

## Site Assessment

Roy Farms  
401 Walters Road  
Moxee, Washington

*for*  
**Washington State Department of Ecology**

December 4, 2024

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**GEOENGINEERS** 

# Site Assessment

Roy Farms  
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Moxee, Washington

File No. 0504-213-00  
December 4, 2024

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## Table of Contents

<b>1.0 Introduction .....</b>	<b>1</b>
<b>2.0 Site Description and Background.....</b>	<b>1</b>
2.1 Previous Investigations.....	1
<b>3.0 Scope of Work.....</b>	<b>2</b>
<b>4.0 Field Investigation Activities .....</b>	<b>2</b>
4.1 Soil Assessment and Subsurface Conditions.....	2
4.2 Groundwater Assessment .....	3
4.3 Investigation-Derived Waste .....	3
<b>5.0 Chemical Analytical Results.....</b>	<b>3</b>
5.1 Soil Chemical Analytical Results .....	4
5.2 Grab Groundwater Chemical Analytical Results .....	4
<b>6.0 Summary and Conclusions .....</b>	<b>5</b>
6.1 Recommendations.....	5
<b>7.0 Limitations.....</b>	<b>6</b>
<b>8.0 References.....</b>	<b>6</b>

### List of Tables

Table 1. Summary of Field Screening Results

Table 2. Chemical Analytical Results - Soil

Table 3. Chemical Analytical Results - Groundwater

### List of Figures

Figure 1. Vicinity Map

Figure 2. Site Plan

### Appendices

Appendix A. Field Procedures

Appendix B. Boring Logs

Figure B-1. Key to Exploration Logs

Figures B-2 through B-7. Logs of Borings

Appendix C. IDW Disposal Documentation

Appendix D. Chemical Analytical Laboratory Reports and Data Validation

Appendix E.. Report Limitations and Guidelines for Use

## 1.0 Introduction

This report describes soil and groundwater assessment activities conducted at the Roy Farms (herein referred to as “Site”) located at 401 Walters Road in Moxee, Washington, as shown on the attached Vicinity Map, Figure 1. The Washington State Department of Ecology (Ecology) reference numbers for the Site include Facility Site ID (FSID) No. 89739294 and Cleanup Site ID (CSID) No. 6830.

This assessment report has been prepared by GeoEngineers, Inc. (GeoEngineers) under Ecology Master Contract No. C1900044, task work assignment number GEI073. This report describes the Site history, field activities, observations and chemical analytical results associated with soil and groundwater samples collected at the Site. The purpose of this assessment is to evaluate soil and groundwater for potential contamination associated with the historic release of petroleum products from former underground storage tank (UST) systems. Data generated from this assessment will support a no further action (NFA) determination or planning of potential remedial actions within the defined project area to address ecological and human health risks associated with historical contamination.

## 2.0 Site Description and Background

The Roy Farms Site is located at 401 Walters Road in Moxee, Washington, parcel No. 201205-23007. Based on the Roy Farms website, city directory records and Google Maps™, the Site was established as a farm in 1907 and continues to be operated as a farm. The Site is occupied by multiple buildings for storing and processing harvested crops (primarily hops, apples, cherries and blueberries), office buildings, equipment maintenance buildings, a truck motor pool and equipment boneyard. The Site is surrounded by agricultural land to the north, east, south and west. A concrete-lined irrigation canal is adjacent to the Site on the east and Walters Road is adjacent on the west. Site features are shown in Site Plan, Figure 2.

### 2.1 PREVIOUS INVESTIGATIONS

Based on city directory records and Google Maps™, the site operates as a farmyard. In 1991, one 8000- gallon diesel underground storage tank (UST) was removed, petroleum-contaminated soil (PCS) was encountered and approximately 500 cubic yards were removed and land-farmed on site (PLSA 1991). The UST basin excavation was extended in each cardinal direction but was stopped when the integrity of an existing office building, a tree and farm operations were threatened.

Soil samples taken from the excavation walls and base were submitted for laboratory analysis. Results of the analyses indicated contaminants greater than the Washington State Model Toxics Control Act (MTCA) Method A cleanup level (CULs) remained. Diesel-range petroleum hydrocarbons (DRPH) were detected at 10,380 parts per million (ppm), benzene was not detected, toluene was detected at 9.79 ppm, ethylbenzene was detected at 12.0 ppm, xylene was detected at 48.1 ppm and lead was detected at 7.9 ppm. The excavation basin was about 12 feet deep. This pit was later converted into the basement of an office building extension.

Two gasoline UST tanks were reported to have been removed from the site in 1993, however, no site assessment was completed during this tank closure. In 2001, samples from the UST basin were collected and sent for laboratory analysis (PLSA, 2001). The samples showed that no contamination was detected,

but the locations of the confirmation samples were not confirmed, hence the data from the excavation was considered unreliable.

### 3.0 Scope of Work

To assess subsurface soil and groundwater for potential contamination associated with the former UST release described in Section 2.1, GeoEngineers completed the following scope of work:

- Coordinated underground utility locating using the State of Washington Utility Notification and Utilities Plus. Per state regulations, GeoEngineers mobilized to/from the Site to mark the proposed boring locations prior to initiating the locate request.
- Mobilized to/from the Site to conduct the sampling event.
- GeoEngineers advanced six borings (GEI073-B1 through GEI073-B6) using hollow-stem auger drilling techniques.
- Observed and documented subsurface soil conditions. Field screening consisted of visual observation, water sheen testing and headspace vapor measurements using a photoionization detector (PID).
- Collected soil samples for chemical analysis.
- Collected grab groundwater samples from temporary well points installed in four of the borings
- Backfilled borings with bentonite and completed borings with either topsoil or gravel to match the existing ground surface.
- Submitted soil samples and grab groundwater samples to Eurofins Analytical Testing Northwest (Eurofins) in Spokane Valley, Washington, for chemical analysis.
- Drummed and labeled investigation-derived waste (IDW). The IDW was profiled using analytical data from the soil borings and temporary well points as well as a composite soil sample analyzed for Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver). The IDW was disposed following the receipt of the analytical data.

### 4.0 Field Investigation Activities

GeoEngineers advanced soil borings and installed temporary well points to assess soil and groundwater conditions for potential residual contamination associated with the release from the UST systems. Soil samples and grab groundwater samples were collected and submitted for chemical analyses. Soil and grab groundwater sampling procedures are detailed in the Work Plan (GeoEngineers 2024) and included in Appendix A.

#### 4.1 SOIL ASSESSMENT AND SUBSURFACE CONDITIONS

Initial site reconnaissance occurred on July 25, 2024. During the visit, Site access was assessed and potential boring locations were marked. Site utilities located near the boring locations were identified and marked by Utilities Plus on August 1, 2024. Boring locations are shown in Figure 2.

A GeoEngineers hollow-stem auger drilling rig advanced six borings (GEI073-B1 through GEI073-B6) on August 8 and 9, 2024. The soil borings were advanced to between 19 and 26 feet below ground surface (bgs). Approximately 25 feet of interbedded sand and gravel was observed. Groundwater was observed between 13 and 18 feet bgs. Copies of the boring logs are included in Appendix B.

Soil samples recovered from the borings were field-screened for petroleum contamination. Field screening results are included in the boring logs in Appendix B and are summarized in Table 1.

Geoengineers backfilled the borings with bentonite chips and completed the borings with concrete, cold patch asphalt, or soil to match the existing ground surface.

## 4.2 GROUNDWATER ASSESSMENT

Grab groundwater samples were collected on August 8 and 9, 2024, from temporary well points installed in GEI073-B1, GEI073-B3, GEI073-B4, GEI073-B5 and GEI073-B6. Groundwater was not sampled in GEI073-B2 due to the presence of approximately 0.3-feet of free-phase petroleum hydrocarbons measured on the water table. Groundwater quality parameters at the time of sampling for the grab groundwater samples are summarized in the table below.

### GROUNDWATER FIELD PARAMETERS

SOIL BORING	FIELD MEASURED WATER QUALITY PARAMETERS AT TIME OF SAMPLING						
	APPROXIMATE DEPTH TO GROUNDWATER (FEET BGS)	PH (SU)	SPECIFIC CONDUCTIVITY (MS/CM)	ORP (MV)	DISSOLVED OXYGEN (MG/L)	TURBIDITY (NTU)	TEMPERATURE (DEGREES C)
GEI073-B1	18.00	9.46	2.401	130.5	0.86	3285	24.3
GEI073-B3	20.00	8.41	2.361	30.1	0.31	3023	22.8
GEI073-B4	17.87	7.62	3.364	139.3	5.51	199	30.0
GEI073-B5	17.50	7.99	2.939	108.2	0.60	2026	20.3
GEI073-B6	18.00	9.03	2.413	183.9	8.2	2954	20.5

Notes:

bgs = below ground surface; SU=standard units,  $\mu\text{S}/\text{cm}$  = micro-Siemens per centimeter; mV = millivolts; mg/L = milligrams per liter; NTU = nephelometric turbidity unit; C = Celsius.

## 4.3 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) including soil cuttings from the borings and purge water from the temporary well points were placed in two 55-gallon drums and temporarily stored on site pending analysis and disposal. Graymar Environmental, Inc. (Graymar) collected the IDW on October 10, 2024, and disposed the IDW at Chemical Waste Management of the NW, Inc., in Arlington, Oregon on October 10, 2024. Graymar's disposal manifest is included in Appendix C, IDW Disposal Documentation.

## 5.0 Chemical Analytical Results

The following sections describe soil and groundwater chemical analytical results. Laboratory reports and a data validation report are included in Appendix D, Chemical Analytical Laboratory Reports and Data

Validation Report. Soil and groundwater samples were submitted to Eurofins Environment Testing (Eurofins) for analysis of the following contaminants of concern (COCs):

- GRPH using Northwest Method NWTPH-Gx;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), 1,2-dichloroethane (EDC) and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260D;
- 1,2-dibromoethane (EDB) using EPA method 8011;
- DRPH and ORPH using Northwest Method NWTPH-Dx; and DRPH/ORPH using NWTPH-Dx with Silica Gel Cleanup (SGC).
- Total and dissolved (groundwater samples) lead using EPA method 6010D.

## 5.1 SOIL CHEMICAL ANALYTICAL RESULTS

Seven soil samples and one duplicate were submitted for chemical analysis. Soil chemical analytical results are presented and compared to MTCA Method A cleanup levels for unrestricted land use in Table 2, Chemical Analytical Results—Soil. Soil sample results are summarized below:

- GRPH was detected in GEI073-B2(13-14) at a concentration of 1,600 milligrams per kilogram (mg/kg) and GEI073-B3(10-11) at 83 mg/kg, greater than the MTCA Method A cleanup level (30 mg/kg when benzene is present). GRPH was detected in GEI073-B4(13-14) but the concentration was not greater than the Method A level when benzene was present.
- Ethylbenzene and naphthalene concentrations (6.1 and 6.4 mg/kg, respectively) in GEI073-B2(13-14) exceeded the MTCA Method A cleanup levels (6.0 and 5.0 mg/kg, respectively). Total xylene was also detected but was not greater than the Method A level.
- DRPH was detected in GEI073-B3(10-11) at a concentration of 3,200 mg/kg and greater than the MTCA Method A cleanup level (2,000 mg/kg). DRPH and ORPH were detected in the six collected soil samples but were not greater than the Method A cleanup levels.
- Total lead was not detected in the soil samples.

## 5.2 GRAB GROUNDWATER CHEMICAL ANALYTICAL RESULTS

Five grab groundwater samples and one duplicate sample were submitted to Eurofins for analysis of the COCs described above. Dissolved metals samples were field-filtered using a 0.45-micron filter and laboratory-filtered using 0.45-micron and 2-micron filters for comparison purposes. DRPH/ORPH samples were analyzed with and without SGC. SGC is an analytical process that uses silica gel, a polar material, to remove polar organic compounds, including polar metabolites from each sample that may be present at the Site due to weathering and biodegradation of petroleum in groundwater over time (Ecology 2023).

Groundwater chemical analytical results are presented and compared to MTCA Method A cleanup levels in Table 3, Chemical Analytical Results—Groundwater results are summarized below:

- GRPH was detected in GEI073-B5 at a concentration of 9,200 micrograms per liter ( $\mu\text{g/L}$ ), greater than the MTCA Method A cleanup level (800  $\mu\text{g/L}$  when benzene is present). GRPH was also detected in GEI073-B3 and GEI-73-B4 but was not greater than the Method A cleanup level.

- BTEX and naphthalene concentrations in GEI073-B3 and GEI073-B5, benzene in GEI073-B1, naphthalene in GEI073-B4, and ethylbenzene, xylenes and naphthalene in GEI073-B6 were detected, but were not greater than the Method A cleanup levels.
- Combined DRPH/ORPH was detected in GEI073-B3 and GEI073-B5 (10,140 and 3,000 µg/L, respectively), greater than the MTCA Method A cleanup level (500 µg/L). Combined DRPH/ORPH were detected in other grab groundwater samples but were not greater than the Method A cleanup level.
- Combined DRPH/ORPH following SGC was detected in GEI073-B3 and GEI073-B5 (11,230 µg/L and 2,800 µg/L, respectively).
- Total and dissolved lead were not detected in the grab groundwater samples.

## 6.0 Summary and Conclusions

Six soil borings were advanced on August 8 and 9, 2024, at the Roy Farms located at 401 Walters Road in Moxee, Washington. Soil samples were collected from the borings and grab groundwater samples were collected from five of the six borings through temporary wells. Groundwater was not sampled from one boring (GEI073-B2) due to the presence of free-phase petroleum hydrocarbons.

Laboratory analytical results from borings GEI073-B2 and GEI073-B3 indicate that GRPH contamination is present in soil at concentrations greater than the MTCA Method A cleanup level. Ethylbenzene and naphthalene concentrations in GEI073-B2 were greater than the cleanup levels.

Laboratory analytical results from grab groundwater sample GEI073-B5 indicate that GRPH and DRPH contamination, and combined DRPH/ORPH in GEI073-B3 (with and without SGC) is present in groundwater at concentrations greater than the MTCA Method A cleanup levels. The DRPH/ORPH results using SGC indicate that DRPH at the Site does not represent heavily degraded petroleum hydrocarbons.

Other COCs were either not detected or were detected at concentrations less than the MTCA Method A cleanup levels in soil and groundwater samples collected.

Based on the results of this assessment, GRPH and DRPH/ORPH contamination is present at the site in soil and groundwater in concentrations exceeding MTCA Method A cleanup levels. Contamination is present to the east, southeast and west of the former UST basin. Contamination does not appear to extend to the north as evidenced in GEI073-B1 or to the south, as shown in GEI073-B4 and GEI-073-B6. Borings with soil and/or groundwater contamination greater than the MTCA Method A cleanup levels are shown in Figure 2.

### 6.1 RECOMMENDATIONS

Based on the results of this soil and groundwater assessment additional soil and groundwater sampling is recommended to assess the extent of petroleum-related contamination at the Site. Additional assessment may include advancing additional soil borings adjacent to areas where contamination was identified and installing groundwater monitoring wells. Future site plans should prioritize characterization and removal of the free-phase petroleum hydrocarbons. Without additional assessment, remediation, and monitoring, this site will not achieve closure with Ecology.



## 7.0 Limitations

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

Within the limitations of scope, schedule and budget, our services have been 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, judgement and experience. No warranty or other conditions, express or implied, should be understood.

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

## 8.0 References

GeoEngineers, Inc. 2024. "Work Plan, Soil and Groundwater Assessment, Roy Farms, 401 Walters Road, Moxee, Washington." July 26, 2024. File No. 0504-213-00.

PLSA 1991. "Site Assessment and Intermediate Cleanup Report on Leaking Underground Storage Tank Removal" Roy Farms, Moxee, Washington. July 1991.

PLSA 2001. "Site Assessment Engineering Report, Underground Storage Tank Removal", Roy Farms, 401 Walter Road, Moxee, Washington. December 2001.

Washington Department of Ecology. 2013. "Model Toxics Control Act Regulation and Statute, Chapter 173-340 WAC and 70.105D RCW." Revised January 2024, Publication 94-06.

Washington Department of Ecology. 2023. "Guidance for Silica Gel Cleanup in Washington State." November 2023. Publication 22-09-059.

## Tables

**Table 1**  
**Summary of Field Screening Results**  
 Roy Farms  
 Moxee, Washington

Soil Boring	Depth (Feet bgs)	PID (ppm)	Sheen
GEI073-B1	2.5-4	2.2	NS
	5-6.5	1.2	NS
	7.5-9	0.7	NS
	10-11.5	0.3	NS
	15-16.5	0.9	NS
	20-21.5	0.8	NS
	25-26.5	0.8	NS
GEI073-B2	2.5-4	2.7	NS
	5-6.5	450	HS
	7.5-9	389	HS
	10-11.5	460	HS
	12.5-14	830	HS
	17.5-19	1,175	HS
	20-21.5	1,216	HS
GEI073-B3	2.5-4	129	HS
	5-6.5	30	SS
	7.5-9	354	HS
	10-11.5	391	HS
	12.5-14	332	SS
	15-16.5	16	SS
	17.5-19	9.2	SS
GEI073-B4	2.5-4	4	NS
	5-6.5	3.7	NS
	7.5-9	2	NS
	10-11.5	1.3	NS
	12.5-14	0.7	NS
	15-16.5	1.4	NS
	17.5-19	4.2	NS
GEI073-B5	2.5-4	2.8	NS
	5-6.5	2	NS
	7.5-9	1.7	NS
	10-11.5	2.6	NS
	15-16.5	1	NS
	17.5-19	217.5	HS
	20-21.5	650	HS
	22.5-24	912	HS
	25-26.5	118	SS
GEI073-B6	2.5-4	4.7	NS
	5-6.5	2.5	NS
	7.5-9	1.9	NS
	10-11.5	2.4	NS
	15-16.5	1.1	NS
	17.5-19	1.5	NS
	20-21.5	1.8	NS

Notes:

bgs = below ground surface

PID = Photoionization Detector; ppm = parts per million

NS = No sheen, SS = Slight Sheen; HS = Heavy Sheen

Table 2  
Chemical Analytical Results - Soil<sup>1</sup>  
Roy Farms  
Moxee, Washington

Sample Location			GEI073-B1		GEI073-B2		GEI073-B3		GEI073-B4		GEI073-B5		GEI073-B5		GEI073-DUP (B5)		GEI073-B6	
Sample Depth (feet bgs)			10-11.5		13-14		10-11		13-14		5-6		10-11		10-11		8-9	
Sample Date			8/8/2024		8/8/2024		8/8/2024		8/8/2024		8/8/2024		8/8/2024		8/8/2024		8/8/2024	
Analyte		MTCA CUL <sup>6</sup>	Units															
Petroleum Hydrocarbons by NWTPH-Gx and NWTPH-Dx <sup>2</sup>																		
GRPH	30	mg/kg	1.5	U	1,600		83	J	26	J	2.3	U	2.0	U	1.5	U	1.4	U
DRPH	2,000	mg/kg	15	J	1,500	J	3,200	J	5.5	J	6.6	J	6.7	J	8.2	J	5.2	J
ORPH	2,000	mg/kg	7.2	J	23.0	J	28		8.7	J	35		11	J	49		6.6	J
VOCs <sup>3</sup>																		
Benzene	0.03	mg/kg	0.0082	U	0.085	U	0.011	U	0.011	U	0.013	U	0.011	U	0.0086	U	0.0076	U
Toluene	7	mg/kg	0.037	U	0.38	U	0.051	U	0.050	U	0.057	U	0.05	U	0.039	U	0.034	U
Ethylbenzene	6	mg/kg	0.013	U	6.1		0.018	U	0.018	U	0.02	U	0.018	U	0.014	U	0.012	U
m, p-Xylene	NE	mg/kg	0.024	U	6.1		0.032	U	0.032	U	0.036	U	0.032	U	0.025	U	0.022	U
o-Xylene	NE	mg/kg	0.019	U	0.35	J	0.026	U	0.025	U	0.029	U	0.026	U	0.020	U	0.017	U
Xylenes (total)	9	mg/kg	0.042	U	6.4		0.06	U	0.057	U	0.065	U	0.057	U	0.044	U	0.039	U
1,2-Dichloroethane (EDC)	5	mg/kg	0.018	U	0.19	U	0.025	U	0.024	U	0.027	U	0.024	U	0.019	U	0.017	U
Methyl tert-butyl ether	0.1	mg/kg	0.025	U	0.26	U	0.034	U	0.033	U	0.038	U	0.033	U	0.026	U	0.023	U
Naphthalene	5	mg/kg	0.023	U	6.4		0.16	J	0.031	U	0.036	U	0.031	U	0.024	U	0.021	U
1,2-Dibromoethane (EDB) <sup>4</sup>	0.005	mg/kg	0.000036	u	0.000038	U	0.000038	U	0.000037	U	0.000038	U	0.000037	U	0.000038	U	0.000035	U
Metals <sup>5</sup>																		
Lead	250	mg/kg	12	U	11	U	12	U	12	U	11	U	11	U	12	U	11	U

Notes

<sup>1</sup>Samples analyzed by Eurofins Environment Testing located in Spokane Valley, Washington.

<sup>2</sup>Gasoline-range petroleum hydrocarbons (GRPH); Diesel-range petroleum hydrocarbons (DRPH); Residual-range petroleum hydrocarbons (ORPH).

<sup>3</sup>Volatile organic compounds (VOCs) analyzed using EPA Method 8260D.

<sup>4</sup>1,2-Dibromomethane (EDB) analyzed using EPA Method 8011.

<sup>5</sup>Metals analyzed using EPA Method 6010D.

<sup>6</sup>MTCA Method A unrestricted land use cleanup levels (CUL).

<sup>7</sup>Gasoline-range hydrocarbons when benzene is present .

mg/kg = milligrams per kilogram.

bgs = below ground surface.

NE = not established.

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

J = estimated concentration.

**Bold** indicates analyte was detected.

**Bold** with grey shading indicates analyte was detected greater than the MTCA Method A cleanup level.

**Table 3**  
**Chemical Analytical Results - Groundwater<sup>1</sup>**  
 Roy Farms  
 Moxee, Washington

			GEI073-B1-080824				GEI073-B2			GEI073-B3:080924		GEI073-B4:080924		GEI073-B5:080924		GEI073-080924DUP (B5)		GEI073-B6:080924	
			8/8/2024				8/8/2024			8/9/2024		8/9/2024		8/9/2024		8/9/2024		8/9/2024	
Analyte		MTCA CUL <sup>6</sup>	Units																
Petroleum Hydrocarbons by NWTPH-Gx and NWTPH-Dx <sup>2</sup>																			
GRPH	800	µg/L	54	U	NS		390	J	92	J	9,200		8,100		54	U			
DRPH	500	µg/L	110	U	NS		9,900	J	130	J	3,000		2,000		100	U			
ORPH	500	µg/L	120	U	NS		240	J	110		120	U	120	U	110	U			
Combined DRPH/ORPH	500	µg/L	NA		NS		10,140		130	J	3,000		2,000		NA				
Petroleum Hydrocarbons with Silica Gel Cleanup (SGC)																			
DRPH	500	µg/L	110	U	NS		11,000		110		2,800		1,700		110	U			
ORPH	500	µg/L	120	U	NS		230	J	110		120		120		110				
Combined DRPH/ORPH	500	µg/L	120	U	NS		11,230		110		2,800		1,700		110	U			
VOCs <sup>3</sup>																			
Benzene	5	µg/L	0.14	J	NS		0.26	J	0.093	U	0.57		0.54		0.093	U			
Toluene	1,000	µg/L	0.31	U	NS		0.42	J	0.31	U	1.0		1.0		0.31	U			
Ethylbenzene	700	µg/L	0.20	U	NS		0.49	U	0.20	U	110		110		0.33	U			
m, p-Xylene	NE	µg/L	0.28	U	NS		0.43	U	0.28	U	150		130		0.48	U			
o-Xylene	NE	µg/L	0.16	U	NS		0.17	J	0.16	U	3.8		3.6		0.16	U			
Xylenes (total)	1,000	µg/L	0.44	U	NS		0.17	J	0.44	U	150		140		0.48	U			
1,2-Dichloroethane (EDC)	5	µg/L	0.31	U	NS		0.31	U	0.31	U	0.60	J	0.31	U	0.31	U			
Methyl tert-butyl ether	20	µg/L	0.16	U	NS		0.16	U	0.16	U	0.16	U	0.16	U	0.16	U			
Naphthalene	160	µg/L	0.63	U	NS		18		0.72	U	83		78		1.3	U			
1,2-Dibromoethane (EDB) <sup>4</sup>	0.01	µg/L	0.0025	U	NS		0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U			
Metals <sup>5</sup>																			
Total Lead	15	µg/L	5.1	U	NS		5.1	U	5.1	U	5.1	U	5.1	U	5.1	U			
Dissolved Lead (0.45 µ filter)	15	µg/L	5.1	U	NS		5.1	U	5.1	U	5.1	U	5.1	U	5.1	U			
Dissolved Lead (2 µ filter)	15	µg/L	5.1	U	NS		5.1	U	5.1	U	5.1	U	5.1	U	5.1	U			

Notes

<sup>1</sup>Samples analyzed by Eurofins Environment Testing located in Spokane Valley, Washington.

<sup>2</sup>Gasoline-range petroleum hydrocarbons (GRPH); Diesel-range petroleum hydrocarbons (DRPH); Oil-range Petroleum hydrocarbons (ORPH).

<sup>3</sup>Volatile organic compounds (VOCs) analyzed using EPA Method 8260D.

<sup>4</sup>1,2-Dibromomethane (EDB) analyzed using EPA Method 8011.

<sup>5</sup>Metals analyzed using EPA Method 6010D.

<sup>6</sup>MTCA Method A unrestricted land use cleanup levels (CUL).

<sup>7</sup>Gasoline-range hydrocarbons when benzene is present.

µg/kg = micrograms per kilogram.

NS = not sampled due to the presence of free-phase petroleum hydrocarbons

NE = not established.

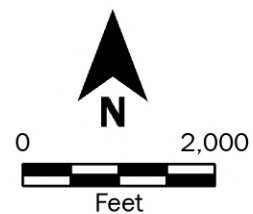
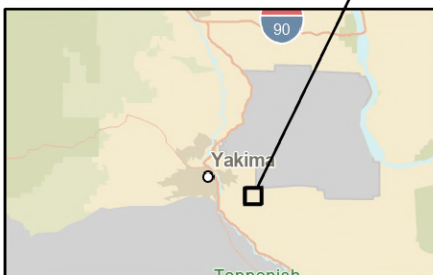
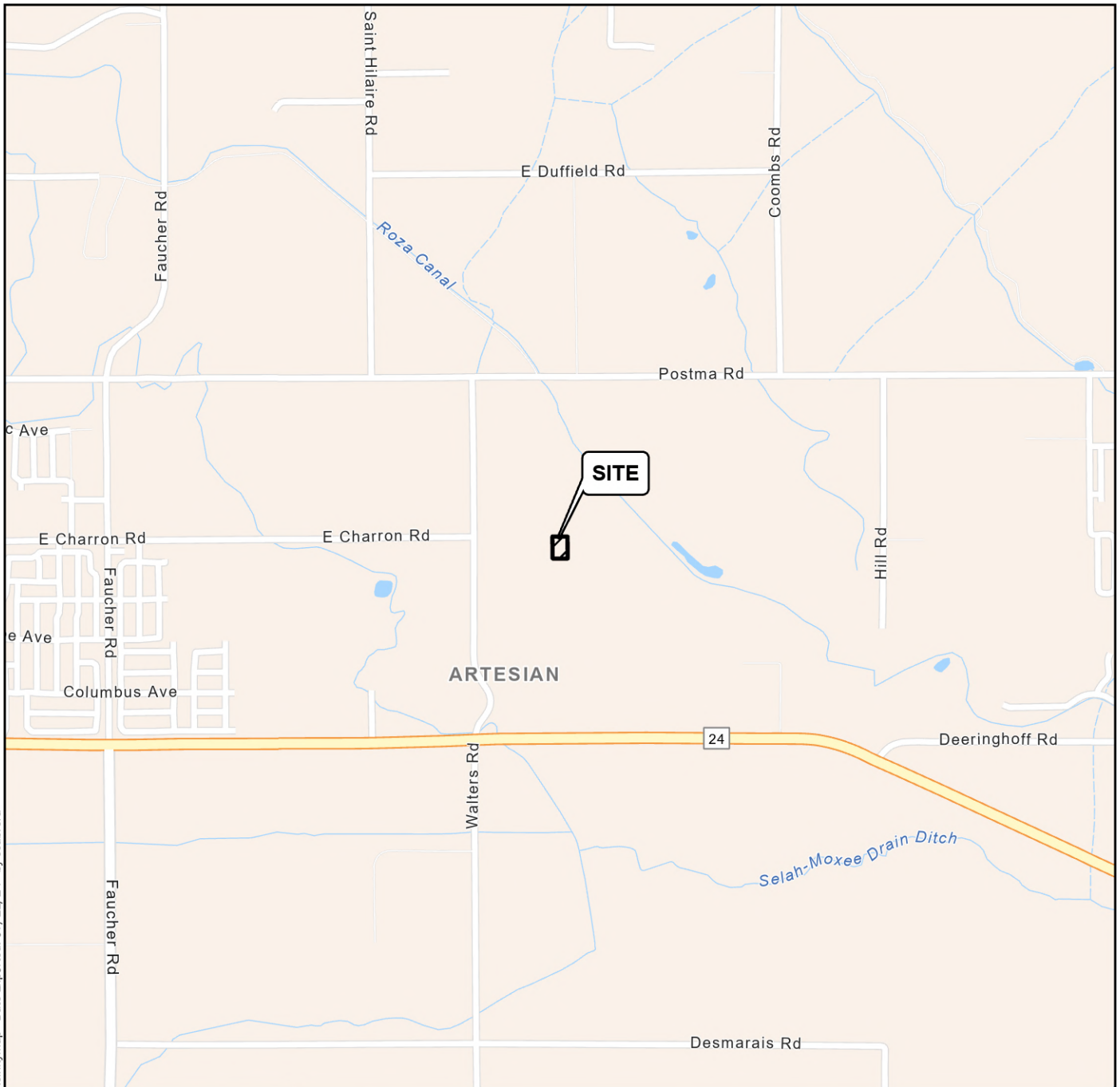
U = analyte was not detected above the laboratory method detection limit (MDL).

J = estimated concentration.

**Bold** indicates analyte was detected.

**Bold** with gray shading indicates the reported analyte concentration was greater than the MTCA Method A CUL.

## Figures



Source(s):  
• ESRI

Coordinate System: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet  
**Disclaimer:** This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

### Vicinity Map

Roy Farms  
Moxee, Washington



Figure 1

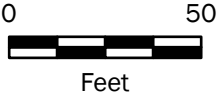


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**Legend**

- Boring Number and Approximate Location
- Approximate Location of Former UST/Excavation
- Indicates Soil and/or Groundwater MTCA Method A Cleanup Level Exceedances
- Investigation Area



Source(s):  
• Bing Imagery

Coordinate System: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet  
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Site Plan	
Roy Farms Moxee, Washington	
GEOENGINEERS	Figure 2



## Appendices

## Appendix A

### Field Procedures

## Appendix A Field Procedures

### GENERAL

Subsurface conditions at the site were explored in August 2024 by advancing six borings and installing temporary wells at the approximate locations shown in Figure 2. The borings were advanced to between 18 and 25 feet below existing site grade using a CME-75 hollow stem auger drilling rig. Boring locations were established in the field using a site plan and measurements from on-site structures. Consequently, exploration locations should be considered accurate to the degree implied by the method used. Soil and grab groundwater samples were collected on August 8 and 9, 2024.

Field methods generally were performed in compliance with the project Work Plan assessment procedures.

### FIELD SCREENING OF SOIL SAMPLES

Field screening methods were used to select samples for laboratory chemical analysis.

A GeoEngineers' field representative performed visual and physical field screening tests on soil samples and recorded the observations in the field boring log and in the field notebook. Field screening results were used to aid in the selection of soil samples for laboratory chemical analysis.

Screening methods included (1) visual examination; (2) water-sheen screening; and (3) headspace vapor screening using a PID equipped with a moisture filter. Visual screening consisted of inspecting the soil for discoloration indicative of the presence of petroleum-impacted material or other contaminants in the sample.

Water-sheen screening involved placing soil in water and observing the water surface for signs of sheen. Water-sheen screening will be performed at each interval selected for field screening. Sheen classifications are as follows:

- **No Sheen (NS)** No visible sheen on the water surface;
- **Slight Sheen (SS)** Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil might produce a slight sheen;
- **Moderate Sheen (MS)** Light to heavy sheen; might have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface; and
- **Heavy Sheen (HS)** Heavy sheen with color/iridescence; spread is rapid; entire water surface might be covered with sheen.

Headspace vapor screening involves placing a soil sample into a sealed plastic bag and measuring the airspace VOC vapor concentrations in parts per million (ppm) with a PID. The PID typically is designed to quantify VOC vapor concentrations in the range between 1 ppm and 2,000 ppm with an accuracy of +/-10 percent of the reading, and between 2,000 ppm and 5,000 ppm with an accuracy of +/- 20 percent of the reading. The procedure for headspace vapor screening is:

- At various depths in the soil core, two co-located samples were collected with clean nitrile gloves or a soil knife and placed in two separate plastic bags. The bags were labeled with the sample depths from which the samples are obtained.
- One sample was left to volatilize and the other will be immediately put on ice to limit any volatilization from occurring.
- The bagged samples left out to volatilize were manually agitated in the bag, and then screened with the PID calibrated to isobutylene following the manufacturer's instructions. The probe of the PID was inserted into a small opening in the bag seal and the VOC concentration measured.
- The co-located samples with the highest PID screening from each interval were placed in appropriate laboratory-prepared sample containers.

## GROUNDWATER SAMPLING

Depth to groundwater relative to the ground surface was measured to the nearest 0.01-foot using an electronic interface probe and recorded in the field notes.

Following depth to groundwater measurement, a groundwater sample was collected from the monitoring well consistent with the EPA's low-flow groundwater sampling procedure, as described in EPA (2017) and Puls and Barcelona (1996). Dedicated tubing and a peristaltic pump were used for groundwater purging and sampling. During purging activities, water quality parameters, including pH, temperature, conductivity, dissolved oxygen (DO), oxygen-reduction potential (ORP) and turbidity, were measured and recorded using a multi-parameter meter equipped with a flow-through cell. Each monitoring well was purged until parameters stabilize for three consecutive readings, or for a maximum of 30 minutes, whichever occurs first, before collecting the sample. Stability is defined as the following:

- pH: +/- 0.1 pH units;
- Specific Conductance: +/- 10.0 micromhos per centimeter ( $\mu\text{mhos/cm}$ ) for values < 1000  $\mu\text{mhos/cm}$  or +/- 20.0  $\mu\text{mhos/cm}$  for values > 1000  $\mu\text{mhos/cm}$ ;
- ORP: +/- 10 millivolts (mV);
- Turbidity: less than 10 nephelometric turbidity unit (NTUs) or +/- 10 percent NTUs when turbidity is greater than 10 NTUs;
- DO: +/- 0.5 milligrams per Liter (mg/L) for values < 1 mg/L or +/- 0.2 mg/L for values > 1 mg/L; and
- Temperature: +/- 3 percent degrees Celsius.

Samples were not collected from the boring if measurable free product was recorded. Field water quality measurements and depth-to-water measurements were recorded on a Well Purging-Field Water Quality Measurement Form. Groundwater samples were transferred in the field to laboratory-prepared sample containers and kept cool during transport to the testing laboratory. COC procedures were observed from the time of sample collection to delivery to the testing laboratory consistent with the QAPP.

## Appendix B

### Boring Logs

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND
SANDS WITH FINES			SM	SILTY SANDS, SAND - SILT MIXTURES	
(APPRECIABLE AMOUNT OF FINES)			SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC 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

	Modified California Sampler (6-inch sleeve) or Dames & Moore
	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.

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.

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/Quarry Spalls
	<b>SOD</b>	Sod/Forest Duff
	<b>TS</b>	Topsoil

### Groundwater Contact



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 unit

### Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction 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
PI	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

## Key to Exploration Logs



Figure B-1

Drilled	Start 8/8/2024	End 8/8/2024	Total Depth (ft)	26.5	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			1152 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75
Easting (X) Northing (Y)			1677783 446168		System Datum		WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed	
Notes: Boring backfilled with bentonite chips and asphalt to match existing layer										

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0							AC	Approximately 5 inches of asphalt concrete pavement			
1150							SW	Dark brown sand (dense, dry)			
	10	32		GEI073-B1 (3-4)					NS	2.2	
5		3	50/4"				SP	Dark brown sand with gravel and cobbles (very dense, dry)	NS	1.2	
1145		2	50					Becomes with black staining and without cobbles	NS	0.7	
10		10	95	GEI073-B1 (10-11) CA				Becomes with cobbles	NS	0.3	
1140		0	50/3"					No recovery			
15		2	50/5"					No recovery	NS	0.9	
1135			50/2"					No recovery			
20		2	50/2"					Becomes brown and wet		0.8	Groundwater encountered at approximately 18½ feet
1130											
25		11	26	GEI073-B1 (25-26)			SP	Brown sand with silt and occasional gravel (medium dense, wet)	NS	0.8	Set temporary well at 25 feet bgs and collect grab groundwater sample GEI073-B1:080824

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring GEI073-B1



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-2  
Sheet 1 of 1

Drilled	Start 8/8/2024	End 8/8/2024	Total Depth (ft)	21.5	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			1153 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75
Easting (X) Northing (Y)			1677825 446138		System Datum		WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed	
Notes: Boring backfilled with bentonite chips and gravel to match existing layer										

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name/Testing						
0						SP	Dark brown sand with gravel (loose, dry)				
1150		2	8					NS	2.7		
	5	5	26	GEI073-B2 (5-6)			Becomes with dark staining	HS	450		
1145		6	50/5"					HS	389		
	10	5	51/4.5"				Becomes with occasional basalt cobbles and very dense	HS	460		
1140		5	50/3"	GEI073-B2 (13-14) CA			Becomes wet	HS	830		Groundwater encountered at approximately 13¾ feet
	15	0	50/2"				No recovery				
1135		2.8	50/5.5"	GEI073-B2 (19-20)		SPSM	Black coarse sand with silt and gravel (very dense, wet)	HS	1175		
	20	2.5						HS	1216		Set temporary well at 20 feet bgs and collect grab groundwater sample GEI073-B2:080824

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

## Log of Boring GEI073-B2



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-3  
Sheet 1 of 1



Drilled	Start 8/8/2024	End 8/9/2024	Total Depth (ft)	21.5	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger
Surface Elevation (ft) Vertical Datum	1151 NAVD88			Hammer Data	Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75	
Easting (X) Northing (Y)	1677842 446044			System Datum	WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed		
Notes: Boring backfilled with bentonite chips and completed without gravel to match existing layer									

Elevation (feet)	Depth (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					
1150	0						SP-SM	Black sand with gravel, cobbles and silt (medium dense, dry)			
		8	15		GEI073-B3 (3-4)				HS	129	
	5	7	54				GP	Gravel with cobbles and coarse sand (very dense, dry)	SS	30	
1145		7	50/5"						HS	354	
	10	10	50/3"		GEI073-B3 (10-11) CA		SP	Black stained sand with gravel (very dense, dry)	HS	391	
		2	50/5"					Becomes gravel with coarse sand	SS	332	Groundwater encountered at approximately 13 feet
1140			50/3"					Becomes with cobbles and wet	SS	16	
1135			50/5"		GEI073-B3 (19-20)				SS	9.2	
	20		50/3"				SP	Coarse sand with gravel (very dense, wet) Poor recovery	SS	19.4	
1130											Set temporary well at 20 feet bgs and collect grab groundwater sample GEI073-B3:080824

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring GEI073-B3



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-4  
Sheet 1 of 1

Date: 9/6/24 Path: P:\0\0504213\GINT\50421300.GPJ DBLibrary/Library\GeoEngineers\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 8/9/2024	End 8/10/2024	Total Depth (ft)	19	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			1150 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75
Easting (X) Northing (Y)			1677808 445954		System Datum		WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed	
Notes: Boring backfilled with bentonite chips										

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0							SP	Brown sand with gravel (dense, dry)			
1145		3	35						NS	4.0	
5		6	23		GEI073-B4 (5-6)		SP	Brown sand with occasional cobble (medium dense, dry)	NS	3.7	
1140		2	50/5"					Becomes with gravel, without cobble and very dense	NS	2.0	
10		3	50/2"						NS	1.3	
1135		5	50/5"		GEI073-B4 (13-14) CA				NS	0.7	
15		4	50/2"				SP	Coarse sand with gravel (very dense, wet)	NS	1.4	
		5	50/3"		GEI073-B4 (17.5-19)				NS	4.2	Groundwater encountered at approximately 17½ feet Set temporary well at 18 feet bgs and collect grab groundwater sample GEI073-B4:080824
								Practical refusal at 18.5 feet bgs			

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring GEI073-B4



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-5  
Sheet 1 of 1

Drilled	Start 8/9/2024	End 8/9/2024	Total Depth (ft)	26.5	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			1146 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75
Easting (X) Northing (Y)			1677706 445990		System Datum		WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed	
Notes: Boring backfilled with bentonite chips and completed with asphalt to match existing surface										

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
1145	0						AC	Approximately 5 inches of asphalt concrete pavement			
							SP	Brown sand with occasional gravel (medium dense, dry)			
		4	15						NS	2.8	
1140	5		39		GEI073-B5 (5-6) CA				NS	2.0	
		5	50/5"				SP	Brown sand with gravel (very dense, dry)	NS	1.7	
1135	10	6	50/2"		GEI073-B5 (10-11) CA			Becomes with occasional cobble	NS	2.6	
			50/2"					No recovery			
1130	15	4	50/5"				GP	Gravel with brown sand (very dense, dry)		1.0	
		12	50/5"				SP	Dark black stained coarse sand with gravel (very dense, wet)	HS	217.5	Groundwater encountered at approximately 17½ feet
1125	20	12	50/4"				GP	Gravel with coarse sand (very dense, wet)	HS	650	
		3	50/3"		GEI073-B5 (23-24)				HS	912	
1120	25	11	23						SS	118	Set temporary well at 25 feet bgs and collect grab groundwater sample GEI073-B5:080824

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring GEI073-B5



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-6  
Sheet 1 of 1

Date: 9/6/24 Path: P:\005604213\GINT\50421300.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Drilled	Start 8/9/2024	End 8/9/2024	Total Depth (ft)	21.5	Logged By Checked By	LO APP	Driller GeoEngineers, Inc.	Drilling Method	Hollow-stem Auger	
Surface Elevation (ft) Vertical Datum			1150 NAVD88		Hammer Data		Autohammer 140 (lbs) / 30 (in) Drop		Drilling Equipment	CME-75
Easting (X) Northing (Y)			1677700 446131		System Datum		WA State Plane South NAD83 (feet)		See "Remarks" section for groundwater observed	
Notes: Boring backfilled with bentonite chips and completed with asphalt to match existing surface										

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
	0						TS	Vegetation/Top soil upper 5 inches			Groundwater encountered at approximately 13½ feet
						GP	Crushed gravel with sand (very dense, dry)				
		6	75		GEI073-B6 (3-4)			NS	4.7		
1145	5	12	50/5"				SP	Brown sand with gravel (very dense, dry)	NS	2.5	
		4	50/2"		GEI073-B6 (8-9) CA			NS	1.9		
1140	10	12	50/5"					NS	2.4		
		0	50/1"								
1135	15	12	50/5"				GP	Gravel with coarse sand and trace silt (very dense, wet)	NS	1.1	
		3	50/2"					NS	1.5		
1130	20	4	50/4"		GEI073-B6 (20-21)			NS	1.8		
Set temporary well at 21 feet bgs and collect grab groundwater sample GEI073-B6:080824											

Note: See Figure B-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

### Log of Boring GEI073-B6



Project: Roy Farms  
Project Location: Moxee, Washington  
Project Number: 504-213-00

Figure B-7  
Sheet 1 of 1

## Appendix C

### IDW Disposal Documentation

ML639

GENERATOR	<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 866-472-9627	4. Waste Tracking Number 100224-NH1			
	5. Generator's Name and Mailing Address WA Department of Ecology 401 Western Road Moxee, WA 98620 Generator's Phone: 206-256-8328				Generator's Site Address (if different than mailing address)				
	6. Transporter 1 Company Name Graymar Environmental Services				U.S. EPA ID Number WAH00005713				
	7. Transporter 2 Company Name				U.S. EPA ID Number				
	8. Designated Facility Name and Site Address Chemical Waste Management of the NW, Inc. 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 541-454-2643				U.S. EPA ID Number ORD069452353				
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
			No.	Type					
	1. NONRCRA / NONDOT REGULATED MATERIAL (IDW/ SOIL)		6	DM	1200	P			
	2. NONRCRA / NONDOT REGULATED MATERIAL (PURGE WATER)		1	DM	600	P			
	3.								
4.									
13. Special Handling Instructions and Additional Information 01: (OR360860) IDW Soil 02: (OR360861) Purge Water									
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.									
TRANSPORTER	Generator's/Offeror's Printed/Typed Name				Signature		Month	Day	Year
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit:				
	Transporter Signature (for exports only):				Date leaving U.S.:				
	16. Transporter Acknowledgment of Receipt of Materials								
TRANSPORTER	Transporter 1 Printed/Typed Name				Signature		Month	Day	Year
	Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
DESIGNATED FACILITY	17. Discrepancy								
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	Manifest Reference Number:								
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)				U.S. EPA ID Number				
	Facility's Phone:								
	17c. Signature of Alternate Facility (or Generator)				Month Day Year				
DESIGNATED FACILITY	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
	Printed/Typed Name				Signature		Month	Day	Year

**Appendix D**  
**Chemical Analytical Laboratory Reports and**  
**Data Validation**

## Appendix D

### Analytical Laboratory Report

#### SAMPLES

Chain-of-custody procedures were followed during the transport of the field samples to Eurofins Environmental Testing Laboratory located in Spokane, Washington. The samples were held in cold storage pending extraction and/or analysis. The analytical results and laboratory quality control records are included in this appendix.

#### ANALYTICAL DATA REVIEW

The laboratory maintains an internal QA/QC program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory report dated August 27, 2024.

#### ANALYTICAL DATA REVIEW SUMMARY

We reviewed the laboratory's internal QA/QC in the context of data quality goals. Based on our review, in our opinion, the quality of the analytical data is acceptable for the intended use.



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**Project:** Roy Farms – Environmental Services  
August 2024 Soil and Groundwater Samples

**File:** 0504-213-00

**Date:** September 4, 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 soil and groundwater samples collected as part of the August 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Roy Farms facility located at 401 Walters Road in Moxee, Washington.

## Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines 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.

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 and Trip Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates
- Miscellaneous

## Validated Sample Delivery Groups

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

**TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS**

LABORATORY SDG	SAMPLES VALIDATED
590-26366-1	GEI 073-B1 (10-11.5), GEI 073-B1-080824, GEI 073-B1-080824 (2 MICRON), GEI 073-B2 (13-14), GEI 073-B3 (10-11), GEI 073-B3-080924, GEI 073-B3-080924 (2 MICRON), GEI 073-B4 (13-14), GEI 073-B4-080924, GEI 073-B4-080924 (2 MICRON), GEI 073-B5 (5-6), GEI 073-DUP, GEI 073-B5 (10-11), GEI 073-B5-080924, GEI 073-080924DUP, GEI 073-B5-080924 (2 MICRON), GEI 073-080924DUP (2 MICRON), GEI 073-B6 (8-9), GEI 073-B6-080924, GEI 073-B6-080924 (2 MICRON), GEI 073-COMP, TRIP BLANK-20240809-S, TRIP BLANK-20240809-W

## Chemical Analysis Performed

Eurofins Environment Testing, Inc. (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;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method EPA8260D;
- 1,2-Dibromoethane (EDB) by Method EPA8011; and
- Total and Dissolved Metals by Methods EPA6010D and EPA7471B

## 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, with the following exception:

**SDG 590-26366-1:** The laboratory noted that trip blank samples were received at the laboratory; however, the samples were not listed on the COC. The samples were logged for VOC analyses at the request of GeoEngineers.

## 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 coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

## 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 exceptions:

**SDG 590-26366-1:** (NWTPH-Dx) The percent recovery for surrogate o-Terphenyl was greater than the control limits in Sample GEI 073-B2 (13-14). The positive results for diesel- and lube oil-range hydrocarbons were qualified as estimated (J) in this sample.

(VOCs) The percent recovery for surrogate dibromofluoromethane was less than the control limits in Samples GEI 073-B5-080924 and GEI 073-080924DUP; however, the samples were spiked with three additional surrogates and in each case the percent recovery values were within their respective control limits. No action was required for these outliers.

## METHOD AND TRIP BLANKS

### *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.

### *Trip Blanks*

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blank, with the following exceptions:

**SDG 590-26366-1:** (VOCs) There was a positive result for ethylbenzene, m,p-Xylene, and naphthalene detected in the trip blank, Sample TRIP BLANK-20240809-W. The positive results for ethylbenzene and m,p-Xylene were qualified as non-detected (U) in Sample GEI 073-B3-080924. The positive result for naphthalene was qualified as non-detected (U) in Sample GEI 073-B4-080924. The positive results for ethylbenzene, m,p-Xylene, and naphthalene were qualified as non-detected (U) in Sample GEI 073-B6-080924.

## 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, with the following exception:

**SDG 590-26366-1:** (Total Metals) The laboratory performed an MS/MSD sample set on Sample GEI 073-B1 (10-11.5). The percent recovery for total silver was less than the control limits in the MS digested on 8/23/2024; however, the percent recovery for this target analyte was within the control limits in the corresponding MSD. No action was required for this outlier.

## 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.

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 each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

**SDG 590-26366-1:** (EDB) The RPD for EDB was greater than the control limits in the LCS/LCSD extracted on 8/16/2024. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

(Total Metals) The percent recovery for total silver was greater than the control limits in the LCS/LCSD digested on 8/23/2024. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

## 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 590-26366-1:** (NWTPH-Dx) The laboratory performed a laboratory duplicate sample set on Sample GEI 073-B1 (10-11.5). The RPD for diesel-range hydrocarbons was greater than the control limit in the laboratory duplicate extracted on 8/16/2024. 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 water samples is 30 percent. The RPD control limit for soil samples is 40 percent.

**SDG 590-26366-1:** Three field duplicate sample pairs were submitted with this SDG:

- GEI 073-B5 (5-6)/GEI 073-DUP
- GEI 073-B5-080924/GEI 073-080924DUP
- GEI 073-B5-080924 (2 MICRON)/GEI 073-080924DUP (2 MICRON)

The precision criteria for the target analytes were met for these sample pairs, with the exception of diesel-range hydrocarbons and diesel-range hydrocarbons (SG) in Samples GEI 073-B5-080924 and GEI 073-080924DUP. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

## MISCELLANEOUS

**SDG 590-26366-1:** (NWTPH-Gx) The positive results for gasoline-range hydrocarbons in Samples GEI 073-B3 (10-11), GEI 073-B3-080924, and GEI 073-B4 (13-14) appear to be due to diesel-range hydrocarbons overlap in the sample concentrations. For this reason, the positive results for this target analyte were qualified as estimated (J) in these samples.

(NWTPH-Dx) The positive results for diesel-range hydrocarbons in Samples GEI 073-B2 (13-14), GEI 073-B3 (10-11), and GEI 073-B3-080924 appear to be due to weathered diesel in the sample concentrations. For this reason, the positive results for this target analyte were qualified as estimated (J) in these samples.

The positive result for diesel-range hydrocarbons in Sample GEI 073-B1 (10-11.5) appears to be due to heavily weathered diesel in the sample concentration. For this reason, the positive result for this target analyte was qualified as estimated (J) in this sample.

The positive results for diesel-range hydrocarbons in Samples GEI 073-B5-080924 and GEI 073-080924DUP appear to be due to gasoline-range hydrocarbons overlap in the sample concentrations. For this reason, the positive results for this target analyte were qualified as estimated (J) in these samples.

(NWTPH-Dx/SG) The positive result for diesel-range hydrocarbons in Sample GEI 073-B3-080924 appears to be due to weathered diesel in the sample concentration. For this reason, the positive result for this target analyte was qualified as estimated (J) in this sample.

The positive results for diesel-range hydrocarbons in Samples GEI 073-B5-080924 and GEI 073-080924DUP appear to be due to gasoline-range hydrocarbons overlap in the sample concentrations. For this reason, the positive results for this target analyte were qualified as estimated (J) in these samples.

## 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
GEI 073-B1 (10-11.5)	Diesel-range hydrocarbons	J	Laboratory Duplicate Precision/See Miscellaneous
GEI 073-B2 (13-14)	Diesel-range hydrocarbons	J	Surrogate Recovery/See Miscellaneous
	Lube oil-range hydrocarbons	J	Surrogate Recovery
GEI 073-B3 (10-11)	Gasoline-range hydrocarbons	J	See Miscellaneous
	Diesel-range hydrocarbons	J	See Miscellaneous
GEI 073-B3-080924	Gasoline-range hydrocarbons	J	See Miscellaneous
	Diesel-range hydrocarbons	J	See Miscellaneous
	Diesel-range hydrocarbons (SG)	J	See Miscellaneous
	Ethylbenzene	U	Trip Blank Contamination
	m,p Xylene	U	Trip Blank Contamination
GEI 073-B4 (13-14)	Gasoline-range hydrocarbons	J	See Miscellaneous
GEI 073-B4-080924	Naphthalene	U	Trip Blank Contamination
GEI 073-B5-080924	Diesel-range hydrocarbons	J	Field Duplicate Precision/See Miscellaneous
	Diesel-range hydrocarbons (SG)	J	Field Duplicate Precision/See Miscellaneous
GEI 073-080924DUP	Diesel-range hydrocarbons	J	Field Duplicate Precision/See Miscellaneous
	Diesel-range hydrocarbons (SG)	J	Field Duplicate Precision/See Miscellaneous

GEI 073-B6-080924	Ethylbenzene	U	Trip Blank Contamination
	m,p Xylene	U	Trip Blank Contamination
	Naphthalene	U	Trip Blank Contamination

## 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.

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# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Roy Farms/0504-213-00

## JOB NUMBER

590-26366-1



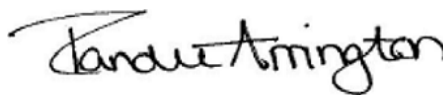
# Eurofins Spokane

## Job Notes

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## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Sample Summary . . . . .	6
Definitions . . . . .	7
Client Sample Results . . . . .	8
QC Sample Results . . . . .	25
Chronicle . . . . .	37
Certification Summary . . . . .	46
Method Summary . . . . .	47
Chain of Custody . . . . .	48
Receipt Checklists . . . . .	51

# Case Narrative

Client: GeoEngineers Inc  
Project: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Job ID: 590-26366-1**

**Eurofins Spokane**

## Job Narrative 590-26366-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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.

### Revision

The report being provided is a revision of the original report sent on 8/27/2024. The report (revision 1) is being revised due to: revised the following client sample IDs due to login error: 590-26366-31, 590-26366-31, 590-26366-32, 590-26366-33, 590-26366-34, 590-26366-35.

### Receipt

The samples were received on 8/12/2024 9:26 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 time was 2.1°C.

### Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

### Gasoline Range Organics

Method NWTPH\_Gx\_MS: For the following samples, detected hydrocarbons in the gasoline range appear to be due to diesel overlap: GEI 073-B3-080924 (590-26366-23).

Method NWTPH\_Gx\_MS: For the following samples, detected hydrocarbons in the gasoline range appear to be due to diesel overlap: GEI 073-B3 (10-11) (590-26366-9) and GEI 073-B4 (13-14) (590-26366-12).

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

### GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside control limits: GEI 073-B5-080924 (590-26366-25) and GEI 073-080924DUP (590-26366-27). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 590-48993 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 590-49022 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

### GC Semi VOA

Method 8011: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 590-49000 and analytical batch 590-49007 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB).

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

### Hydrocarbons

Method NWTPH\_Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel.

Eurofins Spokane

## Case Narrative

Client: GeoEngineers Inc  
Project: Roy Farms/0504-213-00

Job ID: 590-26366-1

### Job ID: 590-26366-1 (Continued)

Eurofins Spokane

GEI 073-B2 (13-14) (590-26366-6), GEI 073-B3 (10-11) (590-26366-9), GEI 073-B3-080924 (590-26366-23) and (590-26366-A-6-C DU)

Method NWTPH\_Dx: Surrogate recovery for the following samples were outside control limits: GEI 073-B2 (13-14) (590-26366-6) and (590-26366-A-6-C DU). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH\_Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel.

GEI 073-B1 (10-11.5) (590-26366-2)

Method NWTPH\_Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap.

GEI 073-B5-080924 (590-26366-25) and GEI 073-080924DUP (590-26366-27)

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

#### Metals

Method 6010D: The laboratory control sample (LCS) for preparation batch 590-49174 and analytical batch 590-49233 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010D: The post digestion spike % recovery for Silver associated with batch 590-49233 was outside of control limits. The associated sample is: (590-26366-A-2-G PDS ^10).

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

#### General Chemistry

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

Eurofins Spokane

# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-26366-2	GEI 073-B1 (10-11.5)	Solid	08/08/24 13:30	08/12/24 09:26
590-26366-6	GEI 073-B2 (13-14)	Solid	08/08/24 17:20	08/12/24 09:26
590-26366-9	GEI 073-B3 (10-11)	Solid	08/09/24 08:20	08/12/24 09:26
590-26366-12	GEI 073-B4 (13-14)	Solid	08/09/24 11:00	08/12/24 09:26
590-26366-14	GEI 073-B5 (5-6)	Solid	08/09/24 14:00	08/12/24 09:26
590-26366-15	GEI 073-B5 (10-11)	Solid	08/09/24 14:30	08/12/24 09:26
590-26366-18	GEI 073-B6 (8-9)	Solid	08/09/24 17:30	08/12/24 09:26
590-26366-20	GEI 073-DUP	Solid	08/09/24 07:30	08/12/24 09:26
590-26366-21	GEI 073-COMP	Solid	08/09/24 00:00	08/12/24 09:26
590-26366-22	GEI 073-B1-080824	Water	08/09/24 16:30	08/12/24 09:26
590-26366-23	GEI 073-B3-080924	Water	08/09/24 10:40	08/12/24 09:26
590-26366-24	GEI 073-B4-080924	Water	08/09/24 12:50	08/12/24 09:26
590-26366-25	GEI 073-B5-080924	Water	08/09/24 17:00	08/12/24 09:26
590-26366-26	GEI 073-B6-080924	Water	08/09/24 19:00	08/12/24 09:26
590-26366-27	GEI 073-080924DUP	Water	08/09/24 07:30	08/12/24 09:26
590-26366-28	Trip Blank	Water	08/09/24 00:00	08/12/24 09:26
590-26366-29	Trip Blank	Solid	08/09/24 00:00	08/12/24 09:26
590-26366-30	GEI 073-B1-080824 (2 micron)	Water	08/09/24 16:30	08/12/24 09:26
590-26366-31	GEI 073-B3-080924 (2 micron)	Water	08/09/24 10:40	08/12/24 09:26
590-26366-32	GEI 073-B4-080924 (2 micron)	Water	08/09/24 12:50	08/12/24 09:26
590-26366-33	GEI 073-B5-080924 (2 micron)	Water	08/09/24 17:50	08/12/24 09:26
590-26366-34	GEI 073-B6-080924 (2 micron)	Water	08/09/24 19:00	08/12/24 09:26
590-26366-35	GEI 073-080924DUP (2 micron)	Water	08/09/24 07:30	08/12/24 09:26

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Qualifiers

### GC/MS VOA

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.
S1-	Surrogate recovery exceeds control limits, low biased.

### GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
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

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B1 (10-11.5)

Lab Sample ID: 590-26366-2

Date Collected: 08/08/24 13:30

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.082	0.018	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Benzene	ND		0.016	0.0082	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Ethylbenzene	ND		0.082	0.013	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
m,p-Xylene	ND		0.33	0.024	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Methyl tert-butyl ether	ND		0.041	0.025	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Naphthalene	ND		0.16	0.023	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
o-Xylene	ND		0.16	0.019	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Toluene	ND		0.082	0.037	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Xylenes, Total	ND		0.49	0.042	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				08/16/24 11:53	08/16/24 22:23	1
4-Bromofluorobenzene (Surr)	101		66 - 129				08/16/24 11:53	08/16/24 22:23	1
Dibromofluoromethane (Surr)	111		80 - 120				08/16/24 11:53	08/16/24 22:23	1
Toluene-d8 (Surr)	100		80 - 120				08/16/24 11:53	08/16/24 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.1	1.5	mg/Kg	☆	08/16/24 11:53	08/16/24 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162				08/16/24 11:53	08/16/24 22:23	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.083	0.036	ug/Kg	☆	08/14/24 07:48	08/14/24 20:28	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	15		10	4.3	mg/Kg	☆	08/16/24 11:14	08/16/24 18:46	1
Residual Range Organics (RRO) (C25-C36)	7.2 J		26	5.1	mg/Kg	☆	08/16/24 11:14	08/16/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150				08/16/24 11:14	08/16/24 18:46	1
n-Triacontane-d62	92		50 - 150				08/16/24 11:14	08/16/24 18:46	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		25	12	mg/Kg	☆	08/23/24 11:16	08/26/24 13:33	10

Client Sample ID: GEI 073-B2 (13-14)

Lab Sample ID: 590-26366-6

Date Collected: 08/08/24 17:20

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.85	0.19	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
Benzene	ND		0.17	0.085	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
Ethylbenzene	6.1		0.85	0.14	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
m,p-Xylene	6.1		3.4	0.24	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B2 (13-14)

Lab Sample ID: 590-26366-6

Date Collected: 08/08/24 17:20

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.43	0.26	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
Naphthalene	6.4		1.7	0.24	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
o-Xylene	0.35	J	1.7	0.20	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
Toluene	ND		0.85	0.38	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10
Xylenes, Total	6.4		5.1	0.44	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		79 - 124	08/16/24 11:53	08/16/24 22:49	10
4-Bromofluorobenzene (Surr)	107		66 - 129	08/16/24 11:53	08/16/24 22:49	10
Dibromofluoromethane (Surr)	99		80 - 120	08/16/24 11:53	08/16/24 22:49	10
Toluene-d8 (Surr)	102		80 - 120	08/16/24 11:53	08/16/24 22:49	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1600		43	15	mg/Kg	☆	08/16/24 11:53	08/16/24 22:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		41.5 - 162	08/16/24 11:53	08/16/24 22:49	10

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.087	0.038	ug/Kg	☆	08/14/24 07:48	08/14/24 21:18	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1500		11	4.6	mg/Kg	☆	08/16/24 11:14	08/16/24 19:29	1
Residual Range Organics (RRO) (C25-C36)	23	J	27	5.5	mg/Kg	☆	08/16/24 11:14	08/16/24 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	174	S1+	50 - 150	08/16/24 11:14	08/16/24 19:29	1
n-Triacontane-d62	91		50 - 150	08/16/24 11:14	08/16/24 19:29	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		23	11	mg/Kg	☆	08/23/24 11:16	08/26/24 13:58	10

Client Sample ID: GEI 073-B3 (10-11)

Lab Sample ID: 590-26366-9

Date Collected: 08/09/24 08:20

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.11	0.025	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Benzene	ND		0.023	0.011	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Ethylbenzene	ND		0.11	0.018	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
m,p-Xylene	ND		0.45	0.032	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Methyl tert-butyl ether	ND		0.056	0.034	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Naphthalene	0.16	J	0.23	0.032	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
o-Xylene	ND		0.23	0.026	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Toluene	ND		0.11	0.051	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B3 (10-11)

Lab Sample ID: 590-26366-9

Date Collected: 08/09/24 08:20

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.68	0.058	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124				08/16/24 11:53	08/16/24 23:14	1
4-Bromofluorobenzene (Surr)	110		66 - 129				08/16/24 11:53	08/16/24 23:14	1
Dibromofluoromethane (Surr)	110		80 - 120				08/16/24 11:53	08/16/24 23:14	1
Toluene-d8 (Surr)	96		80 - 120				08/16/24 11:53	08/16/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	83		5.6	2.0	mg/Kg	☆	08/16/24 11:53	08/16/24 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		41.5 - 162				08/16/24 11:53	08/16/24 23:14	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.087	0.038	ug/Kg	☆	08/14/24 07:48	08/14/24 21:51	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	3200		11	4.5	mg/Kg	☆	08/16/24 11:14	08/16/24 20:12	1
Residual Range Organics (RRO) (C25-C36)	28		27	5.4	mg/Kg	☆	08/16/24 11:14	08/16/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				08/16/24 11:14	08/16/24 20:12	1
n-Triacontane-d62	90		50 - 150				08/16/24 11:14	08/16/24 20:12	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		25	12	mg/Kg	☆	08/23/24 11:16	08/26/24 14:02	10

Client Sample ID: GEI 073-B4 (13-14)

Lab Sample ID: 590-26366-12

Date Collected: 08/09/24 11:00

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.11	0.024	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Benzene	ND		0.022	0.011	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Ethylbenzene	ND		0.11	0.018	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
m,p-Xylene	ND		0.44	0.032	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Methyl tert-butyl ether	ND		0.055	0.033	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Naphthalene	ND		0.22	0.031	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
o-Xylene	ND		0.22	0.025	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Toluene	ND		0.11	0.050	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Xylenes, Total	ND		0.66	0.057	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		79 - 124				08/16/24 11:53	08/16/24 23:39	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B4 (13-14)

Lab Sample ID: 590-26366-12

Date Collected: 08/09/24 11:00

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 91.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		66 - 129	08/16/24 11:53	08/16/24 23:39	1
Dibromofluoromethane (Surr)	118		80 - 120	08/16/24 11:53	08/16/24 23:39	1
Toluene-d8 (Surr)	97		80 - 120	08/16/24 11:53	08/16/24 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	26		5.5	2.0	mg/Kg	☆	08/16/24 11:53	08/16/24 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	08/16/24 11:53	08/16/24 23:39	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.085	0.037	ug/Kg	☆	08/14/24 07:48	08/14/24 22:08	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	5.5	J	10	4.3	mg/Kg	☆	08/16/24 11:14	08/16/24 20:34	1
Residual Range Organics (RRO) (C25-C36)	8.7	J	26	5.1	mg/Kg	☆	08/16/24 11:14	08/16/24 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	08/16/24 11:14	08/16/24 20:34	1
n-Triacontane-d62	92		50 - 150	08/16/24 11:14	08/16/24 20:34	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		25	12	mg/Kg	☆	08/23/24 11:16	08/26/24 14:18	10

Client Sample ID: GEI 073-B5 (5-6)

Lab Sample ID: 590-26366-14

Date Collected: 08/09/24 14:00

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.13	0.027	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Benzene	ND		0.025	0.013	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Ethylbenzene	ND		0.13	0.020	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
m,p-Xylene	ND		0.50	0.036	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Methyl tert-butyl ether	ND		0.063	0.038	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Naphthalene	ND		0.25	0.035	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
o-Xylene	ND		0.25	0.029	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Toluene	ND		0.13	0.057	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Xylenes, Total	ND		0.76	0.065	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		79 - 124	08/16/24 11:53	08/17/24 00:30	1
4-Bromofluorobenzene (Surr)	102		66 - 129	08/16/24 11:53	08/17/24 00:30	1
Dibromofluoromethane (Surr)	109		80 - 120	08/16/24 11:53	08/17/24 00:30	1
Toluene-d8 (Surr)	98		80 - 120	08/16/24 11:53	08/17/24 00:30	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B5 (5-6)

Lab Sample ID: 590-26366-14

Date Collected: 08/09/24 14:00

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.3	2.3	mg/Kg	☆	08/16/24 11:53	08/17/24 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		41.5 - 162				08/16/24 11:53	08/17/24 00:30	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.086	0.038	ug/Kg	☆	08/14/24 07:48	08/14/24 22:24	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	6.6	J	11	4.5	mg/Kg	☆	08/16/24 11:14	08/16/24 20:55	1
(C10-C25)									
Residual Range Organics (RRO)	35		27	5.4	mg/Kg	☆	08/16/24 11:14	08/16/24 20:55	1
(C25-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150				08/16/24 11:14	08/16/24 20:55	1
n-Triacontane-d62	94		50 - 150				08/16/24 11:14	08/16/24 20:55	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		23	11	mg/Kg	☆	08/23/24 11:16	08/26/24 14:22	10

Client Sample ID: GEI 073-B5 (10-11)

Lab Sample ID: 590-26366-15

Date Collected: 08/09/24 14:30

Matrix: Solid

Date Received: 08/12/24 09:26

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.11	0.024	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Benzene	ND		0.022	0.011	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Ethylbenzene	ND		0.11	0.018	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
m,p-Xylene	ND		0.44	0.032	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Methyl tert-butyl ether	ND		0.056	0.033	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Naphthalene	ND		0.22	0.031	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
o-Xylene	ND		0.22	0.026	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Toluene	ND		0.11	0.050	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Xylenes, Total	ND		0.67	0.057	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		79 - 124				08/16/24 11:53	08/17/24 00:55	1
4-Bromofluorobenzene (Surr)	105		66 - 129				08/16/24 11:53	08/17/24 00:55	1
Dibromofluoromethane (Surr)	107		80 - 120				08/16/24 11:53	08/17/24 00:55	1
Toluene-d8 (Surr)	98		80 - 120				08/16/24 11:53	08/17/24 00:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.6	2.0	mg/Kg	☆	08/16/24 11:53	08/17/24 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162				08/16/24 11:53	08/17/24 00:55	1

Eurofins Spokane

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B5 (10-11)**

**Lab Sample ID: 590-26366-15**

**Date Collected: 08/09/24 14:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 89.6**

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.084	0.037	ug/Kg	☆	08/14/24 07:48	08/14/24 22:41	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	6.7	J	11	4.5	mg/Kg	☆	08/16/24 11:14	08/16/24 21:17	1
Residual Range Organics (RRO) (C25-C36)	11	J	27	5.3	mg/Kg	☆	08/16/24 11:14	08/16/24 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	08/16/24 11:14	08/16/24 21:17	1
n-Triacontane-d62	95		50 - 150	08/16/24 11:14	08/16/24 21:17	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		23	11	mg/Kg	☆	08/23/24 11:16	08/26/24 14:26	10

**Client Sample ID: GEI 073-B6 (8-9)**

**Lab Sample ID: 590-26366-18**

**Date Collected: 08/09/24 17:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 95.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.076	0.017	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Benzene	ND		0.015	0.0076	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Ethylbenzene	ND		0.076	0.012	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
m,p-Xylene	ND		0.30	0.022	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Methyl tert-butyl ether	ND		0.038	0.023	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Naphthalene	ND		0.15	0.021	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
o-Xylene	ND		0.15	0.017	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Toluene	ND		0.076	0.034	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1
Xylenes, Total	ND		0.45	0.039	mg/Kg	☆	08/16/24 11:53	08/19/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		79 - 124	08/16/24 11:53	08/19/24 13:22	1
4-Bromofluorobenzene (Surr)	110		66 - 129	08/16/24 11:53	08/19/24 13:22	1
Dibromofluoromethane (Surr)	113		80 - 120	08/16/24 11:53	08/19/24 13:22	1
Toluene-d8 (Surr)	97		80 - 120	08/16/24 11:53	08/19/24 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.8	1.4	mg/Kg	☆	08/16/24 11:53	08/17/24 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162	08/16/24 11:53	08/17/24 01:21	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.080	0.035	ug/Kg	☆	08/14/24 07:48	08/14/24 22:58	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B6 (8-9)**

**Lab Sample ID: 590-26366-18**

**Date Collected: 08/09/24 17:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 95.0**

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	5.2	J	10	4.2	mg/Kg	☆	08/16/24 11:14	08/16/24 22:00	1
Residual Range Organics (RRO) (C25-C36)	6.6	J	25	5.0	mg/Kg	☆	08/16/24 11:14	08/16/24 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150				08/16/24 11:14	08/16/24 22:00	1
n-Triacontane-d62	99		50 - 150				08/16/24 11:14	08/16/24 22:00	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		23	11	mg/Kg	☆	08/23/24 11:16	08/26/24 14:31	10

**Client Sample ID: GEI 073-DUP**

**Lab Sample ID: 590-26366-20**

**Date Collected: 08/09/24 07:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 87.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.086	0.019	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Benzene	ND		0.017	0.0086	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Ethylbenzene	ND		0.086	0.014	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
m,p-Xylene	ND		0.34	0.025	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Methyl tert-butyl ether	ND		0.043	0.026	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Naphthalene	ND		0.17	0.024	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
o-Xylene	ND		0.17	0.020	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Toluene	ND		0.086	0.039	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Xylenes, Total	ND		0.52	0.044	mg/Kg	☆	08/16/24 11:53	08/19/24 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		79 - 124				08/16/24 11:53	08/19/24 13:47	1
4-Bromofluorobenzene (Surr)	108		66 - 129				08/16/24 11:53	08/19/24 13:47	1
Dibromofluoromethane (Surr)	104		80 - 120				08/16/24 11:53	08/19/24 13:47	1
Toluene-d8 (Surr)	98		80 - 120				08/16/24 11:53	08/19/24 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.3	1.5	mg/Kg	☆	08/16/24 11:53	08/17/24 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162				08/16/24 11:53	08/17/24 01:46	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.087	0.038	ug/Kg	☆	08/14/24 07:48	08/14/24 23:14	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	8.2	J	11	4.6	mg/Kg	☆	08/16/24 11:14	08/16/24 22:22	1
Residual Range Organics (RRO) (C25-C36)	49		27	5.5	mg/Kg	☆	08/16/24 11:14	08/16/24 22:22	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-DUP**

**Lab Sample ID: 590-26366-20**

**Date Collected: 08/09/24 07:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 87.8**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	08/16/24 11:14	08/16/24 22:22	1
n-Triacontane-d62	106		50 - 150	08/16/24 11:14	08/16/24 22:22	1

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		24	12	mg/Kg	☆	08/23/24 11:16	08/26/24 14:35	10

**Client Sample ID: GEI 073-COMP**

**Lab Sample ID: 590-26366-21**

**Date Collected: 08/09/24 00:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 84.0**

## Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		9.9	3.9	mg/Kg	☆	08/23/24 11:16	08/26/24 14:39	10
Barium	89		9.9	2.7	mg/Kg	☆	08/23/24 11:16	08/26/24 18:10	10
Cadmium	ND		7.9	0.47	mg/Kg	☆	08/23/24 11:16	08/26/24 14:39	10
Chromium	7.6 J		9.9	1.4	mg/Kg	☆	08/23/24 11:16	08/26/24 18:10	10
Lead	ND		24	12	mg/Kg	☆	08/23/24 11:16	08/26/24 14:39	10
Selenium	ND		40	24	mg/Kg	☆	08/23/24 11:16	08/26/24 14:39	10
Silver	ND	+	9.9	2.3	mg/Kg	☆	08/23/24 11:16	08/26/24 18:10	10

## Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	38 J		39	9.6	ug/Kg	☆	08/13/24 11:41	08/14/24 15:56	1

**Client Sample ID: GEI 073-B1-080824**

**Lab Sample ID: 590-26366-22**

**Date Collected: 08/09/24 16:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 17:37	1
Benzene	0.14 J		0.40	0.093	ug/L			08/16/24 17:37	1
Ethylbenzene	ND		1.0	0.20	ug/L			08/16/24 17:37	1
m,p-Xylene	ND		2.0	0.28	ug/L			08/16/24 17:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 17:37	1
o-Xylene	ND		1.0	0.16	ug/L			08/16/24 17:37	1
Naphthalene	ND		2.0	0.63	ug/L			08/16/24 17:37	1
Toluene	ND		1.0	0.31	ug/L			08/16/24 17:37	1
Xylenes, Total	ND		3.0	0.44	ug/L			08/16/24 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		08/16/24 17:37	1
4-Bromofluorobenzene (Surr)	108		76 - 120		08/16/24 17:37	1
Dibromofluoromethane (Surr)	115		80 - 123		08/16/24 17:37	1
Toluene-d8 (Surr)	101		80 - 120		08/16/24 17:37	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			08/16/24 17:37	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B1-080824

Lab Sample ID: 590-26366-22

Date Collected: 08/09/24 16:30

Matrix: Water

Date Received: 08/12/24 09:26

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141					08/16/24 17:37	1
Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 00:04	1
Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	ND		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 04:49	1
(C10-C25)									
Residual Range Organics (RRO)	ND		0.39	0.12	mg/L		08/15/24 14:22	08/17/24 04:49	1
(C25-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				08/15/24 14:22	08/17/24 04:49	1
n-Triacontane-d62	86		50 - 150				08/15/24 14:22	08/17/24 04:49	1
Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	ND		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 08:24	1
(C10-C25)									
Residual Range Organics (RRO)	ND		0.39	0.12	mg/L		08/15/24 14:22	08/17/24 08:24	1
(C25-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				08/15/24 14:22	08/17/24 08:24	1
n-Triacontane-d62	91		50 - 150				08/15/24 14:22	08/17/24 08:24	1
Method: SW846 6010D - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:13	1
Method: SW846 6010D - Metals (ICP) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:04	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:02	1

Client Sample ID: GEI 073-B3-080924

Lab Sample ID: 590-26366-23

Date Collected: 08/09/24 10:40

Matrix: Water

Date Received: 08/12/24 09:26

<b>Method: SW846 8260D - Volatile Organic Compounds by GC/MS</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 18:19	1
Benzene	0.26	J	0.40	0.093	ug/L			08/16/24 18:19	1
Ethylbenzene	0.49	J	1.0	0.20	ug/L			08/16/24 18:19	1
m,p-Xylene	0.43	J	2.0	0.28	ug/L			08/16/24 18:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 18:19	1
o-Xylene	0.17	J	1.0	0.16	ug/L			08/16/24 18:19	1
Naphthalene	18		2.0	0.63	ug/L			08/16/24 18:19	1
Toluene	0.42	J	1.0	0.31	ug/L			08/16/24 18:19	1
Xylenes, Total	0.60	J	3.0	0.44	ug/L			08/16/24 18:19	1

Eurofins Spokane

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B3-080924

Lab Sample ID: 590-26366-23

Date Collected: 08/09/24 10:40

Matrix: Water

Date Received: 08/12/24 09:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		08/16/24 18:19	1
4-Bromofluorobenzene (Surr)	95		76 - 120		08/16/24 18:19	1
Dibromofluoromethane (Surr)	115		80 - 123		08/16/24 18:19	1
Toluene-d8 (Surr)	96		80 - 120		08/16/24 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	390		150	54	ug/L			08/16/24 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		08/16/24 18:19	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 00:21	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	9.9		0.23	0.10	mg/L		08/15/24 14:22	08/17/24 05:11	1
Residual Range Organics (RRO) (C25-C36)	0.24	J	0.38	0.11	mg/L		08/15/24 14:22	08/17/24 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	109		50 - 150	08/15/24 14:22	08/17/24 05:11	1
n-Triacontane-d62	90		50 - 150	08/15/24 14:22	08/17/24 05:11	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	11		0.23	0.10	mg/L		08/15/24 14:22	08/17/24 08:46	1
Residual Range Organics (RRO) (C25-C36)	0.23	J	0.38	0.11	mg/L		08/15/24 14:22	08/17/24 08:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	117		50 - 150	08/15/24 14:22	08/17/24 08:46	1
n-Triacontane-d62	97		50 - 150	08/15/24 14:22	08/17/24 08:46	1

## Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:17	1

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:28	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:06	1

Client Sample ID: GEI 073-B4-080924

Lab Sample ID: 590-26366-24

Date Collected: 08/09/24 12:50

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 18:40	1

Eurofins Spokane



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B4-080924

Lab Sample ID: 590-26366-24

Date Collected: 08/09/24 12:50

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40	0.093	ug/L			08/16/24 18:40	1
Ethylbenzene	ND		1.0	0.20	ug/L			08/16/24 18:40	1
m,p-Xylene	ND		2.0	0.28	ug/L			08/16/24 18:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 18:40	1
o-Xylene	ND		1.0	0.16	ug/L			08/16/24 18:40	1
Naphthalene	0.72	J	2.0	0.63	ug/L			08/16/24 18:40	1
Toluene	ND		1.0	0.31	ug/L			08/16/24 18:40	1
Xylenes, Total	ND		3.0	0.44	ug/L			08/16/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		80 - 120					08/16/24 18:40	1
4-Bromofluorobenzene (Surr)	99		76 - 120					08/16/24 18:40	1
Dibromofluoromethane (Surr)	123		80 - 123					08/16/24 18:40	1
Toluene-d8 (Surr)	94		80 - 120					08/16/24 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	92	J	150	54	ug/L			08/16/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					08/16/24 18:40	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 00:38	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.13	J	0.23	0.11	mg/L		08/15/24 14:22	08/17/24 05:32	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.11	mg/L		08/15/24 14:22	08/17/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150				08/15/24 14:22	08/17/24 05:32	1
n-Triacontane-d62	94		50 - 150				08/15/24 14:22	08/17/24 05:32	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 09:07	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.11	mg/L		08/15/24 14:22	08/17/24 09:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				08/15/24 14:22	08/17/24 09:07	1
n-Triacontane-d62	96		50 - 150				08/15/24 14:22	08/17/24 09:07	1

## Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:21	1

Eurofins Spokane

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B4-080924

Lab Sample ID: 590-26366-24

Date Collected: 08/09/24 12:50

Matrix: Water

Date Received: 08/12/24 09:26

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:32	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:10	1

Client Sample ID: GEI 073-B5-080924

Lab Sample ID: 590-26366-25

Date Collected: 08/09/24 17:00

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.60	J	1.0	0.31	ug/L			08/16/24 19:01	1
Benzene	0.57		0.40	0.093	ug/L			08/16/24 19:01	1
Ethylbenzene	110		10	2.0	ug/L			08/19/24 18:07	10
m,p-Xylene	150		20	2.8	ug/L			08/19/24 18:07	10
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 19:01	1
o-Xylene	3.8		1.0	0.16	ug/L			08/16/24 19:01	1
Naphthalene	83		2.0	0.63	ug/L			08/16/24 19:01	1
Toluene	1.0		1.0	0.31	ug/L			08/16/24 19:01	1
Xylenes, Total	150		30	4.4	ug/L			08/19/24 18:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		08/16/24 19:01	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		08/19/24 18:07	10
4-Bromofluorobenzene (Surr)	98		76 - 120		08/16/24 19:01	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/19/24 18:07	10
Dibromofluoromethane (Surr)	72	S1-	80 - 123		08/16/24 19:01	1
Dibromofluoromethane (Surr)	90		80 - 123		08/19/24 18:07	10
Toluene-d8 (Surr)	103		80 - 120		08/16/24 19:01	1
Toluene-d8 (Surr)	96		80 - 120		08/19/24 18:07	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	9200		1500	540	ug/L			08/19/24 18:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		08/19/24 18:07	10

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 00:54	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	3.0		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 05:54	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.12	mg/L		08/15/24 14:22	08/17/24 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	08/15/24 14:22	08/17/24 05:54	1
n-Triacontane-d62	82		50 - 150	08/15/24 14:22	08/17/24 05:54	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B5-080924

Lab Sample ID: 590-26366-25

Date Collected: 08/09/24 17:00

Matrix: Water

Date Received: 08/12/24 09:26

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2.8		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 09:29	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.12	mg/L		08/15/24 14:22	08/17/24 09:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				08/15/24 14:22	08/17/24 09:29	1
n-Triacontane-d62	85		50 - 150				08/15/24 14:22	08/17/24 09:29	1

## Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:38	1

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:49	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:14	1

Client Sample ID: GEI 073-B6-080924

Lab Sample ID: 590-26366-26

Date Collected: 08/09/24 19:00

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 19:22	1
Benzene	ND		0.40	0.093	ug/L			08/16/24 19:22	1
Ethylbenzene	0.33	J	1.0	0.20	ug/L			08/16/24 19:22	1
m,p-Xylene	0.48	J	2.0	0.28	ug/L			08/16/24 19:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 19:22	1
o-Xylene	ND		1.0	0.16	ug/L			08/16/24 19:22	1
Naphthalene	1.3	J	2.0	0.63	ug/L			08/16/24 19:22	1
Toluene	ND		1.0	0.31	ug/L			08/16/24 19:22	1
Xylenes, Total	0.48	J	3.0	0.44	ug/L			08/16/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120					08/16/24 19:22	1
4-Bromofluorobenzene (Surr)	111		76 - 120					08/16/24 19:22	1
Dibromofluoromethane (Surr)	105		80 - 123					08/16/24 19:22	1
Toluene-d8 (Surr)	96		80 - 120					08/16/24 19:22	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			08/16/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		68.7 - 141					08/16/24 19:22	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 01:11	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-B6-080924

Lab Sample ID: 590-26366-26

Date Collected: 08/09/24 19:00

Matrix: Water

Date Received: 08/12/24 09:26

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.23	0.10	mg/L		08/15/24 14:22	08/17/24 06:15	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.11	mg/L		08/15/24 14:22	08/17/24 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				08/15/24 14:22	08/17/24 06:15	1
n-Triacontane-d62	77		50 - 150				08/15/24 14:22	08/17/24 06:15	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.23	0.10	mg/L		08/15/24 14:22	08/17/24 09:51	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38	0.11	mg/L		08/15/24 14:22	08/17/24 09:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				08/15/24 14:22	08/17/24 09:51	1
n-Triacontane-d62	81		50 - 150				08/15/24 14:22	08/17/24 09:51	1

## Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:42	1

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:53	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:18	1

Client Sample ID: GEI 073-080924DUP

Lab Sample ID: 590-26366-27

Date Collected: 08/09/24 07:30

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 19:43	1
Benzene	0.54		0.40	0.093	ug/L			08/16/24 19:43	1
Ethylbenzene	110		10	2.0	ug/L			08/19/24 18:28	10
m,p-Xylene	130		20	2.8	ug/L			08/19/24 18:28	10
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 19:43	1
o-Xylene	3.6		1.0	0.16	ug/L			08/16/24 19:43	1
Naphthalene	78		2.0	0.63	ug/L			08/16/24 19:43	1
Toluene	1.0		1.0	0.31	ug/L			08/16/24 19:43	1
Xylenes, Total	140		30	4.4	ug/L			08/19/24 18:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 120					08/16/24 19:43	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 120					08/19/24 18:28	10
4-Bromofluorobenzene (Surr)	96		76 - 120					08/16/24 19:43	1
4-Bromofluorobenzene (Surr)	102		76 - 120					08/19/24 18:28	10
Dibromofluoromethane (Surr)	73	S1-	80 - 123					08/16/24 19:43	1
Dibromofluoromethane (Surr)	87		80 - 123					08/19/24 18:28	10

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

Client Sample ID: GEI 073-080924DUP

Lab Sample ID: 590-26366-27

Date Collected: 08/09/24 07:30

Matrix: Water

Date Received: 08/12/24 09:26

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		08/16/24 19:43	1
Toluene-d8 (Surr)	93		80 - 120		08/19/24 18:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	8100		1500	540	ug/L			08/19/24 18:28	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		08/19/24 18:28	10

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*1	0.010	0.0025	ug/L		08/16/24 15:37	08/17/24 01:44	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2.0		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 06:37	1
Residual Range Organics (RRO) (C25-C36)	ND		0.39	0.12	mg/L		08/15/24 14:22	08/17/24 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	08/15/24 14:22	08/17/24 06:37	1
n-Triacontane-d62	79		50 - 150	08/15/24 14:22	08/17/24 06:37	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1.7		0.23	0.11	mg/L		08/15/24 14:22	08/17/24 10:12	1
Residual Range Organics (RRO) (C25-C36)	ND		0.39	0.12	mg/L		08/15/24 14:22	08/17/24 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	08/15/24 14:22	08/17/24 10:12	1
n-Triacontane-d62	73		50 - 150	08/15/24 14:22	08/17/24 10:12	1

## Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:46	1

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 17:57	1
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:23	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-26366-28

Date Collected: 08/09/24 00:00

Matrix: Water

Date Received: 08/12/24 09:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 20:04	1
Benzene	ND		0.40	0.093	ug/L			08/16/24 20:04	1

Eurofins Spokane

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: Trip Blank**

**Date Collected: 08/09/24 00:00**

**Date Received: 08/12/24 09:26**

**Lab Sample ID: 590-26366-28**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.28	J	1.0	0.20	ug/L			08/16/24 20:04	1
m,p-Xylene	0.40	J	2.0	0.28	ug/L			08/16/24 20:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 20:04	1
o-Xylene	ND		1.0	0.16	ug/L			08/16/24 20:04	1
Naphthalene	1.2	J	2.0	0.63	ug/L			08/16/24 20:04	1
Toluene	ND		1.0	0.31	ug/L			08/16/24 20:04	1
Xylenes, Total	ND		3.0	0.44	ug/L			08/16/24 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		08/16/24 20:04	1
4-Bromofluorobenzene (Surr)	113		76 - 120		08/16/24 20:04	1
Dibromofluoromethane (Surr)	108		80 - 123		08/16/24 20:04	1
Toluene-d8 (Surr)	98		80 - 120		08/16/24 20:04	1

**Client Sample ID: Trip Blank**

**Date Collected: 08/09/24 00:00**

**Date Received: 08/12/24 09:26**

**Lab Sample ID: 590-26366-29**

**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.10	0.022	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Benzene	ND		0.020	0.010	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Methyl tert-butyl ether	ND		0.050	0.030	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Naphthalene	ND		0.20	0.028	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
o-Xylene	ND		0.20	0.023	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Toluene	ND		0.10	0.045	mg/Kg		08/16/24 11:53	08/19/24 14:12	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		08/16/24 11:53	08/19/24 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		79 - 124	08/16/24 11:53	08/19/24 14:12	1
4-Bromofluorobenzene (Surr)	111		66 - 129	08/16/24 11:53	08/19/24 14:12	1
Dibromofluoromethane (Surr)	107		80 - 120	08/16/24 11:53	08/19/24 14:12	1
Toluene-d8 (Surr)	98		80 - 120	08/16/24 11:53	08/19/24 14:12	1

**Client Sample ID: GEI 073-B1-080824 (2 micron)**

**Date Collected: 08/09/24 16:30**

**Date Received: 08/12/24 09:26**

**Lab Sample ID: 590-26366-30**

**Matrix: Water**

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:27	1

**Client Sample ID: GEI 073-B3-080924 (2 micron)**

**Date Collected: 08/09/24 10:40**

**Date Received: 08/12/24 09:26**

**Lab Sample ID: 590-26366-31**

**Matrix: Water**

## Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:43	1

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B4-080924 (2 micron)**

**Lab Sample ID: 590-26366-32**

Date Collected: 08/09/24 12:50

Matrix: Water

Date Received: 08/12/24 09:26

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:48	1

**Client Sample ID: GEI 073-B5-080924 (2 micron)**

**Lab Sample ID: 590-26366-33**

Date Collected: 08/09/24 17:50

Matrix: Water

Date Received: 08/12/24 09:26

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:52	1

**Client Sample ID: GEI 073-B6-080924 (2 micron)**

**Lab Sample ID: 590-26366-34**

Date Collected: 08/09/24 19:00

Matrix: Water

Date Received: 08/12/24 09:26

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 18:56	1

**Client Sample ID: GEI 073-080924DUP (2 micron)**

**Lab Sample ID: 590-26366-35**

Date Collected: 08/09/24 07:30

Matrix: Water

Date Received: 08/12/24 09:26

**Method: SW846 6010D - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 19:00	1



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: MB 590-48992/1-A  
Matrix: Solid  
Analysis Batch: 48993

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.10	0.022	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Benzene	ND		0.020	0.010	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Ethylbenzene	ND		0.10	0.016	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
m,p-Xylene	ND		0.40	0.029	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Methyl tert-butyl ether	ND		0.050	0.030	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Naphthalene	ND		0.20	0.028	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
o-Xylene	ND		0.20	0.023	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Toluene	ND		0.10	0.045	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Xylenes, Total	ND		0.60	0.052	mg/Kg		08/16/24 11:53	08/16/24 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		79 - 124	08/16/24 11:53	08/16/24 15:58	1
4-Bromofluorobenzene (Surr)	105		66 - 129	08/16/24 11:53	08/16/24 15:58	1
Dibromofluoromethane (Surr)	109		80 - 120	08/16/24 11:53	08/16/24 15:58	1
Toluene-d8 (Surr)	100		80 - 120	08/16/24 11:53	08/16/24 15:58	1

Lab Sample ID: LCS 590-48992/2-A  
Matrix: Solid  
Analysis Batch: 48993

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 48992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dichloroethane	0.500	0.480		mg/Kg		96	77 - 126
Benzene	0.500	0.510		mg/Kg		102	80 - 128
Ethylbenzene	0.500	0.535		mg/Kg		107	80 - 127
m,p-Xylene	0.500	0.544		mg/Kg		109	80 - 131
Methyl tert-butyl ether	0.500	0.405		mg/Kg		81	69 - 132
Naphthalene	0.500	0.420		mg/Kg		84	57 - 131
o-Xylene	0.500	0.532		mg/Kg		106	78 - 128
Toluene	0.500	0.519		mg/Kg		104	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		79 - 124
4-Bromofluorobenzene (Surr)	99		66 - 129
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 590-49026/8  
Matrix: Water  
Analysis Batch: 49026

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/16/24 14:26	1
Benzene	ND		0.40	0.093	ug/L			08/16/24 14:26	1
Ethylbenzene	ND		1.0	0.20	ug/L			08/16/24 14:26	1
m,p-Xylene	ND		2.0	0.28	ug/L			08/16/24 14:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/16/24 14:26	1
Naphthalene	ND		2.0	0.63	ug/L			08/16/24 14:26	1
o-Xylene	ND		1.0	0.16	ug/L			08/16/24 14:26	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: MB 590-49026/8

Matrix: Water

Analysis Batch: 49026

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.31	ug/L			08/16/24 14:26	1
Xylenes, Total	ND		3.0	0.44	ug/L			08/16/24 14:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120					08/16/24 14:26	1
4-Bromofluorobenzene (Surr)	106		76 - 120					08/16/24 14:26	1
Dibromofluoromethane (Surr)	107		80 - 123					08/16/24 14:26	1
Toluene-d8 (Surr)	101		80 - 120					08/16/24 14:26	1

Lab Sample ID: LCS 590-49026/6

Matrix: Water

Analysis Batch: 49026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
Benzene	10.0	10.3		ug/L		103	80 - 120
Ethylbenzene	10.0	10.1		ug/L		101	80 - 122
m,p-Xylene	10.0	10.2		ug/L		102	80 - 125
Methyl tert-butyl ether	10.0	11.6		ug/L		116	68 - 134
Naphthalene	10.0	10.2		ug/L		102	61 - 140
o-Xylene	10.0	10.7		ug/L		107	80 - 130
Toluene	10.0	10.0		ug/L		100	80 - 129
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	103		80 - 120				
4-Bromofluorobenzene (Surr)	98		76 - 120				
Dibromofluoromethane (Surr)	99		80 - 123				
Toluene-d8 (Surr)	97		80 - 120				

Lab Sample ID: LCSD 590-49026/1005

Matrix: Water

Analysis Batch: 49026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	10.0	10.9		ug/L		109	80 - 120	1	14
Benzene	10.0	10.8		ug/L		108	80 - 120	4	15
Ethylbenzene	10.0	10.3		ug/L		103	80 - 122	2	35
m,p-Xylene	10.0	10.2		ug/L		102	80 - 125	1	35
Methyl tert-butyl ether	10.0	11.4		ug/L		114	68 - 134	2	18
Naphthalene	10.0	9.77		ug/L		98	61 - 140	4	25
o-Xylene	10.0	10.8		ug/L		108	80 - 130	1	35
Toluene	10.0	10.2		ug/L		102	80 - 129	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	103		80 - 120						
4-Bromofluorobenzene (Surr)	99		76 - 120						
Dibromofluoromethane (Surr)	101		80 - 123						
Toluene-d8 (Surr)	96		80 - 120						

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: MB 590-49050/10

Matrix: Water

Analysis Batch: 49050

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.31	ug/L			08/19/24 17:25	1
Benzene	ND		0.40	0.093	ug/L			08/19/24 17:25	1
Ethylbenzene	ND		1.0	0.20	ug/L			08/19/24 17:25	1
m,p-Xylene	ND		2.0	0.28	ug/L			08/19/24 17:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/19/24 17:25	1
Naphthalene	ND		2.0	0.63	ug/L			08/19/24 17:25	1
o-Xylene	ND		1.0	0.16	ug/L			08/19/24 17:25	1
Toluene	ND		1.0	0.31	ug/L			08/19/24 17:25	1
Xylenes, Total	ND		3.0	0.44	ug/L			08/19/24 17:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		08/19/24 17:25	1
4-Bromofluorobenzene (Surr)	102		76 - 120		08/19/24 17:25	1
Dibromofluoromethane (Surr)	115		80 - 123		08/19/24 17:25	1
Toluene-d8 (Surr)	101		80 - 120		08/19/24 17:25	1

Lab Sample ID: LCS 590-49050/1005

Matrix: Water

Analysis Batch: 49050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	10.0	11.2		ug/L		112	80 - 120
Benzene	10.0	10.5		ug/L		105	80 - 120
Ethylbenzene	10.0	9.81		ug/L		98	80 - 122
m,p-Xylene	10.0	9.56		ug/L		96	80 - 125
Methyl tert-butyl ether	10.0	11.1		ug/L		111	68 - 134
Naphthalene	10.0	9.32		ug/L		93	61 - 140
o-Xylene	10.0	10.0		ug/L		100	80 - 130
Toluene	10.0	9.75		ug/L		97	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	106		80 - 123
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 590-49050/6

Matrix: Water

Analysis Batch: 49050

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	10.0	11.3		ug/L		113	80 - 120	1	14
Benzene	10.0	10.6		ug/L		106	80 - 120	1	15
Ethylbenzene	10.0	9.41		ug/L		94	80 - 122	4	35
m,p-Xylene	10.0	8.47		ug/L		85	80 - 125	12	35
Methyl tert-butyl ether	10.0	10.5		ug/L		105	68 - 134	5	18
Naphthalene	10.0	11.6		ug/L		116	61 - 140	22	25
o-Xylene	10.0	8.53		ug/L		85	80 - 130	16	35

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: LCSD 590-49050/6  
Matrix: Water  
Analysis Batch: 49050

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	10.0	10.2		ug/L		102	80 - 129	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	111		80 - 120						
4-Bromofluorobenzene (Surr)	93		76 - 120						
Dibromofluoromethane (Surr)	109		80 - 123						
Toluene-d8 (Surr)	97		80 - 120						

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

Lab Sample ID: MB 590-48992/1-A  
Matrix: Solid  
Analysis Batch: 48994

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	1.8	mg/Kg		08/16/24 11:53	08/16/24 15:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		41.5 - 162						
							Prepared	Analyzed	Dil Fac
							08/16/24 11:53	08/16/24 15:58	1

Lab Sample ID: LCS 590-48992/3-A  
Matrix: Solid  
Analysis Batch: 48994

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 48992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline			50.0	43.5		mg/Kg		87	74.4 - 124		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
4-Bromofluorobenzene (Surr)		103		41.5 - 162							

Lab Sample ID: MB 590-49027/8  
Matrix: Water  
Analysis Batch: 49027

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			08/16/24 14:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		68.7 - 141						
							Prepared	Analyzed	Dil Fac
								08/16/24 14:26	1

Lab Sample ID: LCS 590-49027/1007  
Matrix: Water  
Analysis Batch: 49027

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	1050		ug/L		105	80 - 120		

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: LCS 590-49027/1007

Matrix: Water

Analysis Batch: 49027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		68.7 - 141

Lab Sample ID: LCSD 590-49027/1018

Matrix: Water

Analysis Batch: 49027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	1070		ug/L		107	80 - 120	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		68.7 - 141

Lab Sample ID: MB 590-49051/10

Matrix: Water

Analysis Batch: 49051

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	54	ug/L			08/19/24 17:25	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		68.7 - 141					08/19/24 17:25	1

Lab Sample ID: LCS 590-49051/1009

Matrix: Water

Analysis Batch: 49051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	1070		ug/L		107	80 - 120		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		68.7 - 141

Lab Sample ID: LCSD 590-49051/1031

Matrix: Water

Analysis Batch: 49051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	1050		ug/L		105	80 - 120	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		68.7 - 141

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 590-48924/2-A  
Matrix: Solid  
Analysis Batch: 48948

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.080	0.035	ug/Kg		08/14/24 07:48	08/14/24 18:48	1

Lab Sample ID: LCS 590-48924/3-A  
Matrix: Solid  
Analysis Batch: 48948

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 48924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.04		ug/Kg		104	60 - 140

Lab Sample ID: 590-26366-2 MS  
Matrix: Solid  
Analysis Batch: 48948

Client Sample ID: GEI 073-B1 (10-11.5)  
Prep Type: Total/NA  
Prep Batch: 48924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		1.04	0.827		ug/Kg	☼	79	60 - 140

Lab Sample ID: 590-26366-2 MSD  
Matrix: Solid  
Analysis Batch: 48948

Client Sample ID: GEI 073-B1 (10-11.5)  
Prep Type: Total/NA  
Prep Batch: 48924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2-Dibromoethane (EDB)	ND		1.03	0.884		ug/Kg	☼	86	60 - 140	7	20

Lab Sample ID: MB 590-49000/1-A  
Matrix: Water  
Analysis Batch: 49007

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 49000

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0025	ug/L		08/16/24 15:37	08/16/24 22:41	1

Lab Sample ID: LCS 590-49000/2-A  
Matrix: Water  
Analysis Batch: 49007

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 49000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.125	0.0958		ug/L		77	60 - 140

Lab Sample ID: LCSD 590-49000/3-A  
Matrix: Water  
Analysis Batch: 49007

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 49000

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2-Dibromoethane (EDB)	0.125	0.0747	*1	ug/L		60	60 - 140	25	20

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-48965/1-B

Matrix: Water

Analysis Batch: 49003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.24	0.11	mg/L		08/15/24 14:22	08/17/24 07:20	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40	0.12	mg/L		08/15/24 14:22	08/17/24 07:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150				08/15/24 14:22	08/17/24 07:20	1
n-Triacontane-d62	86		50 - 150				08/15/24 14:22	08/17/24 07:20	1

Lab Sample ID: LCS 590-48965/2-B

Matrix: Water

Analysis Batch: 49003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.52		mg/L		95	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.70		mg/L		106	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	95		50 - 150				
n-Triacontane-d62	102		50 - 150				

Lab Sample ID: LCSD 590-48965/3-B

Matrix: Water

Analysis Batch: 49003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.29		mg/L		81	50 - 150	16	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.55		mg/L		97	50 - 150	9	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	86		50 - 150						
n-Triacontane-d62	93		50 - 150						

Lab Sample ID: MB 590-48991/1-A

Matrix: Solid

Analysis Batch: 49003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10	4.2	mg/Kg		08/16/24 11:14	08/16/24 18:03	1
Residual Range Organics (RRO) (C25-C36)	ND		25	5.0	mg/Kg		08/16/24 11:14	08/16/24 18:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150				08/16/24 11:14	08/16/24 18:03	1

Eurofins Spokane

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 590-48991/1-A

Matrix: Solid

Analysis Batch: 49003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48991

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	91		50 - 150	08/16/24 11:14	08/16/24 18:03	1

Lab Sample ID: LCS 590-48991/2-A

Matrix: Solid

Analysis Batch: 49003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48991

		Spike	LCS	LCS					%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (DRO) (C10-C25)		66.7	73.5		mg/Kg		110	50 - 150		
Residual Range Organics (RRO) (C25-C36)		66.7	76.0		mg/Kg		114	50 - 150		
Surrogate		LCS	LCS							
	%Recovery	Qualifier	Limits							
o-Terphenyl	100		50 - 150							
n-Triacontane-d62	100		50 - 150							

Lab Sample ID: 590-26366-2 DU

Matrix: Solid

Analysis Batch: 49003

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 48991

	Sample	Sample		DU	DU				RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
Diesel Range Organics (DRO) (C10-C25)	15			6.96	J F5	mg/Kg	⊛		71	40
Residual Range Organics (RRO) (C25-C36)	7.2	J		6.10	J	mg/Kg	⊛		16	40
Surrogate		DU	DU							
	%Recovery	Qualifier	Limits							
o-Terphenyl	87		50 - 150							
n-Triacontane-d62	89		50 - 150							

Lab Sample ID: 590-26366-6 DU

Matrix: Solid

Analysis Batch: 49003

Client Sample ID: GEI 073-B2 (13-14)

Prep Type: Total/NA

Prep Batch: 48991

	Sample	Sample		DU	DU				RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
Diesel Range Organics (DRO) (C10-C25)	1500			1470		mg/Kg	⊛		3	40
Residual Range Organics (RRO) (C25-C36)	23	J		20.5	J	mg/Kg	⊛		12	40
Surrogate		DU	DU							
	%Recovery	Qualifier	Limits							
o-Terphenyl	3	S1-	50 - 150							
n-Triacontane-d62	92		50 - 150							

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-49174/2-A  
Matrix: Solid  
Analysis Batch: 49225

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 49174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3	0.50	mg/Kg		08/23/24 11:16	08/26/24 13:29	1
Barium	ND	^1+	1.3	0.34	mg/Kg		08/23/24 11:16	08/26/24 13:29	1
Cadmium	ND		1.0	0.059	mg/Kg		08/23/24 11:16	08/26/24 13:29	1
Chromium	ND	^1+	1.3	0.18	mg/Kg		08/23/24 11:16	08/26/24 13:29	1
Lead	ND		3.0	1.5	mg/Kg		08/23/24 11:16	08/26/24 13:29	1
Selenium	ND		5.0	3.0	mg/Kg		08/23/24 11:16	08/26/24 13:29	1

Lab Sample ID: MB 590-49174/2-A  
Matrix: Solid  
Analysis Batch: 49233

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 49174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		1.3	0.34	mg/Kg		08/23/24 11:16	08/26/24 17:41	1
Chromium	ND		1.3	0.18	mg/Kg		08/23/24 11:16	08/26/24 17:41	1
Silver	ND		1.3	0.29	mg/Kg		08/23/24 11:16	08/26/24 17:41	1

Lab Sample ID: LCS 590-49174/1-A  
Matrix: Solid  
Analysis Batch: 49225

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 49174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	96.1		mg/Kg		96	80 - 120
Barium	100	84.6	^1+	mg/Kg		85	80 - 120
Cadmium	50.0	47.0		mg/Kg		94	80 - 120
Chromium	50.0	49.6	^1+	mg/Kg		99	80 - 120
Lead	50.0	50.0		mg/Kg		100	80 - 120
Selenium	100	96.2		mg/Kg		96	80 - 120

Lab Sample ID: LCS 590-49174/1-A  
Matrix: Solid  
Analysis Batch: 49233

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 49174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	100	87.6		mg/Kg		88	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Silver	5.00	6.15	*+	mg/Kg		123	80 - 120

Lab Sample ID: 590-26366-2 MS  
Matrix: Solid  
Analysis Batch: 49225

Client Sample ID: GEI 073-B1 (10-11.5)  
Prep Type: Total/NA  
Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		107	101		mg/Kg	☼	94	75 - 125
Cadmium	ND		53.5	50.2		mg/Kg	☼	94	75 - 125
Lead	ND		53.5	56.7		mg/Kg	☼	106	75 - 125
Selenium	ND		107	100		mg/Kg	☼	94	75 - 125

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: 590-26366-2 MS

Matrix: Solid

Analysis Batch: 49233

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	82		107	166		mg/Kg	⚡	79	75 - 125
Chromium	5.2	J	53.5	58.0		mg/Kg	⚡	99	75 - 125
Silver	ND	*+ F1	5.35	3.65	J F1	mg/Kg	⚡	68	75 - 125

Lab Sample ID: 590-26366-2 MSD

Matrix: Solid

Analysis Batch: 49225

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		111	108		mg/Kg	⚡	97	75 - 125	7	20
Cadmium	ND		55.6	51.7		mg/Kg	⚡	93	75 - 125	3	20
Lead	ND		55.6	62.1		mg/Kg	⚡	112	75 - 125	9	20
Selenium	ND		111	106		mg/Kg	⚡	96	75 - 125	6	20

Lab Sample ID: 590-26366-2 MSD

Matrix: Solid

Analysis Batch: 49233

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	82		111	185		mg/Kg	⚡	93	75 - 125	11	20
Chromium	5.2	J	55.6	64.4		mg/Kg	⚡	106	75 - 125	10	20
Silver	ND	*+ F1	5.56	4.47	J	mg/Kg	⚡	80	75 - 125	20	20

Lab Sample ID: 590-26366-2 DU

Matrix: Solid

Analysis Batch: 49225

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/Kg	⚡	NC	20
Cadmium	ND		ND		mg/Kg	⚡	NC	20
Lead	ND		ND		mg/Kg	⚡	NC	20
Selenium	ND		ND		mg/Kg	⚡	NC	20

Lab Sample ID: 590-26366-2 DU

Matrix: Solid

Analysis Batch: 49233

Client Sample ID: GEI 073-B1 (10-11.5)

Prep Type: Total/NA

Prep Batch: 49174

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	82		75.8		mg/Kg	⚡	7	20
Chromium	5.2	J	6.12	J	mg/Kg	⚡	17	20
Silver	ND	*+ F1	ND	*+	mg/Kg	⚡	NC	20

Lab Sample ID: MB 590-49177/2-A

Matrix: Water

Analysis Batch: 49221

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 49177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:33	08/23/24 19:08	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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

Lab Sample ID: LCS 590-49177/1-A  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 49177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: MB 590-49175/2-B  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: Method Blank  
Prep Type: Dissolved  
Prep Batch: 49178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060	0.0051	mg/L		08/23/24 11:37	08/23/24 16:59	1

Lab Sample ID: LCS 590-49175/1-B  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: Lab Control Sample  
Prep Type: Dissolved  
Prep Batch: 49178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1.00	1.10		mg/L		110	80 - 120

Lab Sample ID: 590-26366-22 MS  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: GEI 073-B1-080824  
Prep Type: Dissolved  
Prep Batch: 49178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1.00	1.06		mg/L		106	75 - 125

Lab Sample ID: 590-26366-22 MSD  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: GEI 073-B1-080824  
Prep Type: Dissolved  
Prep Batch: 49178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1.00	1.12		mg/L		112	75 - 125	5	20

Lab Sample ID: 590-26366-22 DU  
Matrix: Water  
Analysis Batch: 49221

Client Sample ID: GEI 073-B1-080824  
Prep Type: Dissolved  
Prep Batch: 49178

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

## Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-48908/9-A  
Matrix: Solid  
Analysis Batch: 48942

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50	12	ug/Kg		08/13/24 11:41	08/14/24 14:55	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

## Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 590-48908/8-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 48942				Prep Batch: 48908			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	200	200		ug/Kg		100	80 - 120

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B1 (10-11.5)**

**Lab Sample ID: 590-26366-2**

**Date Collected: 08/08/24 13:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B1 (10-11.5)**

**Lab Sample ID: 590-26366-2**

**Date Collected: 08/08/24 13:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.926 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	48993	08/16/24 22:23	JSP	EET SPK
Total/NA	Prep	5035			14.926 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/16/24 22:23	JSP	EET SPK
Total/NA	Prep	8011			10.47 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 20:28	NMI	EET SPK
Total/NA	Prep	3550C			15.97 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 18:46	NMI	EET SPK
Total/NA	Prep	3050B			1.30 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 13:33	AMB	EET SPK

**Client Sample ID: GEI 073-B2 (13-14)**

**Lab Sample ID: 590-26366-6**

**Date Collected: 08/08/24 17:20**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B2 (13-14)**

**Lab Sample ID: 590-26366-6**

**Date Collected: 08/08/24 17:20**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 90.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.682 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	48993	08/16/24 22:49	JSP	EET SPK
Total/NA	Prep	5035			14.682 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	48994	08/16/24 22:49	JSP	EET SPK
Total/NA	Prep	8011			10.10 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 21:18	NMI	EET SPK
Total/NA	Prep	3550C			15.11 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 19:29	NMI	EET SPK
Total/NA	Prep	3050B			1.41 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 13:58	AMB	EET SPK

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# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B3 (10-11)**

**Lab Sample ID: 590-26366-9**

**Date Collected: 08/09/24 08:20**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B3 (10-11)**

**Lab Sample ID: 590-26366-9**

**Date Collected: 08/09/24 08:20**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.175 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	48993	08/16/24 23:14	JSP	EET SPK
Total/NA	Prep	5035			11.175 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/16/24 23:14	JSP	EET SPK
Total/NA	Prep	8011			10.32 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 21:51	NMI	EET SPK
Total/NA	Prep	3550C			15.68 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 20:12	NMI	EET SPK
Total/NA	Prep	3050B			1.37 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:02	AMB	EET SPK

**Client Sample ID: GEI 073-B4 (13-14)**

**Lab Sample ID: 590-26366-12**

**Date Collected: 08/09/24 11:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B4 (13-14)**

**Lab Sample ID: 590-26366-12**

**Date Collected: 08/09/24 11:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 91.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.823 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	48993	08/16/24 23:39	JSP	EET SPK
Total/NA	Prep	5035			10.823 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/16/24 23:39	JSP	EET SPK
Total/NA	Prep	8011			10.22 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 22:08	NMI	EET SPK
Total/NA	Prep	3550C			15.91 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 20:34	NMI	EET SPK
Total/NA	Prep	3050B			1.32 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:18	AMB	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B5 (5-6)**

**Lab Sample ID: 590-26366-14**

**Date Collected: 08/09/24 14:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48930	08/14/24 10:52	AMB	EET SPK

**Client Sample ID: GEI 073-B5 (5-6)**

**Lab Sample ID: 590-26366-14**

**Date Collected: 08/09/24 14:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 89.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.754 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	48993	08/17/24 00:30	JSP	EET SPK
Total/NA	Prep	5035			9.754 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/17/24 00:30	JSP	EET SPK
Total/NA	Prep	8011			10.35 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 22:24	NMI	EET SPK
Total/NA	Prep	3550C			15.56 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 20:55	NMI	EET SPK
Total/NA	Prep	3050B			1.43 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:22	AMB	EET SPK

**Client Sample ID: GEI 073-B5 (10-11)**

**Lab Sample ID: 590-26366-15**

**Date Collected: 08/09/24 14:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B5 (10-11)**

**Lab Sample ID: 590-26366-15**

**Date Collected: 08/09/24 14:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 89.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.209 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	48993	08/17/24 00:55	JSP	EET SPK
Total/NA	Prep	5035			11.209 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/17/24 00:55	JSP	EET SPK
Total/NA	Prep	8011			10.65 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 22:41	NMI	EET SPK
Total/NA	Prep	3550C			15.70 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 21:17	NMI	EET SPK
Total/NA	Prep	3050B			1.48 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:26	AMB	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B6 (8-9)**

**Lab Sample ID: 590-26366-18**

**Date Collected: 08/09/24 17:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-B6 (8-9)**

**Lab Sample ID: 590-26366-18**

**Date Collected: 08/09/24 17:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 95.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.914 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	49022	08/19/24 13:22	JSP	EET SPK
Total/NA	Prep	5035			14.914 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/17/24 01:21	JSP	EET SPK
Total/NA	Prep	8011			10.49 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 22:58	NMI	EET SPK
Total/NA	Prep	3550C			15.80 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 22:00	NMI	EET SPK
Total/NA	Prep	3050B			1.40 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:31	AMB	EET SPK

**Client Sample ID: GEI 073-DUP**

**Lab Sample ID: 590-26366-20**

**Date Collected: 08/09/24 07:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-DUP**

**Lab Sample ID: 590-26366-20**

**Date Collected: 08/09/24 07:30**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 87.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15.793 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	49022	08/19/24 13:47	JSP	EET SPK
Total/NA	Prep	5035			15.793 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	48994	08/17/24 01:46	JSP	EET SPK
Total/NA	Prep	8011			10.52 g	2 mL	48924	08/14/24 07:48	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	48948	08/14/24 23:14	NMI	EET SPK
Total/NA	Prep	3550C			15.65 g	5 mL	48991	08/16/24 11:14	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/16/24 22:22	NMI	EET SPK
Total/NA	Prep	3050B			1.45 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:35	AMB	EET SPK

Eurofins Spokane



# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-COMP**

**Lab Sample ID: 590-26366-21**

**Date Collected: 08/09/24 00:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48905	08/13/24 11:34	AMB	EET SPK

**Client Sample ID: GEI 073-COMP**

**Lab Sample ID: 590-26366-21**

**Date Collected: 08/09/24 00:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.50 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49225	08/26/24 14:39	AMB	EET SPK
Total/NA	Prep	3050B			1.50 g	50 mL	49174	08/23/24 11:16	AMB	EET SPK
Total/NA	Analysis	6010D		10			49233	08/26/24 18:10	AMB	EET SPK
Total/NA	Prep	7471B			0.77 g	50 mL	48908	08/13/24 11:41	AMB	EET SPK
Total/NA	Analysis	7471B		1			48942	08/14/24 15:56	AMB	EET SPK

**Client Sample ID: GEI 073-B1-080824**

**Lab Sample ID: 590-26366-22**

**Date Collected: 08/09/24 16:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 17:37	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	49027	08/16/24 17:37	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 00:04	NMI	EET SPK
Total/NA	Prep	3510C			257.9 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 04:49	NMI	EET SPK
Total/NA	Prep	3510C			257.9 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 08:24	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:04	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:02	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:13	AMB	EET SPK

**Client Sample ID: GEI 073-B3-080924**

**Lab Sample ID: 590-26366-23**

**Date Collected: 08/09/24 10:40**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 18:19	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	49027	08/16/24 18:19	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 00:21	NMI	EET SPK

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# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B3-080924**

**Lab Sample ID: 590-26366-23**

**Date Collected: 08/09/24 10:40**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			262 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 05:11	NMI	EET SPK
Total/NA	Prep	3510C			262 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 08:46	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:28	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:06	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:17	AMB	EET SPK

**Client Sample ID: GEI 073-B4-080924**

**Lab Sample ID: 590-26366-24**

**Date Collected: 08/09/24 12:50**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 18:40	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	49027	08/16/24 18:40	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 00:38	NMI	EET SPK
Total/NA	Prep	3510C			261.3 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 05:32	NMI	EET SPK
Total/NA	Prep	3510C			261.3 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 09:07	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:32	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:10	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:21	AMB	EET SPK

**Client Sample ID: GEI 073-B5-080924**

**Lab Sample ID: 590-26366-25**

**Date Collected: 08/09/24 17:00**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 19:01	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	49050	08/19/24 18:07	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	49051	08/19/24 18:07	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 00:54	NMI	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B5-080924**

**Lab Sample ID: 590-26366-25**

**Date Collected: 08/09/24 17:00**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			259.8 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 05:54	NMI	EET SPK
Total/NA	Prep	3510C			259.8 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 09:29	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:49	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:14	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:38	AMB	EET SPK

**Client Sample ID: GEI 073-B6-080924**

**Lab Sample ID: 590-26366-26**

**Date Collected: 08/09/24 19:00**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 19:22	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	49027	08/16/24 19:22	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 01:11	NMI	EET SPK
Total/NA	Prep	3510C			263.6 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 06:15	NMI	EET SPK
Total/NA	Prep	3510C			263.6 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 09:51	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:53	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:18	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:42	AMB	EET SPK

**Client Sample ID: GEI 073-080924DUP**

**Lab Sample ID: 590-26366-27**

**Date Collected: 08/09/24 07:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 19:43	JSP	EET SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	49050	08/19/24 18:28	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	49051	08/19/24 18:28	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	49000	08/16/24 15:37	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	49007	08/17/24 01:44	NMI	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-080924DUP**

**Lab Sample ID: 590-26366-27**

**Date Collected: 08/09/24 07:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			259.6 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 06:37	NMI	EET SPK
Total/NA	Prep	3510C			259.6 mL	2 mL	48965	08/15/24 14:22	NMI	EET SPK
Total/NA	Cleanup	3630C			1 mL	1 mL	49004	08/15/24 14:22	MRV	EET SPK
Total/NA	Analysis	NWTPH-Dx		1	1 mL	1 mL	49003	08/17/24 10:12	NMI	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 17:57	AMB	EET SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:23	AMB	EET SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	49177	08/23/24 11:33	AMB	EET SPK
Total Recoverable	Analysis	6010D		1			49221	08/23/24 19:46	AMB	EET SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-26366-28**

**Date Collected: 08/09/24 00:00**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	49026	08/16/24 20:04	JSP	EET SPK

**Client Sample ID: Trip Blank**

**Lab Sample ID: 590-26366-29**

**Date Collected: 08/09/24 00:00**

**Matrix: Solid**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.008 g	10 mL	48992	08/16/24 11:53	JSP	EET SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	49022	08/19/24 14:12	JSP	EET SPK

**Client Sample ID: GEI 073-B1-080824 (2 micron)**

**Lab Sample ID: 590-26366-30**

**Date Collected: 08/09/24 16:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:27	AMB	EET SPK

**Client Sample ID: GEI 073-B3-080924 (2 micron)**

**Lab Sample ID: 590-26366-31**

**Date Collected: 08/09/24 10:40**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:43	AMB	EET SPK

Eurofins Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

**Client Sample ID: GEI 073-B4-080924 (2 micron)**

**Lab Sample ID: 590-26366-32**

**Date Collected: 08/09/24 12:50**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:48	AMB	EET SPK

**Client Sample ID: GEI 073-B5-080924 (2 micron)**

**Lab Sample ID: 590-26366-33**

**Date Collected: 08/09/24 17:50**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:52	AMB	EET SPK

**Client Sample ID: GEI 073-B6-080924 (2 micron)**

**Lab Sample ID: 590-26366-34**

**Date Collected: 08/09/24 19:00**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 18:56	AMB	EET SPK

**Client Sample ID: GEI 073-080924DUP (2 micron)**

**Lab Sample ID: 590-26366-35**

**Date Collected: 08/09/24 07:30**

**Matrix: Water**

**Date Received: 08/12/24 09:26**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	49175	08/23/24 11:28	AMB	EET SPK
Dissolved	Prep	3005A			50 mL	50 mL	49178	08/23/24 11:37	AMB	EET SPK
Dissolved	Analysis	6010D		1			49221	08/23/24 19:00	AMB	EET SPK

## Laboratory References:

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

Accreditation/Certification Summary

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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	01-07-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

1
2
3
4
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11
12

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Roy Farms/0504-213-00

Job ID: 590-26366-1

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
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SPK
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	EET SPK
6010D	Metals (ICP)	SW846	EET SPK
7471B	Mercury (CVAA)	SW846	EET SPK
Moisture	Percent Moisture	EPA	EET SPK
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SPK
3050B	Preparation, Metals	SW846	EET SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SPK
3550C	Ultrasonic Extraction	SW846	EET SPK
3630C	Silica Gel Cleanup	SW846	EET SPK
5030C	Purge and Trap	SW846	EET SPK
5035	Closed System Purge and Trap	SW846	EET SPK
7471B	Preparation, Mercury	SW846	EET SPK
8011	Microextraction	SW846	EET SPK
FILTRATION	Sample Filtration	None	EET SPK

## Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

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

## Laboratory References:

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

Eurofins Spokane  
11922 E 1st Avenue

# Chain of Custody Record



Environment Testing  
America

Spokane, WA 99206-5302  
phone 509.924.9200 fax 509.924.9290

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Eurofins Environment Testing America

Client Contact		Project Manager: Andrew Provant		COC No:													
GeoEngineers, Inc.		Email: aprovant@geoengineers.com		1 of 3 COCs													
412 East Parkcenter Blvd, Suite 305		Tel/Fax: 208.258.8328		TALS Project #													
Boise, ID 83706		Analysis Turnaround Time		Sampler:													
208.258.8328		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		For Lab Use Only:													
FAX		TAT if different from Below		Walk-in Client:													
Project Name: Roy Farms		<input checked="" type="checkbox"/> 2 weeks		Lab Sampling:													
Site:		<input type="checkbox"/> 1 week		Job / SDG No.													
PO # 0504-213-00		<input type="checkbox"/> 2 days															
		<input type="checkbox"/> 1 day															
Sample Identification	Sample Date	Sample Time	Sample Type (e.g. Comp, Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	GRPH / NWTPH-Gx	BTEX, Naphthalene, EDC, MTBE / 40640	EDB / 8011	Lead (soil) / 60100	Total Lead (GW) / 60100	Dissolved Lead (field filter) / 60100	Dissolved Lead (2 micron lab filter)	RCRA 8 Metals (soil)	HOLD	Sample Specific Notes
✓ GEI073-B1 (3-4)	08/08/24	1315	G													X	
✓ GEI073-B1 (10-11-5)	11	1330	G					X	X	X	X						
✓ GEI073-B1 (25-26)	11	1500	G													X	
✓ GEI073-B2 (5-6)	11	1630	G													X	
✓ GEI073-B2 (10-11)	11	1650	G													X	
✓ GEI073-B2 (13-14)	11	1720	G					X	X	X	X						
✓ GEI073-B2 (19-20)	11	1750	G													X	
✓ GEI073-B3 (3-4)	11	1915	G													X	
✓ GEI073-B3 (10-11)	08/09/24	0820	G					X	X	X	X						
✓ GEI073-B3 (19-20)	11	0915	G													X	
✓ GEI073-B4 (5-6)	11	1030	G													X	
✓ GEI073-B4 (15-14)	11	1100	G					X	X	X	X						
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other																	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.																	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for Months																	
Special Instructions/QC Requirements & Comments:																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Relinquished by:		Custody Seal No.		Cooler Temp. (°C): Obs'd:		Cor'd:		Therm ID No.									
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:							



Environment Testing  
America

Spokane, WA 99208-5302  
phone 509.924.9200 fax 509.924.9290

Regulatory Program. ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

**Eurofins Environment Testing America**

[illegible]



Eurofins Spokane  
11922 E 1st Avenue

## Chain of Custody Record



Environment Test  
America

Spokane, WA 99206-6302  
phone 509 924 9200 fax 509 924 9290

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Eurofins Environment Testing America

Client Contact		Project Manager: Andrew Provant		Site Contact:		Date:		COC No.										
GeoEngineers, Inc.		Email: aprovant@geoengineers.com		Lab Contact:		Carrier:		3 of 3 COCs										
412 East Parkcenter Blvd, Suite 305		Tel/Fax: 208.258.8328						TAIS Project #										
Boise, ID 83706		Analyze Turnaround Time						Sampler										
208.258.8328		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:										
FAX		TAT # different from Below						Walk-in Client										
Project Name: Roy Farms		<input type="checkbox"/> 2 weeks						Lab Sampling:										
Site		<input type="checkbox"/> 1 week						Job / SDG No.										
P O # 0504-213-00		<input type="checkbox"/> 2 days																
		<input type="checkbox"/> 1 day																
Sample Identification	Sample Date	Sample Time	Sample Type (e.g., G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	GC/MS / N/TPH-Gx	BTEX, Naphthalene, EDC, MTBE / RND	EDB / B011	Lead (Lo/L) / B0100	Total Lead (G/L) / B0100	Dissolved Lead (field filter) / B0100	Dissolved Lead (0.45 micron lab filter)	Dissolved Lead (2 micron lab filter)	PCRA 8 Metals (Lo/L)	HOLD	Sample Specific Notes
✓ GEI 073-B1-080924	08/09/24	1630	G					X	X	X	X	X	X	X	X			
✓ GEI 073-B3-080924	08/09/24	1040	G					X	X	X	X	X	X	X	X			
✓ GEI 073-B4-080924	11	1250	G					X	X	X	X	X	X	X	X			
✓ GEI 073-B5-080924	"	1700	G					X	X	X	X	X	X	X	X			
✓ GEI 073-B6-080924	11	1900	G					X	X	X	X	X	X	X	X			
✓ GEI 073-B8-080924 DUP	11	0730	G					X	X	X	X	X	X	X	X			
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other																		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.																		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Hazardous <input type="checkbox"/> Return to Client <input type="checkbox"/> Destroy by Lab <input type="checkbox"/> Archive for Months																		
Special Instructions/QC Requirements & Comments:																		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No																		
Cooler Temp. (°C) Obs'd: _____ Cool'd: _____ Therm ID No. _____																		
Relinquished by: _____ Company: _____ Date/Time: 8/12/24/0723																		
Received by: _____ Company: _____ Date/Time: _____																		
Received in Laboratory by: _____ Company: _____ Date/Time: _____																		

Scanned with CamScanner

## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-26366-1

**Login Number: 26366**

**List Source: Eurofins Spokane**

**List Number: 1**

**Creator: Vaughan, Madison R**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Appendix E

### Report Limitations and Guidelines for Use

## Appendix E

### Report Limitations and Guidelines for Use<sup>1</sup>

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 Roy Farms located at 401 Walters Road in Moxee, 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

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<sup>1</sup> Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; [www.asfe.org](http://www.asfe.org).

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 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.

