374-7	MW-18: 112923	Water	11/29/23 14:50	11/30/23 15:14
590-22374-8	DUP 1: 113023	Water	11/30/23 09:00	11/30/23 15:14

Job ID: 590-22374-1

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Definitions/Glossary

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-3: 113023

Lab Sample ID: 590-22374-1 Date Collected: 11/30/23 10:45

Matrix: Water

Date Received: 11/30/23 15:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L		<u> </u>	12/08/23 15:13	
1,1,1-Trichloroethane	ND		1.0		ug/L			12/08/23 15:13	
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 15:13	
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 15:13	
1,1-Dichloroethane	ND		1.0	0.29	-			12/08/23 15:13	
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 15:13	
1,2,3-Trichlorobenzene	ND		1.0	0.33	-			12/08/23 15:13	
I,2,3-Trichloropropane	ND		2.0	0.50	_			12/08/23 15:13	
I,2,4-Trichlorobenzene	ND		1.0	0.50				12/08/23 15:13	
I,2,4-Trimethylbenzene	5.0		1.0	0.31	_			12/08/23 15:13	
I,2-Dibromo-3-Chloropropane	2.6	J	10		ug/L			12/08/23 15:13	
I,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/08/23 15:13	
1,2-Dichlorobenzene	ND		1.0	0.23	-			12/08/23 15:13	
1,2-Dichloroethane	ND		1.0		ug/L			12/08/23 15:13	
I,2-Dichloropropane	ND		1.0	0.23				12/08/23 15:13	
1,3,5-Trimethylbenzene	41		1.0	0.32	-			12/08/23 15:13	
,3-Dichlorobenzene	ND		1.0	0.14	-			12/08/23 15:13	
,3-Dichloropropane	ND		2.0	0.21				12/08/23 15:13	
,4-Dichlorobenzene	ND		1.0	0.28	-			12/08/23 15:13	
2.2-Dichloropropane	ND	*+	2.0	0.66	-			12/08/23 15:13	
-Chlorotoluene	ND	.	1.0	0.36	-			12/08/23 15:13	
-Chlorotoluene	ND		1.0	0.26				12/08/23 15:13	
Benzene	ND		0.40	0.093	-			12/08/23 15:13	
Bromobenzene	ND		1.0	0.033	-			12/08/23 15:13	
Bromochloromethane	ND		2.0	0.20	-			12/08/23 15:13	
Bromodichloromethane	ND ND		1.0	0.44	•			12/08/23 15:13	
Bromoform	ND		5.0	0.29				12/08/23 15:13	
Bromomethane	ND ND		5.0		-			12/08/23 15:13	
Carbon tetrachloride	ND ND		1.0	0.76	-			12/08/23 15:13	
	ND			0.40				12/08/23 15:13	
Chlorobenzene			1.0	0.32	-			12/08/23 15:13	
Chloroethane Chloroform	1.5	J	2.0		ug/L				
	ND		1.0		ug/L			12/08/23 15:13	
Chloromethane	0.57	J	3.0		ug/L			12/08/23 15:13	
is-1,2-Dichloroethene	ND		1.0	0.23	_			12/08/23 15:13	
sis-1,3-Dichloropropene	ND		1.0		ug/L			12/08/23 15:13	
Dibromochloromethane	ND		2.0		ug/L			12/08/23 15:13	
Dibromomethane	ND		2.0		ug/L			12/08/23 15:13	
Dichlorodifluoromethane	ND		2.0		ug/L			12/08/23 15:13	
Ethylbenzene	1.9		1.0		ug/L			12/08/23 15:13	
lexachlorobutadiene	ND		2.0		ug/L			12/08/23 15:13	
sopropylbenzene	3.1		1.0		ug/L			12/08/23 15:13	
n,p-Xylene	5.1		2.0		ug/L			12/08/23 15:13	
Methyl tert-butyl ether	ND		1.0		ug/L			12/08/23 15:13	
Methylene Chloride	ND		5.0		ug/L			12/08/23 15:13	
laphthalene	3.6		2.0		ug/L			12/08/23 15:13	
n-Butylbenzene	5.7		1.0		ug/L			12/08/23 15:13	
N-Propylbenzene	5.6		1.0	0.25	ug/L			12/08/23 15:13	

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-3: 113023

Date Collected: 11/30/23 10:45 Date Received: 11/30/23 15:14

Analyte

Lab Sample ID: 590-22374-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	1.9		1.0	0.27	ug/L			12/08/23 15:13	1
sec-Butylbenzene	2.7		1.0	0.22	ug/L			12/08/23 15:13	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 15:13	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 15:13	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 15:13	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 15:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 15:13	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 15:13	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120					12/08/23 15:13	1
4-Bromofluorobenzene (Surr)	101		76 - 120					12/08/23 15:13	1
Dibromofluoromethane (Surr)	103		80 - 123					12/08/23 15:13	1
Toluene-d8 (Surr)	95		80 - 120					12/08/23 15:13	1

Analyte Gasoline	Result 540	Qualifier	150 RL	Unit ug/L	<u>D</u>	Prepared	Analyzed 12/08/23 15:13	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 68.7 - 141			Prepared	Analyzed 12/08/23 15:13	Dil Fac
Method: RSK-175 - Dissolv		1	68.7 - 141				12/08/23 15:13	

RL

MDL Unit

Prepared

Methane	ND ND	5.0	0.63	ug/L		-	12/02/23 22:04	1
Method: EPA 300.0 - A	Anions, Ion Chromatography							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64	0.80	0.42	mg/L			12/01/23 13:55	1
Nitrate as N	0.32	0.20	0.057	mg/L			12/01/23 13:55	1
Nitrite as N	ND	0.20	0.069	mg/L			12/01/23 13:55	1
Sulfate	14	0.50	0.13	ma/L			12/01/23 13:55	1

Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:24	5
Cadmium	0.00031	J	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:24	5
Iron	9.7		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:24	5
Lead	0.0014	J	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:24	5
Manganese	0.69		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:24	5
Zinc	0.019	J	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:24	5

Method: SW846 6020	B - Metals (ICP/MS)	- Dissolved	l						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 16:29	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 16:29	5
Iron	0.085	J	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 16:29	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 16:29	5

Eurofins Spokane

12/16/2023 (Rev. 1)

5

11

4 4

12

12

Dil Fac

Analyzed

Job ID: 590-22374-1 Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-3: 113023

Lab Sample ID: 590-22374-1

Date Collected: 11/30/23 10:45 **Matrix: Water** Date Received: 11/30/23 15:14

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.70		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 16:29	5
Zinc	ND		0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 16:29	5

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	290	В	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	290	В	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	470		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	2.7		1.0	0.35	mg/L			12/09/23 06:59	1

Client Sample ID: MW-8: 113023 Lab Sample ID: 590-22374-2

Date Collected: 11/30/23 12:15 **Matrix: Water**

Date Received: 11/30/23 15:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.48	ug/L			12/08/23 15:56	1
1,1,1-Trichloroethane	ND		1.0	0.17	ug/L			12/08/23 15:56	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	ug/L			12/08/23 15:56	1
1,1,2-Trichloroethane	ND		2.0	0.43	ug/L			12/08/23 15:56	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/08/23 15:56	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 15:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			12/08/23 15:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.33	ug/L			12/08/23 15:56	1
1,2,3-Trichloropropane	ND		2.0	0.50	ug/L			12/08/23 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L			12/08/23 15:56	1
1,2,4-Trimethylbenzene	19		1.0	0.31	ug/L			12/08/23 15:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			12/08/23 15:56	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			12/08/23 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			12/08/23 15:56	1
1,2-Dichloroethane	ND		1.0	0.31	ug/L			12/08/23 15:56	1
1,2-Dichloropropane	ND		1.0	0.23	ug/L			12/08/23 15:56	1
1,3,5-Trimethylbenzene	16		1.0	0.32	ug/L			12/08/23 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.14	ug/L			12/08/23 15:56	1
1,3-Dichloropropane	ND		2.0	0.21	ug/L			12/08/23 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/08/23 15:56	1
2,2-Dichloropropane	ND	*+	2.0	0.66	ug/L			12/08/23 15:56	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 15:56	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 15:56	1
Benzene	0.67		0.40	0.093	ug/L			12/08/23 15:56	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 15:56	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 15:56	1
Bromodichloromethane	0.29	J	1.0	0.29	ug/L			12/08/23 15:56	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 15:56	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 15:56	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 15:56	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 15:56	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 15:56	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 15:56	1

Client Sample ID: MW-8: 113023

Date Collected: 11/30/23 12:15 Date Received: 11/30/23 15:14

Sulfate

Lab Sample ID: 590-22374-2

Matrix: Water

Method: SW846 8260D - Vo Analyte		Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	- Qualifier	3.0		ug/L		i iepaieu	12/08/23 15:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/08/23 15:56	 1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/08/23 15:56	1
Dibromochloromethane	ND		2.0		ug/L			12/08/23 15:56	· · · · · · · · · · · · · · · · · · ·
Dibromomethane	ND		2.0		ug/L			12/08/23 15:56	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/08/23 15:56	1
Ethylbenzene	0.48		1.0		ug/L			12/08/23 15:56	· · · · · · · · · · · · · · · · · · ·
Hexachlorobutadiene	ND	•	2.0		ug/L			12/08/23 15:56	1
Isopropylbenzene	0.69	1	1.0		ug/L			12/08/23 15:56	1
m,p-Xylene	1.8		2.0		ug/L			12/08/23 15:56	· · · · · · · · · · · · · · · · · · ·
Methyl tert-butyl ether	ND	•	1.0		ug/L			12/08/23 15:56	1
Methylene Chloride	ND		5.0		ug/L			12/08/23 15:56	1
Naphthalene	0.82		2.0		ug/L			12/08/23 15:56	
n-Butylbenzene	0.83		1.0		ug/L			12/08/23 15:56	1
N-Propylbenzene	2.4		1.0		ug/L ug/L			12/08/23 15:56	1
o-Xylene	ND		1.0		ug/L			12/08/23 15:56	
p-Isopropyltoluene	0.70		1.0		ug/L			12/08/23 15:56	1
sec-Butylbenzene	0.83		1.0		ug/L			12/08/23 15:56	1
Styrene	ND		1.0		ug/L			12/08/23 15:56	
•	2.8		1.0		ug/L ug/L			12/08/23 15:56	1
tert-Butylbenzene Tetrachloroethene	2.6 ND		1.0		ug/L ug/L			12/08/23 15:56	1
Toluene	ND		1.0		ug/L ug/L			12/08/23 15:56	
trans-1,2-Dichloroethene	ND ND		1.0		-				1
<i>'</i>	ND ND		1.0		ug/L			12/08/23 15:56	1
trans-1,3-Dichloropropene Trichloroethene	ND		1.0		ug/L ug/L			12/08/23 15:56 12/08/23 15:56	
	ND ND		1.0		-				•
Trichlorofluoromethane					ug/L			12/08/23 15:56	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120			=	-	12/08/23 15:56	1
4-Bromofluorobenzene (Surr)	99		76 - 120					12/08/23 15:56	1
Dibromofluoromethane (Surr)	99		80 - 123					12/08/23 15:56	1
Toluene-d8 (Surr)	96		80 - 120					12/08/23 15:56	1
:									
Method: NWTPH-Gx - North			•	•		_			
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	380		150	54	ug/L			12/08/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	Quannon	68.7 - 141			-	7 Toparou	12/08/23 15:56	1
. Siemenaeresenzene (ean)			00.7 = 7.77					12/00/20 70:00	•
	ed Gases (GC)							
Method: RSK-175 - Dissolv	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifici							
Analyte	Result 3.1		5.0	0.63	ug/L			12/02/23 22:17	1
Analyte Methane	3.1	J		0.63	ug/L			12/02/23 22:17	1
Analyte Methane : Method: EPA 300.0 - Anions	3.1 s, Ion Chroma	J tography	5.0		-	n	Prenared		
Analyte Methane Method: EPA 300.0 - Anions Analyte	3.1 s, Ion Chroma Result	J tography Qualifier	5.0	MDL	Unit	<u>D</u> .	Prepared	Analyzed	Dil Fac
Method: RSK-175 - Dissolv Analyte Methane Method: EPA 300.0 - Anions Analyte Chloride Nitrate as N	3.1 s, Ion Chroma	J tography Qualifier	5.0	MDL	Unit mg/L	<u>D</u> .	Prepared		

Eurofins Spokane

12/05/23 15:07

5.0

430

1.3 mg/L

Client Sample ID: MW-8: 113023 Lab Sample ID: 590-22374-2

Date Collected: 11/30/23 12:15 Matrix: Water

Date Received: 11/30/23 15:14

Method: SW846 6020B - Metals (IC	P/MS)	- Total Rec	overable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0060		0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:27	5
Cadmium	0.00019	J	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:27	5
Iron	1.8		0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:27	5
Lead	0.00067	J	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:27	5
Manganese	1.2		0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:27	5
Zinc	0.0055	J	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:27	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014	J	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 16:32	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 16:32	5
Iron	0.085	J	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 16:32	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 16:32	5
Manganese	1.6		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 16:32	5
Zinc	0.0055	J	0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 16:32	5

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	420	В	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	420	В	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	800		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	3.4		1.0	0.35	mg/L			12/08/23 23:03	1

Client Sample ID: MW-9: 113023

Date Collected: 11/30/23 09:10

Lab Sample ID: 590-22374-3

Matrix: Water

Date Received: 11/30/23 15:14

Analyte	Result Quali	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	0.48	ug/L			12/08/23 16:39	1
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L			12/08/23 16:39	1
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L			12/08/23 16:39	1
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L			12/08/23 16:39	1
1,1-Dichloroethane	ND	1.0	0.29	ug/L			12/08/23 16:39	1
1,1-Dichloroethene	ND	1.0	0.20	ug/L			12/08/23 16:39	1
1,1-Dichloropropene	ND	1.0	0.50	ug/L			12/08/23 16:39	1
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L			12/08/23 16:39	1
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L			12/08/23 16:39	1
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L			12/08/23 16:39	1
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L			12/08/23 16:39	1
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L			12/08/23 16:39	1
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L			12/08/23 16:39	1
1,2-Dichlorobenzene	ND	1.0	0.23	ug/L			12/08/23 16:39	1
1,2-Dichloroethane	ND	1.0	0.31	ug/L			12/08/23 16:39	1
1,2-Dichloropropane	ND	1.0	0.23	ug/L			12/08/23 16:39	1
1,3,5-Trimethylbenzene	ND	1.0	0.32	ug/L			12/08/23 16:39	1
1,3-Dichlorobenzene	ND	1.0	0.14	ug/L			12/08/23 16:39	1
1,3-Dichloropropane	ND	2.0	0.21	ug/L			12/08/23 16:39	1
1,4-Dichlorobenzene	ND	1.0	0.28	ug/L			12/08/23 16:39	1

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-9: 113023

Date Received: 11/30/23 15:14

Toluene-d8 (Surr)

Date Collected: 11/30/23 09:10

Lab Sample ID: 590-22374-3

Matrix: Water

Method: SW846 8260D Analyte		Qualifier	RL	-	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		2.0	0.66			riepaieu	12/08/23 16:39	1
2-Chlorotoluene	ND		1.0		ug/L			12/08/23 16:39	
4-Chlorotoluene	ND.		1.0		ug/L			12/08/23 16:39	1
Benzene	ND		0.40	0.093	-			12/08/23 16:39	1
Bromobenzene	ND		1.0		ug/L			12/08/23 16:39	
Bromochloromethane	ND		2.0	0.44	-			12/08/23 16:39	1
Bromodichloromethane	ND		1.0		ug/L			12/08/23 16:39	1
Bromoform	ND		5.0		ug/L			12/08/23 16:39	· · 1
Bromomethane	ND		5.0		ug/L			12/08/23 16:39	1
Carbon tetrachloride	ND		1.0		ug/L			12/08/23 16:39	1
Chlorobenzene	ND		1.0		ug/L			12/08/23 16:39	· · · · · · · · · · · · · · · · · · ·
Chloroethane	ND		2.0		ug/L			12/08/23 16:39	1
Chloroform	ND		1.0		ug/L			12/08/23 16:39	1
Chloromethane	ND		3.0		ug/L			12/08/23 16:39	· · 1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/08/23 16:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/08/23 16:39	1
Dibromochloromethane	ND		2.0		ug/L			12/08/23 16:39	
Dibromomethane	ND		2.0		ug/L			12/08/23 16:39	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/08/23 16:39	1
Ethylbenzene	ND		1.0		ug/L			12/08/23 16:39	
Hexachlorobutadiene	ND		2.0		ug/L			12/08/23 16:39	1
Isopropylbenzene	ND		1.0		ug/L			12/08/23 16:39	1
m,p-Xylene	ND		2.0		ug/L			12/08/23 16:39	
Methyl tert-butyl ether	ND ND		1.0		ug/L			12/08/23 16:39	1
Methylene Chloride	ND		5.0		ug/L			12/08/23 16:39	1
Naphthalene	ND		2.0	0.63				12/08/23 16:39	 1
n-Butylbenzene	ND		1.0	0.20	-			12/08/23 16:39	1
N-Propylbenzene	ND		1.0		ug/L			12/08/23 16:39	1
o-Xylene	ND		1.0		ug/L			12/08/23 16:39	· · 1
p-Isopropyltoluene	ND		1.0	0.27	-			12/08/23 16:39	1
sec-Butylbenzene	ND		1.0	0.22	-			12/08/23 16:39	1
Styrene	ND		1.0		ug/L			12/08/23 16:39	· · 1
tert-Butylbenzene	ND		1.0	0.12				12/08/23 16:39	1
Tetrachloroethene	ND		1.0	0.12				12/08/23 16:39	1
Toluene	ND		1.0		ug/L			12/08/23 16:39	
trans-1,2-Dichloroethene	ND ND		1.0	0.20				12/08/23 16:39	1
trans-1,3-Dichloropropene	ND ND		1.0		ug/L			12/08/23 16:39	1
Trichloroethene	ND		1.0		ug/L			12/08/23 16:39	· · · · · · · 1
Trichlorofluoromethane	ND ND		1.0		ug/L			12/08/23 16:39	1
Vinyl chloride	ND		0.40		ug/L			12/08/23 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120			•		12/08/23 16:39	1
4-Bromofluorobenzene (Surr)	102		76 - 120					12/08/23 16:39	1
Dibromofluoromethane (Surr)	106		80 ₋ 123					12/08/23 16:39	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline	ND		150	54	ug/L			12/08/23 16:39	1			

80 - 120

104

Eurofins Spokane

12/08/23 16:39

Sulfate

Client Sample ID: MW-9: 113023

Date Collected: 11/30/23 09:10 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-3

12/01/23 14:15

Matrix: Water

Job ID: 590-22374-1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141			•		12/08/23 16:39	1
Method: RSK-175 - Dissolved	Gases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.63	ug/L			12/02/23 22:31	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		0.80	0.42	mg/L			12/01/23 14:15	1
Nitrate as N	4.1		0.20	0.057	mg/L			12/01/23 14:15	1
Nitrite as N	ND		0.20	0.069	mg/L			12/01/23 14:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable												
Analyte Re	sult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Arsenic	ND	0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:22	5				
Cadmium	ND	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:22	5				
Iron).11 J	0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:22	5				
Lead	ND	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:22	5				
Manganese 0	080	0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:22	5				
Zinc	ND	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:22	5				

0.50

0.13 mg/L

Analyte	Result	Qualifier	RL MD	L Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.00	50 0.001	0 mg/L		12/08/23 15:08	12/11/23 16:21	5
Cadmium	ND	0.00	20 0.0001	9 mg/L		12/08/23 15:08	12/11/23 16:21	5
Iron	ND	0.	50 0.06	7 mg/L		12/08/23 15:08	12/11/23 16:21	5
Lead	ND	0.00	20 0.0002	0 mg/L		12/08/23 15:08	12/11/23 16:21	5
Manganese	ND	0.0	10 0.002	3 mg/L		12/08/23 15:08	12/11/23 16:21	5
Zinc	ND	0.0	35 0.004	6 mg/L		12/08/23 15:08	12/11/23 16:21	5

General Chemistry Analyte	Rosult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	210		20		mg/L		Tieparea	12/11/23 11:29	1
	210	В			U			, ,	
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210	В	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	330		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	ND		1.0	0.35	mg/L			12/08/23 23:30	1

Client Sample ID: MW-10: 112923

Date Collected: 11/29/23 13:50

Lab Sample ID: 590-22374-4

Matrix: Water

Date Received: 11/30/23 15:14

Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	1.0	0.48	ug/L			12/08/23 17:01	1
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L			12/08/23 17:01	1
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L			12/08/23 17:01	1
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L			12/08/23 17:01	1
1,1-Dichloroethane	ND	1.0	0.29	ug/L			12/08/23 17:01	1
1,1-Dichloroethene	ND	1.0	0.20	ug/L			12/08/23 17:01	1

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-10: 112923

Lab Sample ID: 590-22374-4 Date Collected: 11/29/23 13:50 **Matrix: Water**

Date Received: 11/30/23 15:14

Analyte	Result Qu		MDL		D	Prepared	Analyzed	Dil Fa
1,1-Dichloropropene	ND	1.0	0.50	ug/L			12/08/23 17:01	
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L			12/08/23 17:01	
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L			12/08/23 17:01	
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L			12/08/23 17:01	
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L			12/08/23 17:01	
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L			12/08/23 17:01	
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L			12/08/23 17:01	
1,2-Dichlorobenzene	ND	1.0	0.23	ug/L			12/08/23 17:01	
1,2-Dichloroethane	ND	1.0	0.31	ug/L			12/08/23 17:01	
1,2-Dichloropropane	ND	1.0	0.23	ug/L			12/08/23 17:01	
1,3,5-Trimethylbenzene	ND	1.0	0.32	ug/L			12/08/23 17:01	
1,3-Dichlorobenzene	ND	1.0	0.14	-			12/08/23 17:01	
1,3-Dichloropropane	ND	2.0	0.21				12/08/23 17:01	
1,4-Dichlorobenzene	ND	1.0	0.28	_			12/08/23 17:01	
2,2-Dichloropropane	ND *+	2.0	0.66	Ü			12/08/23 17:01	
2-Chlorotoluene	ND	1.0	0.36				12/08/23 17:01	
4-Chlorotoluene	ND	1.0	0.26	-			12/08/23 17:01	
Benzene	ND	0.40	0.093	-			12/08/23 17:01	
Bromobenzene	ND	1.0	0.28				12/08/23 17:01	
Bromochloromethane	ND	2.0	0.44	_			12/08/23 17:01	
Bromodichloromethane	ND	1.0	0.29	-			12/08/23 17:01	
Bromoform	ND	5.0	0.66				12/08/23 17:01	
Bromomethane	ND	5.0	0.76	-			12/08/23 17:01	
Carbon tetrachloride	ND ND	1.0	0.70	-			12/08/23 17:01	
Chlorobenzene	ND	1.0	0.40				12/08/23 17:01	
Chloroethane	ND ND	2.0		_				
Chloroform	ND ND		0.40	-			12/08/23 17:01	
		1.0	0.24				12/08/23 17:01	
Chloromethane	ND	3.0	0.50	_			12/08/23 17:01	
cis-1,2-Dichloroethene	ND	1.0	0.23	-			12/08/23 17:01	
cis-1,3-Dichloropropene	ND	1.0	0.25				12/08/23 17:01	
Dibromochloromethane	ND	2.0	0.33	-			12/08/23 17:01	
Dibromomethane	ND	2.0	0.50	-			12/08/23 17:01	
Dichlorodifluoromethane	ND	2.0	0.64				12/08/23 17:01	
Ethylbenzene	ND	1.0	0.20	-			12/08/23 17:01	
Hexachlorobutadiene	ND	2.0	0.21				12/08/23 17:01	
Isopropylbenzene	ND	1.0	0.24				12/08/23 17:01	
m,p-Xylene	ND	2.0		ug/L			12/08/23 17:01	
Methyl tert-butyl ether	ND	1.0		ug/L			12/08/23 17:01	
Methylene Chloride	ND	5.0	2.2	ug/L			12/08/23 17:01	
Naphthalene	ND	2.0	0.63	ug/L			12/08/23 17:01	
n-Butylbenzene	ND	1.0	0.20	ug/L			12/08/23 17:01	
N-Propylbenzene	ND	1.0	0.25	ug/L			12/08/23 17:01	
o-Xylene	ND	1.0	0.16	ug/L			12/08/23 17:01	
p-Isopropyltoluene	ND	1.0	0.27	ug/L			12/08/23 17:01	
sec-Butylbenzene	ND	1.0	0.22	ug/L			12/08/23 17:01	
Styrene	ND	1.0	0.24	ug/L			12/08/23 17:01	
tert-Butylbenzene	ND	1.0	0.12	ug/L			12/08/23 17:01	
Tetrachloroethene	ND	1.0		ug/L			12/08/23 17:01	
Toluene	ND	1.0		ug/L			12/08/23 17:01	,

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-10: 112923

Date Collected: 11/29/23 13:50 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:01	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:01	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 17:01	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120			-		12/08/23 17:01	1
4-Bromofluorobenzene (Surr)	102		76 - 120					12/08/23 17:01	1
Dibromofluoromethane (Surr)	108		80 - 123					12/08/23 17:01	1
Toluene-d8 (Surr)	100		80 - 120					12/08/23 17:01	1

Method: NWTPH-Gx - North	nwest - Volatile	Petroleu	m Products (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			12/08/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141			·		12/08/23 17:01	1

Client Sample ID: MW-11: 112923 Lab Sample ID: 590-22374-5 **Matrix: Water**

Date Collected: 11/29/23 12:50

Date Received: 11/30/23 15:14

Analyte	Result Qual	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	1.0	0.48	ug/L			12/08/23 17:22	1
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L			12/08/23 17:22	1
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L			12/08/23 17:22	1
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L			12/08/23 17:22	1
1,1-Dichloroethane	ND	1.0	0.29	ug/L			12/08/23 17:22	1
1,1-Dichloroethene	ND	1.0	0.20	ug/L			12/08/23 17:22	1
1,1-Dichloropropene	ND	1.0	0.50	ug/L			12/08/23 17:22	1
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L			12/08/23 17:22	1
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L			12/08/23 17:22	1
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L			12/08/23 17:22	1
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L			12/08/23 17:22	1
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L			12/08/23 17:22	1
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L			12/08/23 17:22	1
1,2-Dichlorobenzene	ND	1.0	0.23	ug/L			12/08/23 17:22	1
1,2-Dichloroethane	ND	1.0	0.31	ug/L			12/08/23 17:22	1
1,2-Dichloropropane	ND	1.0	0.23	ug/L			12/08/23 17:22	1
1,3,5-Trimethylbenzene	ND	1.0	0.32	ug/L			12/08/23 17:22	1
1,3-Dichlorobenzene	ND	1.0	0.14	ug/L			12/08/23 17:22	1
1,3-Dichloropropane	ND	2.0	0.21	ug/L			12/08/23 17:22	1
1,4-Dichlorobenzene	ND	1.0	0.28	ug/L			12/08/23 17:22	1
2,2-Dichloropropane	ND *+	2.0	0.66	ug/L			12/08/23 17:22	1
2-Chlorotoluene	ND	1.0	0.36	ug/L			12/08/23 17:22	1
4-Chlorotoluene	ND	1.0	0.26	ug/L			12/08/23 17:22	1
Benzene	0.16 J	0.40	0.093	ug/L			12/08/23 17:22	1
Bromobenzene	ND	1.0	0.28	ug/L			12/08/23 17:22	1
Bromochloromethane	ND	2.0	0.44	ug/L			12/08/23 17:22	1

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-11: 112923

Lab Sample ID: 590-22374-5

Date Collected: 11/29/23 12:50 **Matrix: Water** Date Received: 11/30/23 15:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 17:22	
Bromoform	ND		5.0	0.66	ug/L			12/08/23 17:22	
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 17:22	
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 17:22	
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 17:22	
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 17:22	
Chloroform	ND		1.0	0.24	ug/L			12/08/23 17:22	
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 17:22	
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 17:22	
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 17:22	
Dibromochloromethane	ND		2.0	0.33	ug/L			12/08/23 17:22	
Dibromomethane	ND		2.0	0.50	ug/L			12/08/23 17:22	
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			12/08/23 17:22	
Ethylbenzene	ND		1.0	0.20	ug/L			12/08/23 17:22	
Hexachlorobutadiene	ND		2.0	0.21	ug/L			12/08/23 17:22	
Isopropylbenzene	ND		1.0		ug/L			12/08/23 17:22	
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 17:22	
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 17:22	
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 17:22	
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 17:22	
n-Butylbenzene	ND		1.0	0.20				12/08/23 17:22	
N-Propylbenzene	ND		1.0	0.25				12/08/23 17:22	
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 17:22	
p-Isopropyltoluene	ND		1.0		ug/L			12/08/23 17:22	
sec-Butylbenzene	ND		1.0		ug/L			12/08/23 17:22	
Styrene	ND		1.0		ug/L			12/08/23 17:22	
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 17:22	
Tetrachloroethene	ND		1.0		ug/L			12/08/23 17:22	
Toluene	ND		1.0	0.31	ug/L			12/08/23 17:22	
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:22	
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:22	
Trichloroethene	ND		1.0		ug/L			12/08/23 17:22	
Trichlorofluoromethane	ND		1.0		ug/L			12/08/23 17:22	
Vinyl chloride	ND		0.40		ug/L			12/08/23 17:22	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					12/08/23 17:22	-
4-Bromofluorobenzene (Surr)	101		76 - 120					12/08/23 17:22	
Dibromofluoromethane (Surr)	108		80 - 123					12/08/23 17:22	
Toluene-d8 (Surr)	101		80 - 120					12/08/23 17:22	

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline	ND		150	54	ug/L			12/08/23 17:22	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	101		68.7 - 141			-		12/08/23 17:22	1		

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-15: 112923

Date Received: 11/30/23 15:14

Lab Sample ID: 590-22374-6 Date Collected: 11/29/23 11:20

Matrix: Water

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil F
1,1,1,2-Tetrachloroethane	ND	1.0	0.48	ug/L			12/08/23 17:44	
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L			12/08/23 17:44	
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L			12/08/23 17:44	
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L			12/08/23 17:44	
1,1-Dichloroethane	ND	1.0	0.29	ug/L			12/08/23 17:44	
1,1-Dichloroethene	ND	1.0	0.20	ug/L			12/08/23 17:44	
1,1-Dichloropropene	ND	1.0	0.50	ug/L			12/08/23 17:44	
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L			12/08/23 17:44	
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L			12/08/23 17:44	
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L			12/08/23 17:44	
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L			12/08/23 17:44	
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L			12/08/23 17:44	
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L			12/08/23 17:44	
1,2-Dichlorobenzene	ND	1.0		ug/L			12/08/23 17:44	
1,2-Dichloroethane	ND	1.0		ug/L			12/08/23 17:44	
,2-Dichloropropane	ND	1.0		ug/L			12/08/23 17:44	
,3,5-Trimethylbenzene	ND	1.0		ug/L			12/08/23 17:44	
,3-Dichlorobenzene	ND	1.0		ug/L			12/08/23 17:44	
,3-Dichloropropane	ND	2.0		ug/L			12/08/23 17:44	
,4-Dichlorobenzene	ND	1.0		ug/L			12/08/23 17:44	
2,2-Dichloropropane	ND *+	2.0		ug/L			12/08/23 17:44	
-Chlorotoluene	ND	1.0		ug/L			12/08/23 17:44	
-Chlorotoluene	ND	1.0		ug/L			12/08/23 17:44	
Benzene	ND	0.40	0.093	•			12/08/23 17:44	
Bromobenzene	ND	1.0		ug/L			12/08/23 17:44	
Bromochloromethane	ND	2.0		ug/L			12/08/23 17:44	
Bromodichloromethane	ND	1.0		ug/L			12/08/23 17:44	
Bromoform	ND	5.0		ug/L			12/08/23 17:44	
Bromomethane	ND	5.0		ug/L			12/08/23 17:44	
Carbon tetrachloride	ND	1.0		ug/L			12/08/23 17:44	
Chlorobenzene	ND	1.0		ug/L			12/08/23 17:44	
Chloroethane	ND	2.0		ug/L			12/08/23 17:44	
Chloroform	ND	1.0		ug/L			12/08/23 17:44	
Chloromethane	ND ND	3.0		ug/L ug/L			12/08/23 17:44	
cis-1,2-Dichloroethene	ND ND	1.0		ug/L ug/L			12/08/23 17:44	
cis-1,3-Dichloropropene	ND	1.0		ug/L			12/08/23 17:44	
Dibromochloromethane	ND	2.0		ug/L			12/08/23 17:44	
Dibromomethane	ND ND	2.0		ug/L			12/08/23 17:44	
Dichlorodifluoromethane	ND	2.0		ug/L			12/08/23 17:44 12/08/23 17:44	
Ethylbenzene	ND ND	1.0		ug/L				
Hexachlorobutadiene	ND ND	2.0		ug/L			12/08/23 17:44	
sopropylbenzene	ND	1.0		ug/L			12/08/23 17:44	
n,p-Xylene	ND	2.0		ug/L			12/08/23 17:44	
Methyl tert-butyl ether	ND	1.0		ug/L			12/08/23 17:44	
Methylene Chloride	ND	5.0		ug/L			12/08/23 17:44	
Naphthalene	ND	2.0		ug/L			12/08/23 17:44	
n-Butylbenzene	ND	1.0		ug/L			12/08/23 17:44	
N-Propylbenzene o-Xylene	ND ND	1.0 1.0		ug/L ug/L			12/08/23 17:44 12/08/23 17:44	

Eurofins Spokane

12/16/2023 (Rev. 1)

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-15: 112923

Date Collected: 11/29/23 11:20 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	MD		1.0	0.27	ug/L			12/08/23 17:44	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 17:44	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 17:44	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 17:44	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 17:44	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 17:44	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 17:44	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 17:44	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 17:44	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120			•		12/08/23 17:44	1
4-Bromofluorobenzene (Surr)	99		76 - 120					12/08/23 17:44	1
Dibromofluoromethane (Surr)	104		80 - 123					12/08/23 17:44	1
Toluene-d8 (Surr)	100		80 - 120					12/08/23 17:44	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline	ND		150	54	ug/L			12/08/23 17:44	1		
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 68.7 - 141			-	Prepared	Analyzed 12/08/23 17:44	Dil Fac		

Client Sample ID: MW-18: 112923

Date Collected: 11/29/23 14:50

Lab Sample ID: 590-22374-7

Matrix: Water

Date Collected: 11/29/23 14:50 Date Received: 11/30/23 15:14

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND ND	1.0	0.48	ug/L			12/08/23 18:05	1
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L			12/08/23 18:05	1
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L			12/08/23 18:05	1
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L			12/08/23 18:05	1
1,1-Dichloroethane	ND	1.0	0.29	ug/L			12/08/23 18:05	1
1,1-Dichloroethene	ND	1.0	0.20	ug/L			12/08/23 18:05	1
1,1-Dichloropropene	ND	1.0	0.50	ug/L			12/08/23 18:05	1
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L			12/08/23 18:05	1
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L			12/08/23 18:05	1
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L			12/08/23 18:05	1
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L			12/08/23 18:05	1
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L			12/08/23 18:05	1
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L			12/08/23 18:05	1
1,2-Dichlorobenzene	ND	1.0	0.23	ug/L			12/08/23 18:05	1
1,2-Dichloroethane	ND	1.0	0.31	ug/L			12/08/23 18:05	1
1,2-Dichloropropane	ND	1.0	0.23	ug/L			12/08/23 18:05	1
1,3,5-Trimethylbenzene	ND	1.0	0.32	ug/L			12/08/23 18:05	1
1,3-Dichlorobenzene	ND	1.0	0.14	ug/L			12/08/23 18:05	1
1,3-Dichloropropane	ND	2.0	0.21	ug/L			12/08/23 18:05	1
1,4-Dichlorobenzene	ND	1.0	0.28	ug/L			12/08/23 18:05	1

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-18: 112923

Lab Sample ID: 590-22374-7 Date Collected: 11/29/23 14:50

Matrix: Water Date Received: 11/30/23 15:14

Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND	*+	2.0		ug/L			12/08/23 18:05	1
2-Chlorotoluene	ND		1.0	0.36	ug/L			12/08/23 18:05	1
4-Chlorotoluene	ND		1.0	0.26	ug/L			12/08/23 18:05	1
Benzene	ND		0.40	0.093	ug/L			12/08/23 18:05	1
Bromobenzene	ND		1.0	0.28	ug/L			12/08/23 18:05	1
Bromochloromethane	ND		2.0	0.44	ug/L			12/08/23 18:05	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/08/23 18:05	1
Bromoform	ND		5.0	0.66	ug/L			12/08/23 18:05	1
Bromomethane	ND		5.0	0.76	ug/L			12/08/23 18:05	1
Carbon tetrachloride	ND		1.0	0.40	ug/L			12/08/23 18:05	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/08/23 18:05	1
Chloroethane	ND		2.0	0.40	ug/L			12/08/23 18:05	1
Chloroform	ND		1.0	0.24	ug/L			12/08/23 18:05	1
Chloromethane	ND		3.0	0.50	ug/L			12/08/23 18:05	1
cis-1,2-Dichloroethene	ND		1.0	0.23	ug/L			12/08/23 18:05	1
cis-1,3-Dichloropropene	ND		1.0	0.25	ug/L			12/08/23 18:05	1
Dibromochloromethane	ND		2.0		ug/L			12/08/23 18:05	1
Dibromomethane	ND		2.0		ug/L			12/08/23 18:05	1
Dichlorodifluoromethane	ND		2.0		ug/L			12/08/23 18:05	1
Ethylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
Hexachlorobutadiene	ND		2.0		ug/L			12/08/23 18:05	1
Isopropylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
m,p-Xylene	ND		2.0	0.28	ug/L			12/08/23 18:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			12/08/23 18:05	1
Methylene Chloride	ND		5.0		ug/L			12/08/23 18:05	1
Naphthalene	ND		2.0		ug/L			12/08/23 18:05	1
n-Butylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
N-Propylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
o-Xylene	ND		1.0		ug/L			12/08/23 18:05	1
p-Isopropyltoluene	ND		1.0		ug/L			12/08/23 18:05	1
sec-Butylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
Styrene	ND		1.0		ug/L			12/08/23 18:05	1
tert-Butylbenzene	ND		1.0		ug/L			12/08/23 18:05	1
Tetrachloroethene	ND		1.0		ug/L			12/08/23 18:05	1
Toluene	ND		1.0		ug/L			12/08/23 18:05	1
trans-1,2-Dichloroethene	ND		1.0	0.20	-			12/08/23 18:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/08/23 18:05	1
Trichloroethene	ND		1.0		ug/L			12/08/23 18:05	1
Trichlorofluoromethane	ND		1.0		ug/L			12/08/23 18:05	1
Vinyl chloride	ND		0.40		ug/L			12/08/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120			-	-	12/08/23 18:05	1
4-Bromofluorobenzene (Surr)	100		76 - 120					12/08/23 18:05	1
	<u>.</u>								

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	80 - 120		12/08/23 18:05	1
4-Bromofluorobenzene (Surr)	100	76 - 120		12/08/23 18:05	1
Dibromofluoromethane (Surr)	107	80 - 123		12/08/23 18:05	1
Toluene-d8 (Surr)	101	80 - 120		12/08/23 18:05	1

Method: NWTPH-Gx - Northwe	st - Volatile Petrole	eum Products	(GC/MS)					
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND ND	150	54	ug/L			12/08/23 18:05	1

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-18: 112923

Lab Sample ID: 590-22374-7 Date Collected: 11/29/23 14:50

Matrix: Water

Date Received: 11/30/23 15:14

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 68.7 - 141 12/08/23 18:05

Client Sample ID: DUP 1: 113023 Lab Sample ID: 590-22374-8

Date Collected: 11/30/23 09:00 **Matrix: Water**

Date Received: 11/30/23 15:14

Method: SW846 8260D Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	ND		1.0	0.48		<u>-</u> -	opa. oa	12/08/23 18:27	
1,1,1-Trichloroethane	ND		1.0		ug/L			12/08/23 18:27	
1,1,2,2-Tetrachloroethane	ND		2.0	0.32	-			12/08/23 18:27	
1,1,2-Trichloroethane	ND		2.0	0.43	-			12/08/23 18:27	· · · · · · · .
1,1-Dichloroethane	ND		1.0	0.29				12/08/23 18:27	
1,1-Dichloroethene	ND		1.0	0.20	-			12/08/23 18:27	
1,1-Dichloropropene	ND		1.0	0.50				12/08/23 18:27	
1,2,3-Trichlorobenzene	ND		1.0	0.33	-			12/08/23 18:27	
1,2,3-Trichloropropane	ND		2.0	0.50	-			12/08/23 18:27	
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/08/23 18:27	
1,2,4-Trimethylbenzene	72		1.0		ug/L			12/08/23 18:27	
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			12/08/23 18:27	
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			12/08/23 18:27	
1,2-Dichlorobenzene	ND		1.0		ug/L			12/08/23 18:27	
1,2-Dichloroethane	ND		1.0	0.31	_			12/08/23 18:27	
1,2-Dichloropropane	ND		1.0	0.23				12/08/23 18:27	
1,3,5-Trimethylbenzene	65		1.0	0.32	-			12/08/23 18:27	
1,3-Dichlorobenzene	ND		1.0	0.14	-			12/08/23 18:27	
1,3-Dichloropropane	ND		2.0	0.21				12/08/23 18:27	
1,4-Dichlorobenzene	ND		1.0	0.28	_			12/08/23 18:27	
2,2-Dichloropropane	ND ND	*+	2.0	0.66	-			12/08/23 18:27	
2-Chlorotoluene	ND	:	1.0	0.36	-			12/08/23 18:27	· · · · · · .
1-Chlorotoluene	ND ND		1.0	0.26				12/08/23 18:27	
Benzene	ND ND		0.40	0.20	-			12/08/23 18:27	
Bromobenzene	ND		1.0	0.28				12/08/23 18:27	· · · · · · .
Bromochloromethane	ND ND		2.0	0.44	-			12/08/23 18:27	
Bromodichloromethane	0.45	1	1.0	0.29	-			12/08/23 18:27	
Bromoform	0.49 ND		5.0		ug/L ug/L			12/08/23 18:27	· · · · · · .
Bromomethane	ND ND		5.0	0.76	-			12/08/23 18:27	
Carbon tetrachloride	ND ND		1.0	0.40	-			12/08/23 18:27	
Chlorobenzene	ND							12/08/23 18:27	· · · · · · .
	ND ND		1.0	0.32	-				
Chloroethane			2.0 1.0	0.40 0.24	-			12/08/23 18:27 12/08/23 18:27	
Chloroform	0.52								
Chloromethane	ND		3.0	0.50	-			12/08/23 18:27	
cis-1,2-Dichloroethene	ND		1.0	0.23	Ū			12/08/23 18:27	
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/08/23 18:27	
Dibromochloromethane	ND		2.0		ug/L			12/08/23 18:27	•
Dibromomethane	ND		2.0		ug/L			12/08/23 18:27	•
Dichlorodifluoromethane	ND		2.0		ug/L			12/08/23 18:27	
Ethylbenzene	ND		1.0		ug/L			12/08/23 18:27	
Hexachlorobutadiene	ND		2.0		ug/L			12/08/23 18:27	
Isopropylbenzene	1.2		1.0	0.24	ug/L			12/08/23 18:27	

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: DUP 1: 113023

Date Collected: 11/30/23 09:00 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	0.30	J	2.0	0.28	ug/L			12/08/23 18:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/08/23 18:27	1
Methylene Chloride	ND		5.0	2.2	ug/L			12/08/23 18:27	1
Naphthalene	ND		2.0	0.63	ug/L			12/08/23 18:27	1
n-Butylbenzene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
N-Propylbenzene	4.5		1.0	0.25	ug/L			12/08/23 18:27	1
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 18:27	1
p-Isopropyltoluene	1.2		1.0	0.27	ug/L			12/08/23 18:27	1
sec-Butylbenzene	1.3		1.0	0.22	ug/L			12/08/23 18:27	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 18:27	1
tert-Butylbenzene	9.3		1.0	0.12	ug/L			12/08/23 18:27	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 18:27	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 18:27	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 18:27	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 18:27	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120			-		12/08/23 18:27	1
4-Bromofluorobenzene (Surr)	101		76 - 120					12/08/23 18:27	1
Dibromofluoromethane (Surr)	101		80 - 123					12/08/23 18:27	1
Toluene-d8 (Surr)	94		80 - 120					12/08/23 18:27	1

Analyte Gasoline	Result 1100	Qualifier	150 RL	Unit ug/L	D	Prepared	Analyzed 12/08/23 18:27	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 68.7 - 141			Prepared	Analyzed 12/08/23 18:27	Dil Fac

Method: RSK-175 - Dissolved	l Gases (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND —	5.0	0.63	ug/L			12/07/23 23:36	1
<u></u>								

Method: EPA 300.0 - Anions, Ion Chromatography										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	14		0.80	0.42	mg/L			12/01/23 14:25	1	
Nitrate as N	2.5		0.20	0.057	mg/L			12/01/23 14:25	1	
Nitrite as N	1.3		0.20	0.069	mg/L			12/01/23 14:25	1	
Sulfate	220		5.0	1.3	mg/L			12/05/23 15:17	10	

Analyte	Result Quali	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0052	0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 09:19	5
Cadmium	ND	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 09:19	5
Iron	0.98	0.50	0.067	mg/L		12/06/23 16:38	12/08/23 09:19	5
Lead	ND	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 09:19	5
Manganese	0.67	0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 09:19	5
Zinc	0.0050 J	0.035	0.0046	mg/L		12/06/23 16:38	12/08/23 09:19	5

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: DUP 1: 113023

Lab Sample ID: 590-22374-8

Date Collected: 11/30/23 09:00 **Matrix: Water** Date Received: 11/30/23 15:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0050	0.0010	mg/L		12/08/23 15:08	12/11/23 15:08	5
Cadmium	ND		0.0020	0.00019	mg/L		12/08/23 15:08	12/11/23 15:08	5
Iron	0.085	J	0.50	0.067	mg/L		12/08/23 15:08	12/11/23 15:08	5
Lead	ND		0.0020	0.00020	mg/L		12/08/23 15:08	12/11/23 15:08	5
Manganese	0.71		0.010	0.0023	mg/L		12/08/23 15:08	12/11/23 15:08	5
Zinc	ND		0.035	0.0046	mg/L		12/08/23 15:08	12/11/23 15:08	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	330	В	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	330	В	20	5.0	mg/L			12/11/23 11:29	1
Total Dissolved Solids (SM 2540C)	520		25	13	mg/L			12/04/23 09:53	1
Total Organic Carbon - Duplicates (SM 5310B)	3.4		1.0	0.35	mg/L			12/08/23 23:47	1

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-22374-1

RL

1.0

MDL Unit

0.48 ug/L

D

Prepared

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 8260D - Volatile Organic Compounds by GC/MS

MB MB

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Result Qualifier

Lab Sample ID: MB 590-45001/7

Matrix: Water

Analyte

Ethylbenzene

m,p-Xylene

Naphthalene

n-Butylbenzene

N-Propylbenzene

Hexachlorobutadiene

Methyl tert-butyl ether

Methylene Chloride

Isopropylbenzene

Analysis Batch: 45001

1,1,1,2-Tetrachloroethane

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed

12/08/23 12:39

·,·,·,= ··-·	· · · -			3		-
1,1,1-Trichloroethane	ND	1.0	0.17	ug/L	12/08/23 12:39	1
1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/L	12/08/23 12:39	1
1,1,2-Trichloroethane	ND	2.0	0.43	ug/L	12/08/23 12:39	1
1,1-Dichloroethane	ND	1.0	0.29	ug/L	12/08/23 12:39	1
1,1-Dichloroethene	ND	1.0	0.20	ug/L	12/08/23 12:39	1
1,1-Dichloropropene	ND	1.0	0.50	ug/L	12/08/23 12:39	1
1,2,3-Trichlorobenzene	ND	1.0	0.33	ug/L	12/08/23 12:39	1
1,2,3-Trichloropropane	ND	2.0	0.50	ug/L	12/08/23 12:39	1
1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/L	12/08/23 12:39	1
1,2,4-Trimethylbenzene	ND	1.0	0.31	ug/L	12/08/23 12:39	1
1,2-Dibromo-3-Chloropropane	ND	10	1.5	ug/L	12/08/23 12:39	1
1,2-Dibromoethane (EDB)	ND	1.0	0.20	ug/L	12/08/23 12:39	1
1,2-Dichlorobenzene	ND	1.0	0.23	ug/L	12/08/23 12:39	1
1,2-Dichloroethane	ND	1.0	0.31	ug/L	12/08/23 12:39	1
1,2-Dichloropropane	ND	1.0	0.23	ug/L	12/08/23 12:39	1
1,3,5-Trimethylbenzene	ND	1.0	0.32	ug/L	12/08/23 12:39	1
1,3-Dichlorobenzene	ND	1.0	0.14	ug/L	12/08/23 12:39	1
1,3-Dichloropropane	ND	2.0	0.21	ug/L	12/08/23 12:39	1
1,4-Dichlorobenzene	ND	1.0	0.28	ug/L	12/08/23 12:39	1
2,2-Dichloropropane	ND	2.0	0.66	ug/L	12/08/23 12:39	1
2-Chlorotoluene	ND	1.0	0.36	ug/L	12/08/23 12:39	1
4-Chlorotoluene	ND	1.0	0.26	ug/L	12/08/23 12:39	1
Benzene	ND	0.40	0.093	ug/L	12/08/23 12:39	1
Bromobenzene	ND	1.0	0.28	ug/L	12/08/23 12:39	1
Bromochloromethane	ND	2.0	0.44	ug/L	12/08/23 12:39	1
Bromodichloromethane	ND	1.0	0.29	ug/L	12/08/23 12:39	1
Bromoform	ND	5.0	0.66	ug/L	12/08/23 12:39	1
Bromomethane	ND	5.0	0.76	ug/L	12/08/23 12:39	1
Carbon tetrachloride	ND	1.0	0.40	ug/L	12/08/23 12:39	1
Chlorobenzene	ND	1.0	0.32	ug/L	12/08/23 12:39	1
Chloroethane	ND	2.0	0.40	ug/L	12/08/23 12:39	1
Chloroform	ND	1.0	0.24	ug/L	12/08/23 12:39	1
Chloromethane	ND	3.0	0.50	ug/L	12/08/23 12:39	1
cis-1,2-Dichloroethene	ND	1.0	0.23	ug/L	12/08/23 12:39	1
cis-1,3-Dichloropropene	ND	1.0	0.25	ug/L	12/08/23 12:39	1
Dibromochloromethane	ND	2.0	0.33	ug/L	12/08/23 12:39	1
Dibromomethane	ND	2.0	0.50	ug/L	12/08/23 12:39	1
Dichlorodifluoromethane	ND	2.0	0.64	ug/L	12/08/23 12:39	1
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Eurofins Spokane

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1.0

2.0

1.0

2.0

1.0

5.0

2.0

1.0

1.0

0.20 ug/L

0.21 ug/L

0.24 ug/L

0.28 ug/L

0.16 ug/L

2.2 ug/L

0.63 ug/L

0.20 ug/L

0.25 ug/L

Dil Fac

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-45001/7

Matrix: Water

Analysis Batch: 45001

Client Sample ID: Method Blank

Prep Type: Total/NA

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.16	ug/L			12/08/23 12:39	1
p-Isopropyltoluene	ND		1.0	0.27	ug/L			12/08/23 12:39	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			12/08/23 12:39	1
Styrene	ND		1.0	0.24	ug/L			12/08/23 12:39	1
tert-Butylbenzene	ND		1.0	0.12	ug/L			12/08/23 12:39	1
Tetrachloroethene	ND		1.0	0.22	ug/L			12/08/23 12:39	1
Toluene	ND		1.0	0.31	ug/L			12/08/23 12:39	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
trans-1,3-Dichloropropene	ND		1.0	0.45	ug/L			12/08/23 12:39	1
Trichloroethene	ND		1.0	0.20	ug/L			12/08/23 12:39	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			12/08/23 12:39	1
Vinyl chloride	ND		0.40	0.13	ug/L			12/08/23 12:39	1

MB MB

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	80 - 120		12/08/23 12:39	1
4-Bromofluorobenzene (Surr)	100	76 - 120		12/08/23 12:39	1
Dibromofluoromethane (Surr)	103	80 - 123		12/08/23 12:39	1
Toluene-d8 (Surr)	103	80 - 120		12/08/23 12:39	1

Lab Sample ID: LCS 590-45001/1004

Matrix: Water

Analysis Batch: 45001

Client Sample	ID:	Lab	Control	Sample	
		D		T-4-1/NIA	

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 131
1,1,1-Trichloroethane	10.0	11.5		ug/L		115	71 - 138
1,1,2,2-Tetrachloroethane	10.0	10.0		ug/L		100	60 - 150
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	80 - 128
1,1-Dichloroethane	10.0	10.7		ug/L		107	80 - 125
1,1-Dichloroethene	10.0	11.0		ug/L		110	65 - 141
1,1-Dichloropropene	10.0	10.4		ug/L		104	82 - 123
1,2,3-Trichlorobenzene	10.0	9.87		ug/L		99	70 - 137
1,2,3-Trichloropropane	10.0	9.85		ug/L		99	65 - 142
1,2,4-Trichlorobenzene	10.0	9.44		ug/L		94	76 - 131
1,2,4-Trimethylbenzene	10.0	9.10		ug/L		91	78 - 131
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	53 - 142
1,2-Dibromoethane (EDB)	10.0	10.9		ug/L		109	80 - 124
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,2-Dichloropropane	10.0	9.97		ug/L		100	79 - 122
1,3,5-Trimethylbenzene	10.0	8.83		ug/L		88	76 - 129
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 122
1,3-Dichloropropane	10.0	10.3		ug/L		103	78 - 129
1,4-Dichlorobenzene	10.0	9.95		ug/L		99	80 - 120
2,2-Dichloropropane	10.0	14.4	*+	ug/L		144	73 - 140
2-Chlorotoluene	10.0	10.6		ug/L		106	74 - 129
4-Chlorotoluene	10.0	9.86		ug/L		99	79 - 125
Benzene	10.0	10.3		ug/L		103	80 - 120

QC Sample Results

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-45001/1004

Matrix: Water

Analysis Batch: 45001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Austra	Spike		LCS	D 0/D	%Rec	
Analyte	Added	9.56	Qualifier Unit	D %Rec	Limits	- —
Bromobenzene			ug/L	96	73 ₋ 125 71 ₋ 136	
Bromochloromethane	10.0	10.3	ug/L	103	71 - 136 80 - 120	
Bromodichloromethane Bromoform	10.0	10.4	ug/L	104		
	10.0	11.4	ug/L	114	73 - 139	
Bromomethane	10.0	9.87	ug/L	99	66 - 149	
Carbon tetrachloride	10.0	11.4	ug/L	114	72 - 138	
Chlorobenzene	10.0	10.2	ug/L	102	80 - 124	
Chloroethane	10.0	10.3	ug/L	103	64 - 134	
Chloroform	10.0	10.9	ug/L	109	80 - 123	
Chloromethane	10.0	9.61	ug/L	96	19 - 150	
cis-1,2-Dichloroethene	10.0	10.4	ug/L	104	80 - 122	
cis-1,3-Dichloropropene	10.0	9.89	ug/L	99	80 - 121	
Dibromochloromethane	10.0	10.6	ug/L	106	80 - 130	
Dibromomethane	10.0	10.2	ug/L	102	80 - 122	
Dichlorodifluoromethane	10.0	10.0	ug/L	100	30 - 150	
Ethylbenzene	10.0	10.6	ug/L	106	80 - 122	
Hexachlorobutadiene	10.0	10.2	ug/L	102	77 - 132	
Isopropylbenzene	10.0	11.2	ug/L	112	80 - 122	
m,p-Xylene	10.0	10.8	ug/L	108	80 - 125	
Methyl tert-butyl ether	10.0	11.9	ug/L	119	68 - 134	
Methylene Chloride	10.0	10.2	ug/L	102	30 - 150	
Naphthalene	10.0	10.1	ug/L	101	61 - 140	
n-Butylbenzene	10.0	10.2	ug/L	102	75 - 121	
N-Propylbenzene	10.0	10.0	ug/L	100	73 - 136	
o-Xylene	10.0	10.9	ug/L	109	80 - 130	
p-Isopropyltoluene	10.0	10.2	ug/L	102	78 - 128	
sec-Butylbenzene	10.0	8.90	ug/L	89	73 - 138	
Styrene	10.0	10.0	ug/L	100	79 - 134	
tert-Butylbenzene	10.0	8.73	ug/L	87	76 - 131	
Tetrachloroethene	10.0	11.6	ug/L	116	80 - 139	
Toluene	10.0	9.84	ug/L	98	80 - 129	
trans-1,2-Dichloroethene	10.0	9.76	ug/L	98	73 - 137	
trans-1,3-Dichloropropene	10.0	10.9	ug/L	109	73 - 138	
Trichloroethene	10.0	10.4	ug/L	104	80 - 123	
Trichlorofluoromethane	10.0	9.87	ug/L	99	71 - 147	
Vinyl chloride	10.0	9.39	ug/L	94	50 - 150	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane (Surr)	103		80 - 123
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-45001/5

Matrix: Water

Analysis Batch: 45001

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Accelor	Spike		LCSD	1114	_	0/ 🗖	%Rec	DDD	RPD	
Analyte	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limit	
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 131	3	17	
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	71 - 138	1	17	
1,1,2,2-Tetrachloroethane	10.0	9.87		ug/L		99	60 - 150		17	
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 128	2	15	
1,1-Dichloroethane	10.0	9.87		ug/L		99	80 - 125	8	20	
1,1-Dichloroethene	10.0	10.1		ug/L		101	65 - 141	8	19	
1,1-Dichloropropene	10.0	9.72		ug/L		97	82 - 123	7	20	
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	70 - 137	3	30	
1,2,3-Trichloropropane	10.0	9.99		ug/L		100	65 - 142	1	34	
1,2,4-Trichlorobenzene	10.0	9.68		ug/L		97	76 - 131	2	24	
1,2,4-Trimethylbenzene	10.0	8.54		ug/L		85	78 - 131	6	16	
1,2-Dibromo-3-Chloropropane	10.0	9.93	J	ug/L		99	53 - 142	9	29	
1,2-Dibromoethane (EDB)	10.0	11.1		ug/L		111	80 - 124	2	14	
1,2-Dichlorobenzene	10.0	9.74		ug/L		97	80 - 120	6	14	
1,2-Dichloroethane	10.0	10.1		ug/L		101	80 - 120		14	
1,2-Dichloropropane	10.0	9.74		ug/L		97	79 - 122	2	15	
1,3,5-Trimethylbenzene	10.0	8.42		ug/L		84	76 - 129	5	17	
1,3-Dichlorobenzene	10.0	9.61		ug/L		96	80 - 122	5	15	
1,3-Dichloropropane	10.0	10.3		ug/L		103	78 - 129	0	17	
1,4-Dichlorobenzene	10.0	9.58		ug/L		96	80 - 120	4	14	
2,2-Dichloropropane	10.0	12.9		ug/L		129	73 - 140	11	18	
2-Chlorotoluene	10.0	9.34		ug/L		93	74 - 129	12	19	
4-Chlorotoluene	10.0	9.45		ug/L		94	79 - 125	4	16	
Benzene	10.0	9.96		ug/L		100	80 - 120	4	15	
Bromobenzene	10.0	9.10		ug/L		91	73 - 125	5	16	
Bromochloromethane	10.0	10.0		ug/L		100	71 - 136	3	21	
Bromodichloromethane	10.0	9.87		ug/L		99	80 - 120	5	16	
Bromoform	10.0	11.4		ug/L		114	73 - 139	0	17	
Bromomethane	10.0	9.46		ug/L		95	66 - 149	4	24	
Carbon tetrachloride	10.0	11.0		ug/L		110	72 - 138	3	28	
Chlorobenzene	10.0	9.75		ug/L		97	80 - 124	4	14	
Chloroethane	10.0	9.51		ug/L		95	64 - 134	8	24	
Chloroform	10.0	10.2		ug/L		102	80 - 123	7	18	
Chloromethane	10.0	9.10		ug/L		91	19 - 150	5	35	
cis-1,2-Dichloroethene	10.0	9.91		ug/L		99	80 - 122	5	17	
cis-1,3-Dichloropropene	10.0	9.99		ug/L		100	80 - 121	1	16	
Dibromochloromethane	10.0	10.4		ug/L		104	80 - 130	2	15	
Dibromomethane	10.0	9.23		ug/L		92	80 - 122	10	16	
Dichlorodifluoromethane	10.0	9.92		ug/L		99	30 - 150	1	22	
Ethylbenzene	10.0	10.2		ug/L		102	80 - 122	4	35	
Hexachlorobutadiene	10.0	10.5		ug/L		105	77 - 132	3	25	
Isopropylbenzene	10.0	10.7		ug/L		107	80 - 122	4	16	
m,p-Xylene	10.0	10.4		ug/L		104	80 - 125	4	35	
Methyl tert-butyl ether	10.0	11.9		ug/L		119	68 - 134	1	18	
Methylene Chloride	10.0	9.20		ug/L		92	30 - 150	10	25	
Naphthalene	10.0	10.5		ug/L		105	61 - 140	4	25	
n-Butylbenzene	10.0	9.79		ug/L		98	75 - 121	5	16	
N-Propylbenzene	10.0	9.54		ug/L		95	73 - 136	5	18	

Eurofins Spokane

12/16/2023 (Rev. 1)

Job ID: 590-22374-1 Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-45001/5

Matrix: Water

Analysis Batch: 45001

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
o-Xylene	10.0	10.5		ug/L		105	80 - 130	4	35
p-Isopropyltoluene	10.0	9.85		ug/L		98	78 - 128	4	17
sec-Butylbenzene	10.0	8.49		ug/L		85	73 - 138	5	17
Styrene	10.0	9.99		ug/L		100	79 - 134	0	17
tert-Butylbenzene	10.0	8.29		ug/L		83	76 - 131	5	18
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 139	8	20
Toluene	10.0	9.33		ug/L		93	80 - 129	5	35
trans-1,2-Dichloroethene	10.0	9.91		ug/L		99	73 - 137	2	18
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	73 - 138	1	17
Trichloroethene	10.0	9.40		ug/L		94	80 - 123	11	14
Trichlorofluoromethane	10.0	8.94		ug/L		89	71 - 147	10	24
Vinyl chloride	10.0	9.52		ug/L		95	50 - 150	1	26

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane (Surr)	101		80 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 590-22374-1 DU Client Sample ID: MW-3: 113023 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 45001

Allalysis Datcil. 45001								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		ND		ug/L		NC	17
1,1,1-Trichloroethane	ND		ND		ug/L		NC	17
1,1,2,2-Tetrachloroethane	ND		ND		ug/L		NC	17
1,1,2-Trichloroethane	ND		ND		ug/L		NC	15
1,1-Dichloroethane	ND		ND		ug/L		NC	20
1,1-Dichloroethene	ND		ND		ug/L		NC	19
1,1-Dichloropropene	ND		ND		ug/L		NC	20
1,2,3-Trichlorobenzene	ND		ND		ug/L		NC	30
1,2,3-Trichloropropane	ND		ND		ug/L		NC	34
1,2,4-Trichlorobenzene	ND		ND		ug/L		NC	24
1,2,4-Trimethylbenzene	5.0		5.33		ug/L		6	16
1,2-Dibromo-3-Chloropropane	2.6	J	2.41	J	ug/L		6	29
1,2-Dibromoethane (EDB)	ND		ND		ug/L		NC	14
1,2-Dichlorobenzene	ND		ND		ug/L		NC	14
1,2-Dichloroethane	ND		ND		ug/L		NC	14
1,2-Dichloropropane	ND		ND		ug/L		NC	15
1,3,5-Trimethylbenzene	41		41.2		ug/L		1	17
1,3-Dichlorobenzene	ND		ND		ug/L		NC	15
1,3-Dichloropropane	ND		ND		ug/L		NC	17
1,4-Dichlorobenzene	ND		ND		ug/L		NC	14
2,2-Dichloropropane	ND	*+	ND	*+	ug/L		NC	18
2-Chlorotoluene	ND		ND		ug/L		NC	19
4-Chlorotoluene	ND		ND		ug/L		NC	16
Benzene	ND		ND		ug/L		NC	15

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-22374-1 DU

Matrix: Water

Analysis Batch: 45001

Client Sample ID: MW-3: 113023

Prep Type: Total/NA

Amalista	-	Sample		DU	l lmi4	D	DDD	RPE
Analyte Bromobenzene	Result ND	Qualifier	Result ND	Qualifier	Unit	<u>D</u>		Limi
Bromochloromethane	ND		ND		ug/L		NC NC	2
Bromodichloromethane	ND ND		ND ND		ug/L ug/L		NC NC	16
Bromoform	ND ND		ND		ug/L ug/L		NC NC	17
Bromomethane	ND ND		ND ND		-			
	ND ND		ND ND		ug/L		NC NC	24
Carbon tetrachloride					ug/L			28
Chlorobenzene Chloroethane	ND		ND		ug/L		NC	14
	1.5	J	ND		ug/L		NC	24
Chloroform	ND		ND		ug/L		NC	18
Chloromethane	0.57	J	0.705	J	ug/L		21	3
cis-1,2-Dichloroethene	ND		ND		ug/L		NC	17
cis-1,3-Dichloropropene	ND		ND		ug/L		NC	16
Dibromochloromethane	ND		ND		ug/L		NC	15
Dibromomethane	ND		ND		ug/L		NC	16
Dichlorodifluoromethane	ND		ND		ug/L		NC	22
Ethylbenzene	1.9		1.97		ug/L		1	3
Hexachlorobutadiene	ND		ND		ug/L		NC	2
Isopropylbenzene	3.1		3.17		ug/L		4	16
m,p-Xylene	5.1		5.54		ug/L		9	3
Methyl tert-butyl ether	ND		ND		ug/L		NC	18
Methylene Chloride	ND		ND		ug/L		NC	2
Naphthalene	3.6		3.81		ug/L		7	2
n-Butylbenzene	5.7		5.82		ug/L		2	16
N-Propylbenzene	5.6		5.52		ug/L		2	18
o-Xylene	ND		ND		ug/L		NC	3
p-Isopropyltoluene	1.9		1.91		ug/L		0.7	17
sec-Butylbenzene	2.7		2.80		ug/L		2	17
Styrene	ND		ND		ug/L		NC	17
tert-Butylbenzene	ND		ND		ug/L		NC	18
Tetrachloroethene	ND		ND		ug/L		NC	20
Toluene	ND		ND		ug/L		NC	3
trans-1,2-Dichloroethene	ND		ND		ug/L		NC	18
trans-1,3-Dichloropropene	ND		ND		ug/L		NC	17
Trichloroethene	ND		ND		ug/L		NC	14
Trichlorofluoromethane	ND		ND		ug/L		NC	24
Vinyl chloride	ND		ND		ug/L		NC	26

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	101		80 - 123
Toluene-d8 (Surr)	95		80 - 120

Job ID: 590-22374-1

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-45002/7 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 45002

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 12/08/23 12:39 Gasoline ND 150 54 ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 68.7 - 141 12/08/23 12:39

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 590-45002/1006 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 45002

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline 1000 884 ug/L 88 80 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 68.7 - 141 104

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 590-45002/1017 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 45002

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline 1000 913 ug/L 91 80 - 120

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 99 68.7 - 141

Lab Sample ID: 590-22374-1 DU Client Sample ID: MW-3: 113023 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 45002

Sample Sample DU DU **RPD** Result Qualifier Analyte Result Qualifier Unit D RPD Limit Gasoline 540 609 ug/L

DU DU

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 68.7 - 141 97

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-635886/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 635886

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Methane ND 5.0 0.63 ug/L 12/02/23 17:19

Job ID: 590-22374-1

Prep Type: Total/NA

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 280-635886/3 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 635886

Client: GeoEngineers Inc

Spike LCS LCS %Rec Result Qualifier Added %Rec Limits Analyte Unit D 65.7 Methane 62.7 ug/L 95 75 - 125

Lab Sample ID: LCSD 280-635886/4 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 635886

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 65.7 65.2 Methane ug/L 99 75 - 125

Lab Sample ID: MB 280-636538/5 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 636538

MB MB RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Methane $\overline{\mathsf{ND}}$ 5.0 0.63 ug/L 12/07/23 19:05

Lab Sample ID: LCS 280-636538/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 636538

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Methane 65.7 65.6 ug/L 100 75 - 125

Lab Sample ID: LCSD 280-636538/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 636538

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Methane 65.7 63.7 97 ug/L 75 - 125 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-44902/1003 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 44902

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.80	0.42	mg/L			12/01/23 11:18	1
Sulfate	ND		0.50	0.13	ma/L			12/01/23 11:18	1

Lab Sample ID: LCS 590-44902/1004 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Ratch: 44902

Alialysis Datcil. 77302								
_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	12.5	12.5		mg/L		100	90 - 110	
Sulfate	12.5	12.3		mg/L		98	90 - 110	

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 590-44903/1003

Matrix: Water

Analysis Batch: 44903

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.057	mg/L			12/01/23 11:18	1
Nitrite as N	ND		0.20	0.069	mg/L			12/01/23 11:18	1

Lab Sample ID: LCS 590-44903/1004

Matrix: Water

Analyte

Nitrate as N

Nitrite as N

Analysis Batch: 44903

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 5.00 4.98 mg/L 100 90 - 110 5.00 4.95 mg/L 99 90 - 110

mg/L

mg/L

Lab Sample ID: MB 590-44937/1003

Matrix: Water

Analysis Batch: 44937

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

97

99

Prep Type: Total/NA

MB MB

MB MB

ND

Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	0.80	0.42	mg/L			12/05/23 13:48	1
Sulfate	ND	0.50	0.13	mg/L			12/05/23 13:48	1

Lab Sample ID: LCS 590-44937/1004

Chloride

Matrix: Water						Prep Type: Total/NA
Analysis Batch: 44937						
	Spike	LCS LC	S			%Rec
Analyte	Added	Result Qua	alifier U	Jnit	D %Rec	Limits

12.1

12.3

12.5

12.5

Sulfate Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-445619/18-A

Matrix: Water

Analysis Batch: 445775

Client Sample ID: Method Blank Prep Type: Total Recoverable

90 - 110

90 - 110

Prep Batch: 445619

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	0.0050	0.0010	mg/L		12/06/23 16:38	12/08/23 08:01	5
Cadmium	ND	0.0020	0.00019	mg/L		12/06/23 16:38	12/08/23 08:01	5
Iron	ND	0.50	0.067	mg/L		12/06/23 16:38	12/08/23 08:01	5
Lead	ND	0.0020	0.00020	mg/L		12/06/23 16:38	12/08/23 08:01	5
Manganese	ND	0.010	0.0023	mg/L		12/06/23 16:38	12/08/23 08:01	5

0.035

0.0046 mg/L

Lab Sample ID: LCS 580-445619/19-A

Matrix: Water

Zinc

Analysis Batch: 445775

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 445619

12/06/23 16:38 12/08/23 08:01

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1.00	0.953		mg/L		95	80 - 120	
Cadmium	1.00	0.977		mg/L		98	80 - 120	
Iron	20.0	20.0		mg/L		100	80 - 120	
Lead	1.00	0.960		mg/L		96	80 - 120	

Project/Site: Ione Airport Kwik Stop/0504-058-07

Job ID: 590-22374-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-445619/19-A

Lab Sample ID: LCSD 580-445619/20-A

Matrix: Water

Matrix: Water

Analysis Batch: 445775

Analysis Batch: 445775

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 445619

LCS LCS Spike %Rec Added Result Qualifier Unit D %Rec Limits Manganese 1.00 0.991 99 80 - 120 mg/L Zinc 1.00 0.968 mg/L 97 80 - 120

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable Prep Batch: 445619

Spi	ke LCSD	LCSD			%Rec		RPD
Analyte Add	ed Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Arsenic 1.	00 0.957	mg/L		96	80 - 120	0	20
Cadmium 1.	00 0.962	mg/L		96	80 - 120	2	20
Iron 20	0.0 19.9	mg/L		100	80 - 120	1	20
Lead 1.	00 0.950	mg/L		95	80 - 120	1	20
Manganese 1.	00 0.980	mg/L		98	80 - 120	1	20
Zinc 1.	00 0.979	mg/L		98	80 - 120	1	20

Lab Sample ID: MB 580-445715/15-B

Matrix: Water

Analysis Batch: 445927

Client Sample ID: Method Blank Prep Type: Dissolved

Prep Batch: 445810

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		12/08/23 15:08	12/11/23 14:57	1
Cadmium	ND		0.00040	0.000037	mg/L		12/08/23 15:08	12/11/23 14:57	1
Iron	ND		0.10	0.013	mg/L		12/08/23 15:08	12/11/23 14:57	1
Lead	ND		0.00040	0.000040	mg/L		12/08/23 15:08	12/11/23 14:57	1
Manganese	ND		0.0020	0.00046	mg/L		12/08/23 15:08	12/11/23 14:57	1
Zinc	ND		0.0070	0.00093	mg/L		12/08/23 15:08	12/11/23 14:57	1

Lab Sample ID: LCS 580-445715/16-B

Matrix: Water

Analysis Batch: 445927

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 445810

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1.00	1.02		mg/L		102	80 - 120	
Cadmium	1.00	1.00		mg/L		100	80 - 120	
Iron	20.0	21.2		mg/L		106	80 - 120	
Lead	1.00	0.988		mg/L		99	80 - 120	
Manganese	1.00	1.05		mg/L		105	80 - 120	
Zinc	1.00	1.04		mg/L		104	80 - 120	

Lab Sample ID: LCSD 580-445715/17-B

Matrix: Water

Analysis Batch: 445927

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved Prep Batch: 445810

Analysis batch: 445921							Prep Ba	ILCH: 44	+50 TU
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	1.03		mg/L		103	80 - 120	1	20
Cadmium	1.00	1.03		mg/L		103	80 - 120	2	20
Iron	20.0	21.3		mg/L		106	80 - 120	1	20
Lead	1.00	1.00		mg/L		100	80 - 120	2	20
Manganese	1.00	1.04		mg/L		104	80 - 120	0	20
Zinc	1.00	1.03		mg/L		103	80 - 120	0	20

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 590-22374-3 MS

Analysis Batch: 446003

Matrix: Water

Client Sample ID: MW-9: 113023

Prep Type: Dissolved Prep Batch: 445810

Job ID: 590-22374-1

Alluly 313 Dutolli. 440000									i icp Batcii.	TT0010
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		1.00	1.01		mg/L		101	80 - 120	
Cadmium	ND		1.00	0.989		mg/L		99	80 - 120	
Iron	ND		20.0	20.8		mg/L		104	80 - 120	
Lead	ND		1.00	0.972		mg/L		97	80 - 120	
Manganese	ND		1.00	1.02		mg/L		102	80 - 120	
Zinc	ND		1.00	1.02		mg/L		102	80 - 120	

Lab Sample ID: 590-22374-3 MSD Client Sample ID: MW-9: 113023

Matrix: Water

Analysis Batch: 446003

Prep Type: Dissolved

Prep Batch: 445810

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		1.00	1.01		mg/L		101	80 - 120	0	20
Cadmium	ND		1.00	0.999		mg/L		100	80 - 120	1	20
Iron	ND		20.0	20.5		mg/L		103	80 - 120	1	20
Lead	ND		1.00	0.990		mg/L		99	80 - 120	2	20
Manganese	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Zinc	ND		1.00	1.01		mg/L		101	80 - 120	1	20

Lab Sample ID: 590-22374-8 MS Client Sample ID: DUP 1: 113023

Matrix: Water

Analysis Batch: 445927

Prep Type: Dissolved

Prep Batch: 445810

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.0013	J	1.00	1.03		mg/L		102	80 - 120	
Cadmium	ND		1.00	1.03		mg/L		103	80 - 120	
Iron	0.085	J	20.0	20.9		mg/L		104	80 - 120	
Lead	ND		1.00	0.993		mg/L		99	80 - 120	
Manganese	0.71		1.00	1.72		mg/L		102	80 - 120	
Zinc	ND		1.00	1.03		mg/L		103	80 - 120	

Lab Sample ID: 590-22374-8 MSD Client Sample ID: DUP 1: 113023

Matrix: Water

Analysis Batch: 445927

Prep Type: Dissolved Prep Batch: 445810

Alialysis Dalcii. 443321									Lieh De	11011. 44	13010
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0013	J	1.00	1.05		mg/L		105	80 - 120	2	20
Cadmium	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Iron	0.085	J	20.0	20.7		mg/L		103	80 - 120	1	20
Lead	ND		1.00	1.00		mg/L		100	80 - 120	1	20
Manganese	0.71		1.00	1.73		mg/L		102	80 - 120	0	20
Zinc	ND		1.00	1.04		mg/L		104	80 - 120	2	20

Lab Sample ID: 590-22374-8 DU Client Sample ID: DUP 1: 113023 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 445927

Prep Batch: 445810 Sample Sample DU DU **RPD** Analyte **Result Qualifier** Result Qualifier Unit RPD Limit 0.0013 J 0.00152 J 15 Arsenic mg/L

Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 590-22374-8 DU Client Sample ID: DUP 1: 113023

Matrix: Water Prep Type: Dissolved Analysis Batch: 445927 **Prep Batch: 445810**

						op Datom .	
Sample	Sample	DU	DU				RPD
Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
ND		MD		mg/L		NC	20
0.085	J	0.0803	J	mg/L		6	20
ND		ND		mg/L		NC	20
0.71		0.693		mg/L		2	20
ND		ND		mg/L		NC	20
	Result ND 0.085 ND 0.71	0.085 J ND 0.71	Result Qualifier Result ND ND 0.085 J 0.0803 ND ND 0.71 0.693	Result ND Qualifier Result ND Qualifier ND 0.085 J 0.0803 J ND ND ND 0.71 0.693 O.693	Result ND Qualifier Result ND Qualifier Mg/L mg/L mg/L mg/L 0.085 J 0.0803 J mg/L ng/L ND ND mg/L ng/L 0.71 0.693 mg/L	Result ND Qualifier ND Result ND Qualifier Mg/L mg/L mg/L mg/L mg/L ND ND mg/L mg/L mg/L ND ND mg/L mg/L mg/L 0.71 0.693 mg/L	Sample Result DU DU DU Result Qualifier Unit D RPD ND ND mg/L NC 0.085 J 0.0803 J mg/L 6 ND ND mg/L NC 0.71 0.693 mg/L 2

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 590-45031/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 45031

Client: GeoEngineers Inc

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.00	J	20	5.0	mg/L			12/11/23 11:29	1
Bicarbonate Alkalinity as CaCO3	5.00	J	20	5.0	mg/L			12/11/23 11:29	1

Lab Sample ID: LCS 590-45031/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 45031

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Alkalinity	 501	500		mg/L		100	90 - 110	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 590-44911/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 44911

MB MB Analyte Result Qualifier RLMDL Unit Dil Fac Prepared Analyzed **Total Dissolved Solids** ND 25 13 mg/L 12/04/23 09:53

Lab Sample ID: LCS 590-44911/2 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 44911

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits **Total Dissolved Solids** 503 493 mg/L 98 80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-636746/21 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 636746

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0	0.35	mg/L			12/09/23 03:08	1

Eurofins Spokane

Prep Type: Total/NA

QC Sample Results

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 280-636746/4 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 636746

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** Total Organic Carbon - Duplicates 1.0 0.35 mg/L 12/08/23 20:40 ND

Lab Sample ID: LCS 280-636746/20 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 636746

Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits Total Organic Carbon -25.0 24.2 mg/L 97 88 - 112

Duplicates

Lab Sample ID: LCS 280-636746/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 636746

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Total Organic Carbon -25.0 24.3 mg/L 97 88 - 112

Duplicates

Date Collected: 11/30/23 10:45 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 15:13	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 15:13	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:04	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 13:55	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 13:55	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:29	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:24	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/09/23 06:59	ABW	EET DEN

Client Sample ID: MW-8: 113023

Date Collected: 11/30/23 12:15

Lab Sample ID: 590-22374-2

Matrix: Water

Date Received: 11/30/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 15:56	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 15:56	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:17	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:05	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:05	NMI	EET SP
Total/NA	Analysis	300.0		10	5 mL	5 mL	44937	12/05/23 15:07	NMI	EET SP
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:32	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:27	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SP
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPI
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:03	ABW	EET DE

Client Sample ID: MW-9: 113023

Date Collected: 11/30/23 09:10

Lab Sample ID: 590-22374-3

Matrix: Water

Date Received: 11/30/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 16:39	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 16:39	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	635886	12/02/23 22:31	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:15	NMI	EET SPK

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: MW-9: 113023

Date Collected: 11/30/23 09:10 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-3

Matrix: Water

Job ID: 590-22374-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:15	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	446003	12/11/23 16:21	TMH	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:22	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:30	ABW	EET DEN

Client Sample ID: MW-10: 112923

Date Collected: 11/29/23 13:50 Date Received: 11/30/23 15:14 Lab Sample ID: 590-22374-4

Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	· <u></u>	1	43 mL	43 mL	45001	12/08/23 17:01	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:01	JSP	EET SPK

Client Sample ID: MW-11: 112923

Date Collected: 11/29/23 12:50 Date Received: 11/30/23 15:14

Lab Sample ID: 590-22374-5

Lab Sample ID: 590-22374-6

Lab Sample ID: 590-22374-7

Matrix: Water

Matrix: Water

Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 17:22	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:22	JSP	EET SPK

Client Sample ID: MW-15: 112923

Date Collected: 11/29/23 11:20

Date Received: 11/30/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type Total/NA	Type Analysis	Method 8260D	Run	Factor 1	Amount 43 mL	Amount 43 mL	Number 45001	or Analyzed 12/08/23 17:44	Analyst JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 17:44	JSP	EET SPK

Client Sample ID: MW-18: 112923

Date Collected: 11/29/23 14:50

Date Received: 11/30/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001		JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 18:05	JSP	EET SPK

Lab Chronicle

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Client Sample ID: DUP 1: 113023 Lab Sample ID: 590-22374-8

Date Collected: 11/30/23 09:00 Matrix: Water

Date Received: 11/30/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	45001	12/08/23 18:27	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	45002	12/08/23 18:27	JSP	EET SPK
Total/NA	Analysis	RSK-175		1	20 mL	20 mL	636538	12/07/23 23:36	SJD	EET DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	44902	12/01/23 14:25	NMI	EET SPK
Total/NA	Analysis	300.0		1	5 mL	5 mL	44903	12/01/23 14:25	NMI	EET SPK
Total/NA	Analysis	300.0		10	5 mL	5 mL	44937	12/05/23 15:17	NMI	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	445715	12/07/23 15:14	AUA	EET SEA
Dissolved	Prep	3005A			50 mL	50 mL	445810	12/08/23 15:08	TMH	EET SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	445927	12/11/23 15:08	FCW	EET SEA
Total Recoverable	Prep	3005A			50 mL	50 mL	445619	12/06/23 16:38	TMH	EET SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	445775	12/08/23 09:19	FCW	EET SEA
Total/NA	Analysis	SM 2320B		1	100 mL	100 mL	45031	12/11/23 11:29	AMB	EET SPK
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	44911	12/04/23 09:53	AMB	EET SPK
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	636746	12/08/23 23:47	ABW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

22374-1

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Accreditation/Certification Summary

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-24
,	s are included in this report, but the laborate	ry is not certified by the governing author	ority. This list may include analyte
,	s are included in this report, but the laborate does not offer certification.	ry is not certified by the governing autho	ority. This list may include analyte
,		ry is not certified by the governing autho Analyte	ority. This list may include analyte

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date				
A2LA	Dept. of Defense ELAP	2907.01	10-31-24				
A2LA	ISO/IEC 17025	2907.01	10-31-25				
Alabama	State Program	40730	09-30-12 *				
Alaska (UST)	State	18-001	02-10-24				
Arizona	State	AZ0713	12-20-23				
Arkansas DEQ	State	19-047-0	05-31-23 *				
California	State	2513	01-09-24				
Connecticut	State	PH-0686	09-30-24				
Florida	NELAP	E87667-57	06-30-24				
Georgia	State	4025-011	01-08-24				
Illinois	NELAP	2000172019-1	04-30-24				
Iowa	State	370	12-01-24				
Kansas	NELAP	E-10166	04-30-24				
Kentucky (WW)	State	KY98047	12-31-23				
Louisiana	NELAP	30785	06-30-14 *				
Louisiana	NELAP	30785	06-30-23 *				
Louisiana (All)	NELAP	30785	06-30-24				
Minnesota	NELAP	1788752	12-31-23				
Nevada	State	CO000262020-1	07-31-24				
New Hampshire	NELAP	2053	04-28-24				
New Jersey	NELAP	230001	06-30-24				
New York	NELAP	59923	03-31-24				
North Carolina (WW/SW)	State	358	12-31-23				
North Dakota	State	R-034	01-08-24				
Oklahoma	NELAP	8614	08-31-24				
Oregon	NELAP	4025-019	01-08-24				
Pennsylvania	NELAP	013	07-31-24				
South Carolina	State	72002001	01-08-24				
Texas	NELAP	TX104704183-08-TX	09-30-09 *				
Texas	NELAP	T104704183-21-19	09-30-24				
USDA	US Federal Programs	P330-20-00065	12-19-25				
Utah	NELAP	QUAN5	06-30-13 *				
Utah	NELAP	CO000262019-11	07-31-24				
Virginia	NELAP	460232	06-14-24				
Washington	State	C583	08-03-24				
West Virginia DEP	State	354	11-30-24				
Wisconsin	State	999615430	08-31-24				
Wyoming (UST)	A2LA	2907.01	10-31-25				

Laboratory: Eurofins Seattle

12/16/2023 (Rev. 1)

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GeoEngineers Inc Job ID: 590-22374-1

Project/Site: Ione Airport Kwik Stop/0504-058-07

Laboratory: Eurofins Seattle (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-24
Florida	NELAP	E87575	06-30-24
Louisiana (All)	NELAP	03073	07-01-24
Maine	State	WA01273	05-02-24
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-24
New York	NELAP	11662	03-31-24
Oregon	NELAP	4167	07-07-24
US Fish & Wildlife	US Federal Programs	A20571	06-30-24
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788	07-13-24
Wisconsin	State	399133460	08-31-24

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Method Summary

Client: GeoEngineers Inc

Project/Site: Ione Airport Kwik Stop/0504-058-07

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
RSK-175	Dissolved Gases (GC)	RSK	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET SPK
6020B	Metals (ICP/MS)	SW846	EET SEA
SM 2320B	Alkalinity	SM	EET SPK
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET SPK
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
5030C	Purge and Trap	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SEA

Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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Job ID: 590-22374-1

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Eurofins Spokane

11922 East 1st Ave

Spokane, WA 99206

Chain of Custody Record

🔆 eurofins

Environment Testing

Phone (509) 924-9200 Phone (509) 924-9290					PM·															
Client Information	Sampler:	0/9 ().	Lab i Arri		gton Randee E							Tracking No(s):					COC No: 590-9177-2634 1		
Client Contact: Justin Orr	Phone:			E-Ma Ran	ail: ndee.Ar	rinala	 .n@e	t.eurof	inst	is.com		Sta	te of O	rigin:	,				Page: Page 1 of 1	
Company:	L		PWSID:		T										4	1			Job#:	
GeoEngineers Inc							,		An	alysi	s Re	eque	sted	<u> </u>	8-	¥				
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City:	TAT Requested		,		1	Š							2	1	うり	3		- 1	A HGL B NaOH	N None O AsNaO2
Spokane State, Zip:	1 5	TT				NO2 &			-			ş ğ	,		12		1	-	C Zn Acetate D Nitric Acid	P Na2O4S Q Na2SO3
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Phone:	PO#: Purchase Or	rder not require	ed			I, NO3,	_		£	Ca & Mg, 7470 Dissolved Hg	١	Š	凡即又		Joan		-		G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrale
Email'	WO #:				or No	300-CI,	3.8.2	Pb & Zn	Total Hg		2	Acio		:#	200			١	I toe	U Acelone V MCAA
jorr@geoengineers.com Project Name:	Project#:				- 18	1DS, 3	P.	9	7470A	4	r(I	Yeak	Į.	standard	1		- [S S	K EDTA	W pH4-5 Y Trizma
Marshall Landfill	59002669			ع ا	ပ္မ	e N	Fe, M	Na,	\$ C	2	g	<u> </u>	star	cide	- 1	×1	真		Z other (specify)	
Site:	SSOW#:				dwe	, 2540C	ğ	8	2 S	3 2	-	Cvanide. Weak Acid Dissociable	Standard Analyte List	rtiles,	Tero		ا خ	of cont	Other ⁻	
			Ι	Matrix	1808	2320B Alk/Bicarb,	Total As,			Dissolved	٤	. !	1 2	Semivolatiles		EPA 1633	 	š		
			Sample Type	(W=water	Tiper 1	AIME) g	4500 CN I NP			<u> </u>	EP.	5]]		
		Sample	(C=Comp,	Sessiid, Ocwasie/oii,	Pe	20B	6020B	6020B	5	60100	durcano	2 g	82600	8270E		£	취	Total		
Sample Identification	Sample Da	ite Time	of Proceedings and the process of the party	BT=T8800, A-AI/ Blion Code:	作	AND DESCRIPTION OF	D D	N C		TAXABLE PARKS	Maria College	7-0	86 0 × 202	2000,000	SW 2500	¥ .	=	Š	Special Ins	tructions/Note:
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MW-8:11,3023		1215		Waler	11	X	1	+					1		X		Y			
mw-9: 113023	<u> </u>	0910		Water		X	+	4			<u> </u>	*	<u> </u>	<u> </u>	X		と			
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Custody Seals Intact: Custody Seal No. Δ Yes Δ No					Cooler Temperature(s) °C and Other					J	. 1411101	- 4	1.7	7,4	.8L	on	~	12005		

Ver: 06/08/2021

Eurofins Spokane

11922 East 1st Ave Spokane, WA 99206

Chain of Custody Record



eurofins

Environment Testing

ione: 509-924-9200 Fax: 509-924-9290													102	2							
Client Information (Sub Contract Lab) Client Contact:	Sampler:				b PM: rringto	on, R	ande	ee E					Carrier	Trackir	ng No(s):		-	COC No: 590-8452.1			
Client Contact: Shipping/Receiving	Phone:				Mail: andee	e.Arri	ngto	n@e	t.euro	finsus	.com			of Origin				Page: Page 1 of 1			
Company: TestAmerica Laboratories, Inc.									ired (Se Wash				•					Job #: 590-22374-1			
Address: 4955 Yarrow Street,	Due Date Request	ed:			1	ato i	rogi		*****			Rec	uest	ed				Preservation Cod	es: M - Hexane		
City:	TAT Requested (d	ays):			-				T	Т	1	T		T	\Box		Tropio	A - HCL B - NaOH	N - None O - AsNaO2		
Arvada State, Zip: CO, 80002	1																	C - Zn Acetate D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3		
Phone:	PO #:	PO #:																F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate		
303-736-0100(Tel) 303-431-7171(Fax) Email:	WO #:	WO #:				<u>(</u>											_	H - Ascorbic Acid I - Ice J - DI Water	U - Acetone V - MCAA		
Project Name: Marshall Landfill	Project #:				Sample (Yes	or N		اوا									iners	K - EDTA L - EDA	W - pH 4-5 Y - Trizma Z - other (specify)		
Site:	SSOW#:	59002669 SSOW#:				O (Yes	5	Methar									conf	Other:	2 - Ottler (specify)		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=	Field Filtered	Perform MS/MSD (Yes or No)	SM5310B/ (MOD) TOC	RSK_175/ (MOD) Methane									Total Number of	Special In	structions/Note:		
		10:45	Preserva	tion Code	: X	X			_	_		ऻ					X				
MW-3: 113023 (590-22374-1)	11/30/23	Pacific		Water	\perp		Х	Х		_		_	Ш	_			4				
MW-8: 113023 (590-22374-2)	11/30/23	12:15 Pacific		Water			х	X									4				
MW-9: 113023 (590-22374-3)	11/30/23	09:10 Pacific		Water			Х	х									4				
DUP 1: 113023 (590-22374-8)	11/30/23	09:00 Pacific		Water			х	х									4				
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Note: Since laboratory accreditations are subject to change, Eurofins Environmer does not currently maintain accreditation in the State of Origin listed above for ar status should be brought to Eurofins Environment Testing Northwest, LLC attenti	alysis/tests/matrix bei	ing analyzed, t	he samples mu	st be shippe	d back	to the	Euro	fins Er	vironm	ent Te	sting No	orthwes	st, LLC I	aborato	ry or othe	er instruc	tions w	ill be provided. Any ch	nanges to accreditation		
Possible Hazard Identification		-				Sar	nple	Disp	osal	(A fe	e may		ssess	ed if	sample	s are i	etain	ed longer than 1	month)		
Unconfirmed	D.: D.E					L			To C				Dispos	al By I	Lab		Arch	hive For	Months		
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver		2			Spe	cial	Instru	ictions	s/QC	Requi	remei	nts:								
Empty Kit Relinquished by:		Date:			Tii	me:				1				Method (of Shipm						
Relinguished by:	Date/Time: 12/1/23	15	5:00		390	0		ived by	4	01	15	<u> 5</u> 8			Date/		v/v	3 9:15	17.00.		
Relinquished by:	Date/Time: Company				Received by:						•			Date/	Time:		Company				
Relinquished by:	Date/Time: Company			Company	Received by:							Date/Time:						Company			
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cooler Temperature(s) °C and Other Remarks: 20 CL APPA CF 0.2								1,2							







ICOC No: 590-8452

Containers

Count

4 12

Container Type
Amber Glass 250ml - Sulfuric Acid
Voa Vial 40ml - Hydrochloric Acid

Preservative Sulfuric Acid

Hydrochloric Acid

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Eurofins Spokane

11922 East 1st Ave Spokane, WA 99206 Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



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Environment Testing

Filone, 509-924-9200 Tax. 509-924-9290																						
Client Information (Sub Contract Lab)							b PM: Ca rington, Randee E												COC No: 590-8456.1			
Client Contact: Shipping/Receiving	Phone:			E-Ma Ran		Arrino	aton@	Det.ei	ırofins	sus.cc	m		e of Ori	-				Page: Page 1 of 1				
Company:					Accr	editatio	ons Re	equired	(See n	ote):								Jo	ob #:			
Eurofins Environment Testing Northwest, Address:	Due Date Requeste	ed:			Star	e Pro	ogran	n - vv	ashing	gton			NAME OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,					_	90-22374-1	les.		
5755 8th Street East, ,	12/13/2023						***************************************		Α	naly	sis Re	que	sted	*************	-			-	\ - HCL	M - Hexane		
City: Tacoma	TAT Requested (da	ays):					~5											В	B - NaOH C - Zn Acetate	N - None O - AsNaO2		
State, Zip:						2	Mn, Pb											C	0 - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3		
WA, 98424 Phone:	PO #:				11	à	Fe, T				ľ							F	- MeOH G - Amchlor	R - Na2S2O3 S - H2SO4		
253-922-2310(Tel) Email:	WO #:			- Mariana de Cara de Cara de Cara de Cara de Cara de Cara de Cara de Cara de Cara de Cara de Cara de Cara de C	ş	F S	, Cd,											H	I - Ascorbic Acid	T - TSP Dode U - Acetone	ecahydrate	
Etitali.	VVO #.				ō	2 2	ss A										2	_o J	- DI Water (- EDTA	V - MCAA W - pH 4-5		
Project Name: Marshall Landfill	Project #: 59002669				mple (Yes or	S OF		ı									9		EDA	Y - Trizma Z - other (spe	ecify)	
Site:	SSOW#:																	-83	ther:			
				B# 4 4	S S	Perform MS/MSD (Yes or No)	6020B/FILTRATION (MOD)											700				
			Sample Type	Matrix (w=water,		30054				-							Total Number					
		Sample	(C=comp,	S=solid, O=waste/oil,	흥	Perform 6020B/30	20B/	_									1					
Sample Identification - Client ID (Lab ID)	Sample Date	Time		BT=Tissue, A=Air) ation Code:	尽		8 18	Z									1	+	Special In	structions/l	Note:	
MW-3: 113023 (590-22374-1)	11/30/23	10:45 Danifia		Water	ÍΪ	,	()	<										2				
MW-8: 113023 (590-22374-2)	11/30/23	Pacific 12:15 Pacific		Water	Ħ	٦,	()	(1						\neg	\top	1	2				
MW-9: 113023 (590-22374-3)	11/30/23	09:10 Pacific		Water	П	1,	()	\					\Box				2	2				
DUP 1: 113023 (590-22374-8)	11/30/23	09:00 Pacific		Water	П	7	()	\	1							1	2	2				
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Note: Since laboratory accreditations are subject to change, Eurofins Environment	Testing Northwest, L	LC places the	ownership of	method, analyte	& acc	reditat	tion co	mplian	ce upo	n our s	ubcontra	ct labo	ratories	This	samp	le shipi	ment is	s forv	varded under chain	-of-custody. If	the laborator	
does not currently maintain accreditation in the State of Origin listed above for ana status should be brought to Eurofins Environment Testing Northwest, LLC attention	iysis/tests/matrix beii n immediately. If all i	ng analyzed, th requested accr	ie samples mu editations are	ist be shipped b current to date,	ack to return	the Eu	urotins gned (S Enviro Chain o	nment of Custo	l esting ody atte	sting to	est, LL said co	C labor mpliand	e to Eu	r othe urofins	er instru s Enviro	ctions onmen	will b	oe provided. Any c sting Northwest, LL	nanges to accre C.	editation	
Possible Hazard Identification					[5	Samp	le Di	ispos	al (A	fee n						s are	retai	ined	longer than 1	month)		
Unconfirmed							-	-	Clier				osal B	y Lab)	<u> </u>	Arc	chiv	e For	Months		
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2				5	Specia	al Ins	structi	ons/Q	C Re	quirem	ents:										
Empty Kit Relinquished by:	Date:					e:							Metho	od of SI	hipme	ent:					1	
Relinguished by:	Date/Time: 12/4/23	11	1:35	EET S	e de	Re	ceiye	d by:	O.	W.	1			C	Date/1		h	Z	159DS	Company	и)	
Relinquished by:	by: Date/Time: Comp						Received by:						Ī	Date/1	1~				Company			
nquished by: Date/Time: Company				Company		Received by:					ni minina mana ani an			Date/1	Γime:				Company			
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No							oler T		ature(s	°C and	Other F	Remark	s:							<u> </u>		

Client: GeoEngineers Inc

Job Number: 590-22374-1

Login Number: 22374 List Source: Eurofins Spokane

List Number: 1

Creator: Morris, Mackenzie 1

Creator. Miorris, Miackerizie i		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: GeoEngineers Inc

Job Number: 590-22374-1

Login Number: 22374
List Number: 2

List Source: Eurofins Denver List Creation: 12/02/23 10:54 AM

Creator: Little, Matthew L

Oreator. Little, Matthew L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: GeoEngineers Inc Job Number: 590-22374-1

Login Number: 22374
List Source: Eurofins Seattle
List Number: 3
List Creation: 12/05/23 06:20 PM

Creator: Prigge, Madisor

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR11 10.8/11.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C Report Limitations and Guidelines for Use

APPENDIX C

REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This Appendix provides information to help you manage your risks with respect to the use of this report.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of the Washington State Department of Ecology (Ecology). This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Ecology should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for the Airport Kwik Stop site located in lone, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

Our report was prepared for the exclusive use of Ecology. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm and Ecology with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with Ecology and generally accepted environmental practices in this area at the time this report was prepared.

Environmental Regulations are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.



regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain Even After This Phase II ESA is Completed

No Environmental Site Assessment (ESA) can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Most Environmental Findings are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted, or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproductions are acceptable but recognize that separating logs from the report can elevate risk.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

Geotechnical, Geologic and Geoenvironmental Reports Should Not be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or



recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

If Ecology desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.



