Environmental Site Assessment

Neighbors Conoco Gas Station, Carwash & Convenience Store
780 Stevens Drive
Richland, Washington 99352
GIEIM Project Number CB081023A

September 21, 2023

Prepared for:
Eternal Hotels & One Stop Mart
1903 Jadwin Avenue
Richland, Washington 99352

Prepared by:
Green Environmental Management
(855) 277-5307

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1 Introduction

Green Environmental Management (GEM) conducted an Environmental Site Assessment (ESA) for Eternal Hotels & One Stop Mart at the property located at 780 Stevens Drive, Richland, Washington 99352.

The site vicinity is depicted on Figure 1: Site Location Map. The configuration of the property is depicted on Figure 2: Site Plan.

1.1 Background

The subject property consists of a single, 0.58-acre Benton County tax lot located at the southeastern corner of the intersection of Stevens Drive and Knight Street in Richland, Washington. The property is occupied by a convenience store with an attached drive-through carwash and Conoco-branded gas station. Based on information obtained from the Benton County Assessor, the subject property is developed with a gas station and a circa-1955, 2,092 square-foot concrete block convenience store with an attached, circa-2010, 720 square-foot drive-through carwash. The gas station is equipped with two fuel island canopies over four fuel pumps; one fueling island is on the north side of the lot and the other is on the west side. Fuel is stored in three (3) underground storage tanks (USTs) in a vault to the east of the store. According to the Washington Department of Ecology (Ecology), the USTs include one (1) 12,000-gallon regular-grade gasoline tank, one (1) 12,000-gallon diesel tank, and one (1) 12,000-gallon gasoline tank. The tanks are of single-walled steel construction and are protected from corrosion by an impressed current cathodic protection and internal lining. The products are connected with double-walled fiberglass piping. The tanks were all installed in 1987 and were upgraded in 1998.

According to the latest tank tightness testing results downloaded from Ecology's website, the UST system is currently in compliance. In the absence of any regulatory monitoring and/or bookkeeping evidence to suggest the presence or likely presence of a release of petroleum products from the UST system, the USTs would typically not be considered an environmental risk, however given the age of the UST system, undetected releases cannot be ruled out.

GEM recommended an ESA at the site consisting of the advancement of seven (7) direct-push soil borings to 25 feet below ground surface (bgs), groundwater, or refusal, whichever is first encountered, for subsurface observations and the field screening, collection and analysis of seven (7) soil samples and three (3) groundwater samples (if groundwater is encountered).

2 Scope of Services

The recommended scope of services for this investigation as outlined in GEM's proposal dated August 10, 2023, included the following:

- GEM will contract and oversee a private utility locater to clear planned boreholes ahead of the investigation.
- GEM will advance seven (7) direct-push soil borings to a depth of 25 feet bgs, groundwater or refusal, whichever is first encountered.
- At least one (1) soil sample will be collected from each of the soil borings. The soil samples will be field screened for odors and discoloration. Soil cores will be continuously monitored with a handheld, portable photoionization detector (PID). Soil samples will be collected from the soil interval(s) that display elevated PID readings and/or evidence of contamination such as odor and/or staining. If no evidence of contamination is observed, soil samples will be collected from the soil/groundwater

interface or absent groundwater, the depth just below the feature of concern (fuel pump piping, USTs, etc.).

- Soil samples will be analyzed for gasoline and diesel to heavy oil range-hydrocarbons (TPH-G, TPH-D and TPH-O) via Northwest Method NWTPH-Gx and NWTPH-Dx, and for benzene, toluene, ethylbenzene and xylenes (BTEX) via EPA Method 8260.
- If groundwater is encountered, three (3) select borings will be converted to temporary water wells for the collection of up to three (3) groundwater samples.
- Groundwater samples (if collected) will be analyzed for TPH-G via Northwest Method NWTPH-Gx, TPH-D and TPH-O via Northwest MethodNWTPH-Dx, and for BTEX via EPA Method 8260.
- GEM will prepare a report detailing our findings and recommendations.

The investigation was conducted on August 29 and 30, 2023.

3 Investigation Activities

Washington One-Call was notified of the impending investigation on August 24, 2023 (Ticket No 23341107). Waypoint Locations of Kennewick, Washington was contracted to locate utilities and clear the boreholes of underground obstructions ahead of the investigation. B&W Standard Environmental Probe, of Spanaway, Washington, was contracted for the soil boring portion of the investigation.

3.1 Direct-push Boring

On August 29 and 30, 2023, GEM advanced six (6) soil borings onsite; designated B-1 through B-6, adjacent to the fuel dispensing islands and adjacent to the north and south sides of the UST nest. A seventh boring was foregone due to the presence of underground utilities to the north and west of the UST nest, as well as fuel product lines assumed to be present between the USTs and the fuel islands. The locations of the borings are depicted along with features of interest on Figure 2.

The borings were advanced via truck-mounted Geoprobe® 6600 heavy duty direct-push hydraulic drilling machine; operated by Washington-licensed driller Russell Vaughan. Each of the 2½-inch outer diameter macro-cores was lined with an acetate sample liner and driven in approximately 4-foot intervals until maximum desired depth was achieved. After the advancement of each core interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the onsite project geologist. The cores were measured, and soils were logged. The soil cores were visually inspected for discoloration and odors, and were continually monitored for VOCs using a handheld MiniRae™ PID. Sampling equipment, including probe rods, sampling barrels, and other equipment, was decontaminated between core intervals using a triple-rinse system containing Alconox™. The soil cuttings and rinse water were drummed, sealed, and staged onsite.

The borings were advanced to depths ranging from 20 to 25 feet bgs. Groundwater was encountered in all six borings at a depth of 15 feet bgs. The borings generally encountered native materials beneath the asphalt cover consisting of silt, sand and sandy gravel. Boring B-6, advanced to the south of the UST nest, encountered 5 feet of gravelly silt fill under the asphalt.

No discoloration or unusual odors were observed and no elevated PID readings were noted in any of the soil cores. The borings were backfilled with hydrated bentonite chips at the close of the investigation as required by the Washington Department of Ecology, and the ground surface was patched to match the preexisting cover. Boring logs are included as Appendix A.

3.2 Soil Sample Collection

One (1) soil sample was collected from each boring for a total of six (6) soil samples. The soil samples were collected from the approximate soil/groundwater interface. The soil sample nomenclature was designated by boring and depth: B-1-15, B-2-15, B-3-15, B-4-15, B-5-15 and B-6-15.

The samples were collected via EPA Method 5035. Each of the soil samples were immediately placed into clean laboratory-supplied glass containers, distinctively labeled, and placed into a cooler on ice pending transport for analysis under proper chain-of-custody to the project laboratory, Apex Labs of Tigard, Oregon.

3.3 Groundwater Sample Collection

Temporary borings B-2, B-4, B-5 and B-6 were each fitted with a dedicated polyvinyl chloride (PVC) slotted screen and casing and allowed to equilibrate for approximately 20 minutes. The groundwater levels were then measured and the wells were purged of at least one well casing volume prior to sampling. The temporary wells constructed in borings B-5 and B-6 did not recharge and were not therefore sampled for groundwater.

Groundwater samples were collected from the cased borings utilizing clean dedicated silicone and polyethylene tubing connected to a peristaltic pump. Each of the water sample volumes were collected into clean laboratory-supplied containers and distinctively labeled by boring (B-2 GW and B-4 GW).

The labeled water sample containers were immediately placed into a cooler on ice pending transport for analysis under proper chain-of-custody to Apex Labs.

4 Soil Analytical Results

All six (6) soil samples were submitted to Apex Labs for analysis of TPH-G via Northwest Method NWTPH-Gx, for TPH-D and TPH-O via Northwest Method NWTPH-Dx, and for BTEX via EPA Method 8260.

The soil analytical results were compared to their applicable Washington State Method A (Unrestricted Land Use) Cleanup Levels as published in the Washington Department of Ecology's *Table 740-1 Method A Soil Cleanup Levels for Unrestricted Land Uses* in Ecology's *Cleanup Levels and Risk Calculation (CLARC) Master Table*. CLARC is an online compendium of technical information related to calculating cleanup levels under MTCA[1] Regulation. The Master Table was most recently updated in January 2023.

No TPH-G or TPH-D was detected in any of the soil samples in excess of the laboratory method reporting limits (MRLs), which were in each case below the MTCA Method A Cleanup Levels for gasoline and diesel in soil of 100 milligrams per kilogram (mg/Kg; no benzene present) and 2,000 mg/Kg respectively.

Soil samples B-1-15, B-5-15 and B-6-15 were found to contain 107, 31.3 and 242 mg/Kg heavy oil (TPH-O) respectively. These results are well below the MTCA Method A Cleanup Level for heavy oil in soil of 2,000 mg/Kg.

No BTEX was detected in any of the soil samples in excess of the MRLs, which were in each case below the MTCA Method A Cleanup Levels of 30 micrograms per kilogram (µg/Kg) for benzene, 7,000 µg/Kg for toluene, 6,000 µg/Kg for ethylbenzene, and 9,000 µg/Kg for xylenes.

[1] *Model Toxics Control Act Statute and Regulation - Model Toxics Control Act Chapter 70.105D RCW, Uniform Environmental Covenants Act Chapter 64.70 RCW, MTCA Cleanup Regulation Chapter 173-340 WAC*, (revised 2013).

The soil analytical results are presented in the Apex Labs report in Appendix B.

5 Groundwater Analytical Results

Both groundwater samples (B-2 GW and B-4 GW) were submitted to Apex Labs for analysis of TPH-G via Northwest Method NWTPH-Gx, for TPH-D and TPH-O via Northwest Method NWTPH-Dx, and for BTEX via EPA Method 8260.

The laboratory notified GEM that the preliminary Method 8260 analysis indicated the presence of chlorinated solvents in the groundwater samples. On this basis, GEM requested the full suite of volatile organic compounds (VOCs) reported for the samples.

The groundwater analytical results were compared to their MTCA Method A Cleanup Levels (CLARC Master Table 2023). Where Method A Cleanup Levels do not exist, the sample results were compared to Method B Cleanup Levels[2] (Direct Contact, both cancer and noncancer risks).

No TPH-D or TPH-O was detected in the groundwater samples in excess of MRLs which were in each case below the MTCA Method A Cleanup Levels for diesel and oil in groundwater of 500 micrograms per liter (µg/L).

TPH-G was detected in B-2 GW at a concentration of 0.0819 µg/L. This result is lower than the MRL and is therefore an estimated result. The Method A Cleanup Level for gasoline in groundwater is 1,000 µg/L.

B-2 GW and B-4 GW were found to contain 18.9 and 1.00 µg/L tetrachloroethene (PCE). PCE is a chlorinated solvent commonly used as a dry-cleaning agent. The most stringent (Method A direct contact) Cleanup Level for PCE in groundwater is 5.00 µg/L. No other VOCs were detected in the groundwater samples in excess of MRLs. The second most stringent Screening Level for PCE in groundwater (Method B Vapor Intrusion from Groundwater (Cancer) Screening Level) is 25.0 µg/L.

Although no other compounds in groundwater were found to exceed their respective Cleanup Levels (where they exist), the 1,2-Dibromoethane (EDB) MRL did not meet the Cleanup Level. Taken by itself, this doesn't indicate EDB is present in excess of the Cleanup Level. Rather, the analytical method was unable to quantify EDB at a concentration that meets or exceeds the relatively low Cleanup Level; therefore, EDB > CUL cannot be ruled out. EDB is a lead scavenger additive and was at one time an additive to leaded gasoline.

The groundwater analytical results are presented in the Apex Labs report in Appendix B.

6 Discussion

GEM conducted a Phase II for Eternal Hotels & One Stop Mart at the Neighbors Conoco Gas Station located at 780 Stevens Drive, Richland, Washington 99352. The purpose of the investigation was to assess the subsurface of the property for potentially adverse impacts related to the operation of an active retail gas station onsite.

As part of the investigation, GEM advanced six (6) soil borings onsite; designated B-1 through B-6, adjacent to the two fuel dispensing islands and adjacent to the north and south sides of the USTs.

The borings were advanced to depths ranging from 20 to 25 feet bgs. No discoloration or unusual odors were observed and no elevated PID readings were noted in any of the soil cores. Groundwater was encountered in the soil borings at a consistent depth of 15 feet bgs. Four (4) of the soil borings were

[2]Where Method B Cleanup Levels exist; some compounds have neither Method A nor B Cleanup Levels.

converted to temporary water wells; however, only two were productive and able to be sampled for groundwater.

Six soil samples collected from the soil/groundwater interface at 15 feet bgs (one from each boring) and two groundwater samples (B-2 GW and B-4 GW) were collected for analysis.

All six soil samples and both groundwater samples were submitted to the project laboratory for TPH-G, TPH-D, TPH-O and BTEX analysis.

No TPH-G or TPH-D was detected in any of the soil samples in excess of MRLs, which were in each case below the MTCA Method A Cleanup Levels for gasoline and diesel in soil. Soil samples B-5-15 and B-6-15 were found to contain low concentrations of TPH-O; well below the MTCA Method A Cleanup Level for heavy oil in soil. No BTEX was detected in any of the soil samples in excess of the MRLs, which were in each case below their respective MTCA Method A Cleanup Levels.

No TPH-D or TPH-O was detected in the groundwater samples in excess of the MRLs which were in each case below the MTCA Method A Cleanup Levels for diesel and oil in groundwater. TPH-G was detected in B-2 GW at an estimated concentration (below the MRL) approximately 4 orders of magnitude below the Method A Cleanup Level for gasoline in groundwater.

The laboratory notified GEM the preliminary groundwater analytical results indicated the presence of chlorinated solvents in the groundwater samples. On this basis, GEM requested the full suite of VOCs reported for the groundwater samples.

No VOCs were detected in the groundwater samples in excess of MRLs with the exception of PCE in samples B-2 GW and B-4 GW at 18.9 and 1.00 µg/L, respectively. PCE is a chlorinated solvent commonly used as a dry-cleaning agent. The most stringent (Method A direct contact) Cleanup Level for PCE in groundwater is 5.00 µg/L; therefore, the B-2 GW results exceed the Cleanup Level.

Based on the results of the investigation, no impacts to the subsurface were detected in association with the active onsite fuel UST and associated fuel pumps. However, the detection of PCE in groundwater instigated a search for nearby dry-cleaning sites. A quick search of Ecology's online database of Cleanup Sites identified a potential source for the PCE at a site across the street from the subject property, to the west. New City Cleaners, Ecology Facility Site ID 327 (https://apps.ecology.wa.gov/cleanupsearch/site/4894) at 747 Stevens Drive has been used for commercial dry-cleaning operations continuously since the late 1940s. Historical dry-cleaning operations have reportedly utilized PCE since 1974. A reported act of vandalism in 1975 released an unknown quantity of PCE onto the ground in the southwest corner of the dry cleaner property. This release, along with other historical releases of PCE at the site have impacted soil and groundwater on and off the property. Impacted groundwater has migrated onto adjacent properties to the south and east of the site, including a property to the south occupied by the Richland School District maintenance building and a vacant property to the east formerly occupied by an Albertsons grocery store.

One of several groundwater monitoring wells established to monitor the chlorinated solvents plume, MW-171, is located near the western subject property boundary between the subject property and the former Albertsons alleyway. PCE was detected in MW-171 at 17 µg/L in 2016 and 5.4 µg/L in 2019. Given these concentrations are similar to that found in groundwater of this study, the PCE detected in groundwater of the subject property is most likely the result of an encroaching plume of PCE-impacted groundwater from the New City Cleaners site. The finding is not likely to result in unacceptable exposures for occupants or site workers at the subject property, as the property does not utilize the shallow groundwater for any beneficial reason. The property is supplied municipal water. Groundwater at the subject property is deep enough (15 feet bgs) to preclude most instances of exposure by direct contact to utility or excavation workers. The PCE concentrations detected in groundwater of the subject site are below any Vapor Intrusion Screening Levels.

On this basis, it is G|E|M's opinion no further environmental investigation of the subject property is warranted. Nevertheless, the findings of this investigation are required to be reported to Ecology per Washington Administrative Code (WAC) 173-340-300. It should be additionally noted the proposed Cleanup *(Draft Cleanup Action Plan* (DCAP) dated December 21, 2020) of the New City Cleaners site is currently in the public comment period, which ends October 2, 2023. After the public comment period ends, Ecology will review and respond to comments received and will hold a public meeting if 10 or more people request one. After review and consideration of comments received, the DCAP will become final.

An additional consideration for the subject property may arise if in the future, the current USTs are replaced or otherwise upgraded such that an excavation at the subject site is liable to encounter contaminated groundwater. Special precautions including hazardous materials training and appropriate personal protective equipment for site workers will be required. A Contaminated Media Management Plan should be developed and maintained to instruct and inform site workers on the appropriate handling and disposal of any contaminated groundwater that may be encountered during site work.

7 Recommendations

G|E|M recommends the PCE to groundwater release is reported to the Washington Department of Ecology as required by Washington State Law under MTCA WAC 173-340-300. Releases of hazardous substances must be reported within ninety (90) calendar days of discovery (WAC 173-340-300(2)). G|E|M additionally recommends the subject property owner contact the Ecology Project Manager for the New City Cleaners regarding this finding. The Ecology contact person is Rachel Caron. Rachel Caron can be reached via email at Rachel.Caron@ecy.wa.gov. Upon request, G|E|M will report this documented release of PCE to groundwater of the subject property via Ecology's reporting hotline and/or directly to Rachel Caron. Otherwise, it is assumed the Client or subject property owner will self-report.

8 Closing Statements and Signatures

This report presents a summary of work completed by GEM. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples were chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. In addition, GEM has relied on information provided by others, which is assumed to be correct, however, GEM cannot assume any responsibility for its correctness or accuracy. All conclusions and/or recommendations are based on these analyses, observations, provided information, and the governing regulations at the time of the assessment. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact Carrie Beveridge at (503) 329-9325.

Date: September 21, 2023

Report prepared by:

State of Washington
2745
Licensed Geologist

Carrie A. Beveridge

Expires 12/18/2023

State of Washington
Hydrogeologist
2267
Licensed Geologist

Brent N. Bergeron

Expires 1/3/24

Brent N. Bergeron, LHG, LG
GEM Senior Hydrogeologist

Report reviewed by

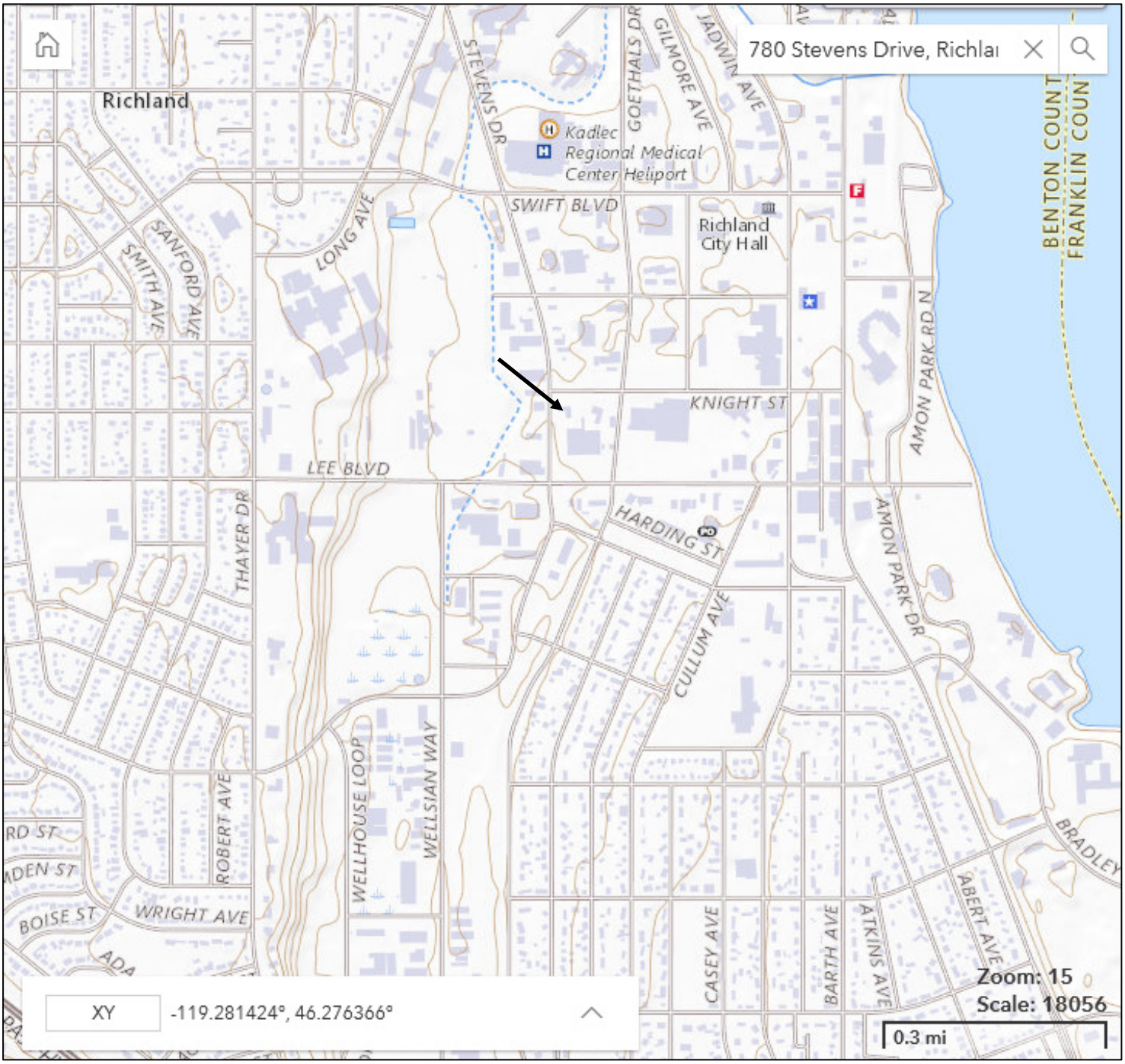
Jonathan Green
President, REPA

9 References

Washington Department of Ecology, Model Toxics Control Act Statute and Regulation - *Model Toxics Control Act Chapter 70.105D RCW, Uniform Environmental Covenants Act Chapter 64.70 RCW, MTCA Cleanup Regulation Chapter 173-340 WAC*, revised 2013

Washington Department of Ecology, Cleanup Levels and Risk Calculation (CLARC), Master Data Table, https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC, updated January 2023

Washington Department of Ecology, Cleanup and Tank Search, New City Cleaners, 747 Stevens Dr Richland, Benton County, Facility Site ID: 327 Cleanup Site ID: 4894, https://apps.ecology.wa.gov/cleanupsearch/site/4894 accessed September 16, 2023



Base map was downloaded from The National Map (U.S.G.S), https://apps.nationalmap.gov/downloader/ on 9/16/2023.

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Figure 1: Site Location Map

780 Stevens Drive, Richland, Washington 99352
Project Number: CB081023A

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Base photograph was acquired 10/16/2022. Features depicted in approximate locations and are not to scale.

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Figure 2: Site Plan

780 Stevens Drive, Richland, Washington 99352
Project Number: CB081023A

GEM
Green Environmental Management

Appendix A – Boring Logs

780 Stevens Drive, Richland, Washington 99352

September 2023

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-1
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 25'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				6 inches of asphalt and base course sand FILL	100		
				Stiff light brown SILT (ML), powdery, dry		D	0
5				Slightly moist	100	SM	0
10				Moist Soft	60	M	0
				Dense, light brown, black and white sandy GRAVEL (GW), slightly moist		SM	
15	X X	B-1-15		Loose black and brown SAND (SW) with some gravel, wet	50	W	0
20					100	W	0
25							

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-2
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 20'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				2 inches of asphalt	60		
				Medium-stiff light brown SILT (ML), powdery, dry		D	0
5				Slightly moist	100	SM	0
10				Moist Soft	60	M	
				Dense, light brown, black and white sandy GRAVEL (GW), slightly moist		SM	0
15	X X	B-2-15		Loose black and brown SAND (SW) with some gravel, wet	50	W	0
20							
25							

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-3
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 20'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				2 inches of asphalt			
				Medium-stiff light brown SILT (ML), powdery, dry	60	D	0
5				Slightly moist	40	SM	
				Medium-dense, brown, fine-grained SAND (SP), slightly moist		SM	0
10				Soft light brown SILT (ML), moist	60	M	0
				Dense, light brown, black and white sandy GRAVEL (GW), slightly moist		SM	0
15	X X	B-3-15		Loose black and brown SAND (SW) with some gravel, wet	50	W	0
20							
25							

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-4
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 24'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				2 inches of asphalt	60		
				Medium-stiff light brown SILT (ML), slightly moist		SM	0
5					70		
				Soft, moist		M	0
10					50		0
				Medium-dense, light gray and brown sandy GRAVEL (GW), slightly moist		SM	
15	X X	B-4-15		Wet	40	W	0
20				Sandier with depth	40	W	0
25							

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-5
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 24'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				3 inches of asphalt	100		
				Medium-stiff light brown SILT (ML), slightly moist		SM	0
5				Moist	100	M	
				Soft, very moist		VM	0
10					60		0
				Medium-dense, light gray and brown sandy GRAVEL (GW), slightly moist		SM	
15	X X	B-5-15		Loose, wet	50	W	0
20				Boring refused at 24'			
				Well constructed, no water			
25							

Project: Neighbors Conoco	Project Number: CB081023A	Client: Eternal Hotels et al	Boring No. B-6
Address, City, State 780 Stevens Drive, Richland, WA		Drilling Contractor: B&W Standard	Drill Rig Type: Geoprobe 6600
Logged By: Carrie Beveridge	Started: 8/29/2023	Bit Type: Direct-push	Diameter: 2¼ inch
Drill Crew: Russel Vaughan	Completed: 8/29/2023	Core Length: 5 feet	
Locate Ticket Number: 23341107	Backfilled: Bentonite	Groundwater Depth: 15'	Total Depth of Boring: 24'

Depth (feet)	Sample Interval	Sample ID	Graphic Log	Color/Soil Description/USCS Soil Classification	Recovery (%)	Moisture	PID (ppm)
				3 inches of asphalt	30		
				Medium-stiff brown gravelly silt FILL, moist		M	0
5				Soft light brown SILT (ML), moist	20	M	0
				Soft, very moist		VM	0
10				Hard drilling Dense, brown and white sandy GRAVEL (GW), dry	60	D	0
15	X X	B-6-15		Loose, medium-dense, black and brown, wet	60	W	0
20				Boring refused at 24'			
				Well constructed, no water			
25							

Appendix B – Laboratory Analytical Report

780 Stevens Drive, Richland, Washington 99352

September 2023

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Tuesday, September 12, 2023

Carrie Beveridge
GEM
P.O. Box 2212
Sisters, OR 97759

RE: A3H1536 - 780 Stevens - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3H1536, which was received by the laboratory on 8/31/2023 at 7:43:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 5.1 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC
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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-15	A3H1536-01	Soil	08/29/23 14:23	08/31/23 07:43
B-2-15	A3H1536-02	Soil	08/29/23 15:46	08/31/23 07:43
B-2-GW	A3H1536-03	Water	08/29/23 16:11	08/31/23 07:43
B-3-15	A3H1536-04	Soil	08/29/23 17:00	08/31/23 07:43
B-4-15	A3H1536-05	Soil	08/30/23 09:30	08/31/23 07:43
B-4-GW	A3H1536-06	Water	08/30/23 10:00	08/31/23 07:43
B-5-15	A3H1536-07	Soil	08/30/23 10:15	08/31/23 07:43
B-6-15	A3H1536-08	Soil	08/30/23 12:05	08/31/23 07:43

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-1-15 (A3H1536-01)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	11.6	23.3	mg/kg dry	1	09/07/23 19:17	NWTPH-Dx	
Oil	**107**	23.3	46.6	mg/kg dry	1	09/07/23 19:17	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*	*1*	*09/07/23 19:17*	*NWTPH-Dx*	
B-2-15 (A3H1536-02)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	11.3	22.6	mg/kg dry	1	09/07/23 20:40	NWTPH-Dx	
Oil	ND	22.6	45.1	mg/kg dry	1	09/07/23 20:40	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 100 %*		*Limits: 50-150 %*	*1*	*09/07/23 20:40*	*NWTPH-Dx*	
B-2-GW (A3H1536-03)				**Matrix: Water**		**Batch: 23I0162**		
Diesel	ND	0.118	0.235	mg/L	1	09/08/23 01:57	NWTPH-Dx	
Oil	ND	0.235	0.471	mg/L	1	09/08/23 01:57	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 84 %*		*Limits: 50-150 %*	*1*	*09/08/23 01:57*	*NWTPH-Dx*	
B-3-15 (A3H1536-04)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	11.2	22.3	mg/kg dry	1	09/07/23 21:01	NWTPH-Dx	
Oil	ND	22.3	44.7	mg/kg dry	1	09/07/23 21:01	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 100 %*		*Limits: 50-150 %*	*1*	*09/07/23 21:01*	*NWTPH-Dx*	
B-4-15 (A3H1536-05)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	11.1	22.2	mg/kg dry	1	09/07/23 21:21	NWTPH-Dx	
Oil	ND	22.2	44.4	mg/kg dry	1	09/07/23 21:21	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 103 %*		*Limits: 50-150 %*	*1*	*09/07/23 21:21*	*NWTPH-Dx*	
B-4-GW (A3H1536-06)				**Matrix: Water**		**Batch: 23I0162**		
Diesel	ND	0.118	0.235	mg/L	1	09/08/23 02:20	NWTPH-Dx	
Oil	ND	0.235	0.471	mg/L	1	09/08/23 02:20	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 80 %*		*Limits: 50-150 %*	*1*	*09/08/23 02:20*	*NWTPH-Dx*	
B-5-15 (A3H1536-07)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	10.2	20.4	mg/kg dry	1	09/07/23 21:42	NWTPH-Dx	
Oil	**31.3**	20.4	40.7	mg/kg dry	1	09/07/23 21:42	NWTPH-Dx	**J**
Surrogate: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*	*1*	*09/07/23 21:42*	*NWTPH-Dx*	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6-15 (A3H1536-08RE1)				**Matrix: Soil**		**Batch: 23I0158**		
Diesel	ND	21.0	42.1	mg/kg dry	2	09/08/23 10:35	NWTPH-Dx	
Oil	**242**	42.1	84.2	mg/kg dry	2	09/08/23 10:35	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 71 %*		*Limits: 50-150 %*	*2*	*09/08/23 10:35*	*NWTPH-Dx*	*S-05*

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ANALYTICAL REPORT

GEM	Project: 780 Stevens	
P.O. Box 2212	Project Number: [none]	Report ID:
Sisters, OR 97759	Project Manager: Carrie Beveridge	A3H1536 - 09 12 23 1251

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-1-15 (A3H1536-01)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	2.87	5.75	mg/kg dry	50	08/31/23 15:28	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*	*1*	*08/31/23 15:28*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*08/31/23 15:28*	*NWTPH-Gx (MS)*	
B-2-15 (A3H1536-02)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	2.37	4.74	mg/kg dry	50	08/31/23 16:19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 96 %*		*Limits: 50-150 %*	*1*	*08/31/23 16:19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*08/31/23 16:19*	*NWTPH-Gx (MS)*	
B-2-GW (A3H1536-03)				**Matrix: Water**		**Batch: 23H1153**		
Gasoline Range Organics	**0.0819**	0.0500	0.100	mg/L	1	08/31/23 12:51	NWTPH-Gx (MS)	**J**
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 91 %*		*Limits: 50-150 %*	*1*	*08/31/23 12:51*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*	*1*	*08/31/23 12:51*	*NWTPH-Gx (MS)*	
B-3-15 (A3H1536-04)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	2.45	4.90	mg/kg dry	50	08/31/23 16:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 96 %*		*Limits: 50-150 %*	*1*	*08/31/23 16:45*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*111 %*	*50-150 %*	*1*	*08/31/23 16:45*	*NWTPH-Gx (MS)*	
B-4-15 (A3H1536-05)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	2.07	4.13	mg/kg dry	50	08/31/23 17:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 95 %*		*Limits: 50-150 %*	*1*	*08/31/23 17:10*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*08/31/23 17:10*	*NWTPH-Gx (MS)*	
B-4-GW (A3H1536-06)				**Matrix: Water**		**Batch: 23H1153**		
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	08/31/23 13:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 90 %*		*Limits: 50-150 %*	*1*	*08/31/23 13:14*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*08/31/23 13:14*	*NWTPH-Gx (MS)*	
B-5-15 (A3H1536-07)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	1.08	2.16	mg/kg dry	50	08/31/23 17:36	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*		*Limits: 50-150 %*	*1*	*08/31/23 17:36*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*113 %*	*50-150 %*	*1*	*08/31/23 17:36*	*NWTPH-Gx (MS)*	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-6-15 (A3H1536-08)				**Matrix: Soil**		**Batch: 23H1168**		
Gasoline Range Organics	ND	1.86	3.72	mg/kg dry	50	08/31/23 18:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*08/31/23 18:02*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*111 %*	*50-150 %*	*1*	*08/31/23 18:02*	*NWTPH-Gx (MS)*	

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ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-1-15 (A3H1536-01)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	5.75	11.5	ug/kg dry	50	08/31/23 15:28	5035A/8260D	
Toluene	ND	28.7	57.5	ug/kg dry	50	08/31/23 15:28	5035A/8260D	
Ethylbenzene	ND	14.4	28.7	ug/kg dry	50	08/31/23 15:28	5035A/8260D	
Xylenes, total	ND	43.1	86.2	ug/kg dry	50	08/31/23 15:28	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*08/31/23 15:28*	*5035A/8260D*	
Toluene-d8 (Surr)			*108 %*	*80-120 %*	*1*	*08/31/23 15:28*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*08/31/23 15:28*	*5035A/8260D*	
B-2-15 (A3H1536-02)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	4.74	9.48	ug/kg dry	50	08/31/23 16:19	5035A/8260D	
Toluene	ND	23.7	47.4	ug/kg dry	50	08/31/23 16:19	5035A/8260D	
Ethylbenzene	ND	11.9	23.7	ug/kg dry	50	08/31/23 16:19	5035A/8260D	
Xylenes, total	ND	35.6	71.1	ug/kg dry	50	08/31/23 16:19	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*08/31/23 16:19*	*5035A/8260D*	
Toluene-d8 (Surr)			*105 %*	*80-120 %*	*1*	*08/31/23 16:19*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*08/31/23 16:19*	*5035A/8260D*	
B-3-15 (A3H1536-04)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	4.90	9.79	ug/kg dry	50	08/31/23 16:45	5035A/8260D	
Toluene	ND	24.5	49.0	ug/kg dry	50	08/31/23 16:45	5035A/8260D	
Ethylbenzene	ND	12.2	24.5	ug/kg dry	50	08/31/23 16:45	5035A/8260D	
Xylenes, total	ND	36.7	73.5	ug/kg dry	50	08/31/23 16:45	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*08/31/23 16:45*	*5035A/8260D*	
Toluene-d8 (Surr)			*106 %*	*80-120 %*	*1*	*08/31/23 16:45*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*08/31/23 16:45*	*5035A/8260D*	
B-4-15 (A3H1536-05)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	4.13	8.27	ug/kg dry	50	08/31/23 17:10	5035A/8260D	
Toluene	ND	20.7	41.3	ug/kg dry	50	08/31/23 17:10	5035A/8260D	
Ethylbenzene	ND	10.3	20.7	ug/kg dry	50	08/31/23 17:10	5035A/8260D	
Xylenes, total	ND	31.0	62.0	ug/kg dry	50	08/31/23 17:10	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*08/31/23 17:10*	*5035A/8260D*	
Toluene-d8 (Surr)			*107 %*	*80-120 %*	*1*	*08/31/23 17:10*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*08/31/23 17:10*	*5035A/8260D*	

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ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-5-15 (A3H1536-07)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	2.16	4.33	ug/kg dry	50	08/31/23 17:36	5035A/8260D	
Toluene	ND	10.8	21.6	ug/kg dry	50	08/31/23 17:36	5035A/8260D	
Ethylbenzene	ND	5.41	10.8	ug/kg dry	50	08/31/23 17:36	5035A/8260D	
Xylenes, total	ND	16.2	32.5	ug/kg dry	50	08/31/23 17:36	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*98 %*	*Limits: 80-120 %*	*1*	*08/31/23 17:36*	*5035A/8260D*	
Toluene-d8 (Surr)			*106 %*	*80-120 %*	*1*	*08/31/23 17:36*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*08/31/23 17:36*	*5035A/8260D*	
B-6-15 (A3H1536-08)				**Matrix: Soil**		**Batch: 23H1168**		
Benzene	ND	3.72	7.44	ug/kg dry	50	08/31/23 18:02	5035A/8260D	
Toluene	ND	18.6	37.2	ug/kg dry	50	08/31/23 18:02	5035A/8260D	
Ethylbenzene	ND	9.31	18.6	ug/kg dry	50	08/31/23 18:02	5035A/8260D	
Xylenes, total	ND	27.9	55.8	ug/kg dry	50	08/31/23 18:02	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*08/31/23 18:02*	*5035A/8260D*	
Toluene-d8 (Surr)			*108 %*	*80-120 %*	*1*	*08/31/23 18:02*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*95 %*	*79-120 %*	*1*	*08/31/23 18:02*	*5035A/8260D*	

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-2-GW (A3H1536-03)				**Matrix: Water**		**Batch: 23H1153**		
Acetone	ND	10.0	20.0	ug/L	1	08/31/23 12:51	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	08/31/23 12:51	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/31/23 12:51	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/31/23 12:51	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-2-GW (A3H1536-03)				**Matrix: Water**		**Batch: 23H1153**		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/31/23 12:51	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/31/23 12:51	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	08/31/23 12:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	08/31/23 12:51	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Tetrachloroethene (PCE)	**18.9**	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/31/23 12:51	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	08/31/23 12:51	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	08/31/23 12:51	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	08/31/23 12:51	EPA 8260D	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-2-GW (A3H1536-03)				**Matrix: Water**		**Batch: 23H1153**		
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	*1*	*08/31/23 12:51*	*EPA 8260D*	
Toluene-d8 (Surr)			*105 %*	*80-120 %*	*1*	*08/31/23 12:51*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*08/31/23 12:51*	*EPA 8260D*	
B-4-GW (A3H1536-06)				**Matrix: Water**		**Batch: 23H1153**		
Acetone	ND	10.0	20.0	ug/L	1	08/31/23 13:14	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	08/31/23 13:14	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/31/23 13:14	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/31/23 13:14	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4-GW (A3H1536-06)				**Matrix: Water**		**Batch: 23H1153**		
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/31/23 13:14	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/31/23 13:14	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	08/31/23 13:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	08/31/23 13:14	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Tetrachloroethene (PCE)	**1.00**	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/31/23 13:14	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-4-GW (A3H1536-06)				**Matrix: Water**		**Batch: 23H1153**		
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	08/31/23 13:14	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	08/31/23 13:14	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	08/31/23 13:14	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*08/31/23 13:14*	*EPA 8260D*	
Toluene-d8 (Surr)			*105 %*	*80-120 %*	*1*	*08/31/23 13:14*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*08/31/23 13:14*	*EPA 8260D*	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: 780 Stevens	
P.O. Box 2212	Project Number: [none]	Report ID:
Sisters, OR 97759	Project Manager: Carrie Beveridge	A3H1536 - 09 12 23 1251

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B-1-15 (A3H1536-01)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**84.6**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	
B-2-15 (A3H1536-02)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**83.2**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	
B-3-15 (A3H1536-04)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**83.2**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	
B-4-15 (A3H1536-05)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**86.6**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	
B-5-15 (A3H1536-07)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**90.6**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	
B-6-15 (A3H1536-08)				**Matrix: Soil**		**Batch: 23H1163**		
% Solids	**88.4**	1.00	1.00	%	1	09/01/23 06:46	EPA 8000D	

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ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: 780 Stevens	
P.O. Box 2212	Project Number: [none]	Report ID:
Sisters, OR 97759	Project Manager: Carrie Beveridge	A3H1536 - 09 12 23 1251

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0158 - EPA 3546 (Fuels)							**Soil**					
Blank (23I0158-BLK1)			Prepared: 09/07/23 04:07		Analyzed: 09/07/23 07:44							
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	20.0	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 80 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS (23I0158-BS1)			Prepared: 09/07/23 04:07		Analyzed: 09/07/23 08:04							
NWTPH-Dx												
Diesel	116	10.0	20.0	mg/kg wet	1	125	---	93	38-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 86 %*		*Limits: 50-150 %*		*Dilution: 1x*					
Duplicate (23I0158-DUP1)			Prepared: 09/07/23 04:07		Analyzed: 09/07/23 08:45							
QC Source Sample: Non-SDG (A3I0821-02RE1)												
Diesel	**6650**	192	385	mg/kg wet	20	---	6640	---	---	0.1	30%	
Oil	ND	385	769	mg/kg wet	20	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)			*Recovery: %*		*Limits: 50-150 %*		*Dilution: 20x*					*S-01*
Duplicate (23I0158-DUP2)			Prepared: 09/07/23 08:39		Analyzed: 09/07/23 19:59							
QC Source Sample: B-1-15 (A3H1536-01)												
NWTPH-Dx												
Diesel	ND	11.5	23.1	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	**117**	23.1	46.2	mg/kg dry	1	---	107	---	---	9	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 98 %*		*Limits: 50-150 %*		*Dilution: 1x*					
Batch 23I0162 - EPA 3510C (Fuels/Acid Ext.)							**Water**					
Blank (23I0162-BLK1)			Prepared: 09/07/23 12:43		Analyzed: 09/08/23 00:24							
NWTPH-Dx												
Diesel	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---	
Oil	ND	0.200	0.400	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 80 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS (23I0162-BS1)			Prepared: 09/07/23 12:43		Analyzed: 09/08/23 00:47							
NWTPH-Dx												

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0162 - EPA 3510C (Fuels/Acid Ext.)								**Water**				
LCS (23I0162-BS1)			Prepared: 09/07/23 12:43		Analyzed: 09/08/23 00:47							
Diesel	1.04	0.100	0.200	mg/L	1	1.25	---	83	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 89 %*		*Limits: 50-150 %*			*Dilution: 1x*				
LCS Dup (23I0162-BSD1)			Prepared: 09/07/23 12:43		Analyzed: 09/08/23 01:10							**Q-19**
NWTPH-Dx												
Diesel	1.06	0.100	0.200	mg/L	1	1.25	---	85	36-132%	2	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 86 %*		*Limits: 50-150 %*			*Dilution: 1x*				

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Philip Nerenberg

Philip Nerenberg, Lab Director

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C									Water			
Blank (23H1153-BLK1)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 12:28						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 89 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*107 %*	*50-150 %*			*"*					
LCS (23H1153-BS2)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 12:05						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.522	0.0500	0.100	mg/L	1	0.500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*105 %*	*50-150 %*			*"*					
Duplicate (23H1153-DUP1)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 17:03						
QC Source Sample: Non-SDG (A3H1511-01)												
Gasoline Range Organics	ND	0.500	1.00	mg/L	10	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 90 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*			*"*					
Duplicate (23H1153-DUP2)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 22:24						
QC Source Sample: Non-SDG (A3H1551-04)												
Gasoline Range Organics	**4.35**	0.500	1.00	mg/L	10	---	4.22	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 91 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*107 %*	*50-150 %*			*"*					

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1168 - EPA 5035A							**Soil**					
Blank (23H1168-BLK1)			Prepared: 08/31/23 12:00 Analyzed: 08/31/23 15:03									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.50	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 90 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*			*"*					
LCS (23H1168-BS2)			Prepared: 08/31/23 12:00 Analyzed: 08/31/23 14:31									
NWTPH-Gx (MS)												
Gasoline Range Organics	26.3	2.50	5.00	mg/kg wet	50	25.0	---	105	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 93 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*107 %*	*50-150 %*			*"*					
Duplicate (23H1168-DUP1)			Prepared: 08/29/23 14:23 Analyzed: 08/31/23 15:53									
QC Source Sample: B-1-15 (A3H1536-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.87	5.75	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 92 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*			*"*					
Duplicate (23H1168-DUP2)			Prepared: 08/29/23 10:15 Analyzed: 08/31/23 19:20									
QC Source Sample: Non-SDG (A3H1537-01)												
Gasoline Range Organics	ND	2.19	4.38	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 90 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*111 %*	*50-150 %*			*"*					

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1168 - EPA 5035A							**Soil**					
Blank (23H1168-BLK1)			Prepared: 08/31/23 12:00 Analyzed: 08/31/23 15:03									
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	37.5	75.0	ug/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 95 %*	*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*109 %*	*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)			*95 %*	*79-120 %*			*"*					
LCS (23H1168-BS1)			Prepared: 08/31/23 12:00 Analyzed: 08/31/23 14:06									
5035A/8260D												
Benzene	1050	5.00	10.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Toluene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Ethylbenzene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Xylenes, total	3150	37.5	75.0	ug/kg wet	50	3000	---	105	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*102 %*	*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)			*95 %*	*79-120 %*			*"*					
Duplicate (23H1168-DUP1)			Prepared: 08/29/23 14:23 Analyzed: 08/31/23 15:53									
QC Source Sample: B-1-15 (A3H1536-01)												
5035A/8260D												
Benzene	ND	5.75	11.5	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	28.7	57.5	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	14.4	28.7	ug/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	43.1	86.2	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*107 %*	*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*			*"*					
Duplicate (23H1168-DUP2)			Prepared: 08/29/23 10:15 Analyzed: 08/31/23 19:20									
QC Source Sample: Non-SDG (A3H1537-01)												
Benzene	ND	4.38	8.77	ug/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1168 - EPA 5035A							**Soil**					
Duplicate (23H1168-DUP2)			Prepared: 08/29/23 10:15 Analyzed: 08/31/23 19:20									
QC Source Sample: Non-SDG (A3H1537-01)												
Toluene	ND	21.9	43.8	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	11.0	21.9	ug/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	32.9	65.8	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*		*Limits: 80-120 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*110 %*		*80-120 %*		*"*					
4-Bromofluorobenzene (Surr)			*93 %*		*79-120 %*		*"*					
Matrix Spike (23H1168-MS1)			Prepared: 08/29/23 13:20 Analyzed: 08/31/23 22:24									
QC Source Sample: Non-SDG (A3H1537-07)												
5035A/8260D												
Benzene	1150	5.15	10.3	ug/kg dry	50	1030	ND	112	77-121%	---	---	
Toluene	1230	25.7	51.5	ug/kg dry	50	1030	ND	119	77-121%	---	---	
Ethylbenzene	1190	12.9	25.7	ug/kg dry	50	1030	ND	115	76-122%	---	---	
Xylenes, total	3490	38.6	77.2	ug/kg dry	50	3090	ND	113	78-124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 93 %*		*Limits: 80-120 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*110 %*		*80-120 %*		*"*					
4-Bromofluorobenzene (Surr)			*90 %*		*79-120 %*		*"*					

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C												**Water**
Blank (23H1153-BLK1)			Prepared: 08/31/23 09:34		Analyzed: 08/31/23 12:28							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Blank (23H1153-BLK1)			Prepared: 08/31/23 09:34		Analyzed: 08/31/23 12:28							
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) *Recovery: 95 %* *Limits: 80-120 %* *Dilution: 1x*

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C									**Water**			
Blank (23H1153-BLK1)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 12:28						
Surr: Toluene-d8 (Surr)			*Recovery: 105 %*	*Limits: 80-120 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*			*"*					
LCS (23H1153-BS1)				Prepared: 08/31/23 09:34		Analyzed: 08/31/23 11:34						
EPA 8260D												
Acetone	38.3	10.0	20.0	ug/L	1	40.0	---	96	80-120%	---	---	
Acrylonitrile	17.5	1.00	2.00	ug/L	1	20.0	---	88	80-120%	---	---	
Benzene	18.3	0.100	0.200	ug/L	1	20.0	---	91	80-120%	---	---	
Bromobenzene	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Bromochloromethane	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromodichloromethane	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Bromoform	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromomethane	18.6	5.00	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Butanone (MEK)	34.9	5.00	10.0	ug/L	1	40.0	---	87	80-120%	---	---	
n-Butylbenzene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
sec-Butylbenzene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
tert-Butylbenzene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Carbon disulfide	19.9	5.00	10.0	ug/L	1	20.0	---	100	80-120%	---	---	
Carbon tetrachloride	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Chloroethane	21.1	5.00	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
Chloroform	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	15.5	5.00	5.00	ug/L	1	20.0	---	**78**	**80-120%**	---	---	Q-55
2-Chlorotoluene	19.5	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
4-Chlorotoluene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Dibromochloromethane	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.5	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,4-Dichlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Dichlorodifluoromethane	15.1	1.00	1.00	ug/L	1	20.0	---	**75**	**80-120%**	---	---	Q-55
1,1-Dichloroethane	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	

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Philip Nerenberg, Lab Director

APEX LABORATORIES

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
LCS (23H1153-BS1)			Prepared: 08/31/23 09:34		Analyzed: 08/31/23 11:34							
1,2-Dichloroethane (EDC)	21.9	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	19.1	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
trans-1,2-Dichloroethene	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
1,3-Dichloropropane	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,1-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
cis-1,3-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
trans-1,3-Dichloropropene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Ethylbenzene	20.5	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Hexachlorobutadiene	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Hexanone	33.2	5.00	10.0	ug/L	1	40.0	---	83	80-120%	---	---	
Isopropylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
4-Isopropyltoluene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Methylene chloride	20.0	5.00	10.0	ug/L	1	20.0	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	37.8	5.00	10.0	ug/L	1	40.0	---	95	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Naphthalene	17.2	2.00	4.00	ug/L	1	20.0	---	86	80-120%	---	---	
n-Propylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.1	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Tetrachloroethene (PCE)	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,3-Trichlorobenzene	18.0	1.00	2.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,4-Trichlorobenzene	17.8	1.00	2.00	ug/L	1	20.0	---	89	80-120%	---	---	
1,1,1-Trichloroethane	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1,2-Trichloroethane	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	18.4	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
Trichlorofluoromethane	21.5	1.00	2.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2,3-Trichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trimethylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C									**Water**			
LCS (23H1153-BS1)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 11:34									
Vinyl chloride	16.7	0.100	0.200	ug/L	1	20.0	---	84	80-120%	---	---	
m,p-Xylene	42.4	0.500	1.00	ug/L	1	40.0	---	106	80-120%	---	---	
o-Xylene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 95 %*		*Limits: 80-120 %*				*Dilution: 1x*			
Toluene-d8 (Surr)			*102 %*		*80-120 %*				*"*			
4-Bromofluorobenzene (Surr)			*93 %*		*80-120 %*				*"*			
Duplicate (23H1153-DUP1)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 17:03									
QC Source Sample: Non-SDG (A3H1511-01)												
Acetone	ND	100	200	ug/L	10	---	ND	---	---	---	30%	
Acrylonitrile	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
Bromobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Bromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromoform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromomethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Carbon disulfide	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Chloroethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Chloroform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chloromethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dibromomethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Duplicate (23H1153-DUP1)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 17:03									
QC Source Sample: Non-SDG (A3H1511-01)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	10.0	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	20.0	40.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Duplicate (23H1153-DUP1)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 17:03									
QC Source Sample: Non-SDG (A3H1511-01)												
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)			*105 %*	*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*			*"*					
Duplicate (23H1153-DUP2)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 22:24									
QC Source Sample: Non-SDG (A3H1551-04)												
Acetone	ND	200	200	ug/L	10	---	ND	---	---	---	30%	
Acrylonitrile	ND	70.0	70.0	ug/L	10	---	ND	---	---	---	30%	R-02
Benzene	**6.50**	1.00	2.00	ug/L	10	---	6.30	---	---	3	30%	
Bromobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Bromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromoform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Bromomethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
sec-Butylbenzene	**6.90**	5.00	10.0	ug/L	10	---	5.80	---	---	17	30%	J
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Carbon disulfide	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Chloroethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Chloroform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Chloromethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Duplicate (23H1153-DUP2)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 22:24									
QC Source Sample: Non-SDG (A3H1551-04)												
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dibromomethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	10.0	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	**183**	2.50	5.00	ug/L	10	---	177	---	---	3	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	**15.3**	5.00	10.0	ug/L	10	---	14.9	---	---	3	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	**28.7**	20.0	40.0	ug/L	10	---	28.8	---	---	0.3	30%	J
n-Propylbenzene	**67.3**	2.50	5.00	ug/L	10	---	65.9	---	---	2	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Duplicate (23H1153-DUP2)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 22:24									
QC Source Sample: Non-SDG (A3H1551-04)												
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	**254**	5.00	10.0	ug/L	10	---	245	---	---	3	30%	
1,3,5-Trimethylbenzene	**18.1**	5.00	10.0	ug/L	10	---	17.4	---	---	4	30%	
Vinyl chloride	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	**126**	5.00	10.0	ug/L	10	---	120	---	---	5	30%	
o-Xylene	**7.10**	2.50	5.00	ug/L	10	---	6.80	---	---	4	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 99 %*		*Limits: 80-120 %*				*Dilution: 1x*			
Toluene-d8 (Surr)			*105 %*		*80-120 %*				*"*			
4-Bromofluorobenzene (Surr)			*96 %*		*80-120 %*				*"*			
Matrix Spike (23H1153-MS1)			Prepared: 08/31/23 09:34 Analyzed: 08/31/23 18:11									
QC Source Sample: Non-SDG (A3H1510-01)												
EPA 8260D												
Acetone	69.6	10.0	20.0	ug/L	1	40.0	29.4	100	39-160%	---	---	
Acrylonitrile	21.0	1.00	2.00	ug/L	1	20.0	ND	105	63-135%	---	---	
Benzene	21.1	0.100	0.200	ug/L	1	20.0	ND	105	79-120%	---	---	
Bromobenzene	19.3	0.250	0.500	ug/L	1	20.0	ND	96	80-120%	---	---	
Bromochloromethane	23.3	0.500	1.00	ug/L	1	20.0	ND	116	78-123%	---	---	
Bromodichloromethane	22.3	0.500	1.00	ug/L	1	20.0	ND	111	79-125%	---	---	
Bromoform	21.7	0.500	1.00	ug/L	1	20.0	ND	109	66-130%	---	---	
Bromomethane	23.8	5.00	5.00	ug/L	1	20.0	ND	119	53-141%	---	---	
2-Butanone (MEK)	44.0	5.00	10.0	ug/L	1	40.0	ND	110	56-143%	---	---	
n-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	75-128%	---	---	
sec-Butylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	77-126%	---	---	
tert-Butylbenzene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	78-124%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Matrix Spike (23H1153-MS1)			Prepared: 08/31/23 09:34		Analyzed: 08/31/23 18:11							
QC Source Sample: Non-SDG (A3H1510-01)												
Carbon disulfide	23.6	5.00	10.0	ug/L	1	20.0	ND	118	64-133%	---	---	
Carbon tetrachloride	23.8	0.500	1.00	ug/L	1	20.0	ND	119	72-136%	---	---	
Chlorobenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	80-120%	---	---	
Chloroethane	27.0	5.00	5.00	ug/L	1	20.0	ND	135	60-138%	---	---	
Chloroform	23.0	0.500	1.00	ug/L	1	20.0	ND	115	79-124%	---	---	
Chloromethane	19.0	5.00	5.00	ug/L	1	20.0	ND	95	50-139%	---	---	Q-54
2-Chlorotoluene	20.9	0.500	1.00	ug/L	1	20.0	ND	105	79-122%	---	---	
4-Chlorotoluene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	78-122%	---	---	
Dibromochloromethane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.5	2.50	5.00	ug/L	1	20.0	ND	93	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.3	0.250	0.500	ug/L	1	20.0	ND	106	77-121%	---	---	
Dibromomethane	21.5	0.500	1.00	ug/L	1	20.0	ND	108	79-123%	---	---	
1,2-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
1,3-Dichlorobenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,4-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	79-120%	---	---	
Dichlorodifluoromethane	18.0	1.00	1.00	ug/L	1	20.0	ND	90	32-152%	---	---	Q-54a
1,1-Dichloroethane	23.5	0.200	0.400	ug/L	1	20.0	ND	117	77-125%	---	---	
1,2-Dichloroethane (EDC)	23.7	0.200	0.400	ug/L	1	20.0	ND	119	73-128%	---	---	
1,1-Dichloroethene	23.4	0.200	0.400	ug/L	1	20.0	ND	117	71-131%	---	---	
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	ND	108	78-123%	---	---	
trans-1,2-Dichloroethene	23.1	0.200	0.400	ug/L	1	20.0	ND	115	75-124%	---	---	
1,2-Dichloropropane	21.6	0.250	0.500	ug/L	1	20.0	ND	108	78-122%	---	---	
1,3-Dichloropropane	21.0	0.500	1.00	ug/L	1	20.0	ND	105	80-120%	---	---	
2,2-Dichloropropane	21.4	0.500	1.00	ug/L	1	20.0	ND	107	60-139%	---	---	
1,1-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	79-125%	---	---	
cis-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	75-124%	---	---	
trans-1,3-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	73-127%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
Hexachlorobutadiene	19.6	2.50	5.00	ug/L	1	20.0	ND	98	66-134%	---	---	
2-Hexanone	38.6	5.00	10.0	ug/L	1	40.0	ND	96	57-139%	---	---	
Isopropylbenzene	22.1	0.500	1.00	ug/L	1	20.0	ND	110	72-131%	---	---	
4-Isopropyltoluene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	77-127%	---	---	
Methylene chloride	20.6	5.00	10.0	ug/L	1	20.0	ND	103	74-124%	---	---	

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Philip Nerenberg, Lab Director

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APEX LABORATORIES

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1153 - EPA 5030C							**Water**					
Matrix Spike (23H1153-MS1)			Prepared: 08/31/23 09:34		Analyzed: 08/31/23 18:11							
QC Source Sample: Non-SDG (A3H1510-01)												
4-Methyl-2-pentanone (MiBK)	41.5	5.00	10.0	ug/L	1	40.0	ND	104	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	20.2	0.500	1.00	ug/L	1	20.0	ND	101	71-124%	---	---	
Naphthalene	18.5	2.00	4.00	ug/L	1	20.0	ND	93	61-128%	---	---	
n-Propylbenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	76-126%	---	---	
Styrene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	78-123%	---	---	
1,1,1,2-Tetrachloroethane	20.4	0.200	0.400	ug/L	1	20.0	ND	102	78-124%	---	---	
1,1,2,2-Tetrachloroethane	21.0	0.250	0.500	ug/L	1	20.0	ND	105	71-121%	---	---	
Tetrachloroethene (PCE)	21.2	0.200	0.400	ug/L	1	20.0	ND	106	74-129%	---	---	
Toluene	21.4	0.500	1.00	ug/L	1	20.0	ND	107	80-121%	---	---	
1,2,3-Trichlorobenzene	18.3	1.00	2.00	ug/L	1	20.0	ND	92	69-129%	---	---	
1,2,4-Trichlorobenzene	18.4	1.00	2.00	ug/L	1	20.0	ND	92	69-130%	---	---	
1,1,1-Trichloroethane	23.4	0.200	0.400	ug/L	1	20.0	ND	117	74-131%	---	---	
1,1,2-Trichloroethane	20.5	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
Trichloroethene (TCE)	20.8	0.200	0.400	ug/L	1	20.0	ND	104	79-123%	---	---	
Trichlorofluoromethane	25.6	1.00	2.00	ug/L	1	20.0	ND	128	65-141%	---	---	
1,2,3-Trichloropropane	20.7	0.500	1.00	ug/L	1	20.0	ND	104	73-122%	---	---	
1,2,4-Trimethylbenzene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	76-124%	---	---	
1,3,5-Trimethylbenzene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	75-124%	---	---	
Vinyl chloride	20.8	0.100	0.200	ug/L	1	20.0	ND	104	58-137%	---	---	
m,p-Xylene	45.6	0.500	1.00	ug/L	1	40.0	ND	114	80-121%	---	---	
o-Xylene	21.1	0.250	0.500	ug/L	1	20.0	ND	106	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 98 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*101 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*92 %*		*80-120 %*			*"*				

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H1163 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23H1163-DUP1)			Prepared: 08/31/23 11:33		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1522-01)												
% Solids	**84.8**	1.00	1.00	%	1	---	87.1	---	---	3	10%	
Duplicate (23H1163-DUP2)			Prepared: 08/31/23 11:33		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1522-02)												
% Solids	**89.3**	1.00	1.00	%	1	---	87.8	---	---	2	10%	
Duplicate (23H1163-DUP3)			Prepared: 08/31/23 11:33		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1522-03)												
% Solids	**92.0**	1.00	1.00	%	1	---	92.5	---	---	0.5	10%	
Duplicate (23H1163-DUP4)			Prepared: 08/31/23 11:33		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1522-04)												
% Solids	**90.4**	1.00	1.00	%	1	---	92.3	---	---	2	10%	
Duplicate (23H1163-DUP5)			Prepared: 08/31/23 19:18		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1545-01)												
% Solids	**76.4**	1.00	1.00	%	1	---	77.2	---	---	1	10%	
Duplicate (23H1163-DUP6)			Prepared: 08/31/23 19:18		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1545-14)												
% Solids	**76.0**	1.00	1.00	%	1	---	74.8	---	---	2	10%	
Duplicate (23H1163-DUP7)			Prepared: 08/31/23 19:18		Analyzed: 09/01/23 06:46							
QC Source Sample: Non-SDG (A3H1567-01)												
% Solids	**77.7**	1.00	1.00	%	1	---	77.4	---	---	0.5	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: 780 Stevens	
P.O. Box 2212	Project Number: [none]	Report ID:
Sisters, OR 97759	Project Manager: Carrie Beveridge	A3H1536 - 09 12 23 1251

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0162							
A3H1536-03	Water	NWTPH-Dx	08/29/23 16:11	09/07/23 12:43	850mL/5mL	1000mL/5mL	1.18
A3H1536-06	Water	NWTPH-Dx	08/30/23 10:00	09/07/23 12:43	850mL/5mL	1000mL/5mL	1.18

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0158							
A3H1536-01	Soil	NWTPH-Dx	08/29/23 14:23	09/07/23 08:39	10.15g/5mL	10g/5mL	0.99
A3H1536-02	Soil	NWTPH-Dx	08/29/23 15:46	09/07/23 08:39	10.65g/5mL	10g/5mL	0.94
A3H1536-04	Soil	NWTPH-Dx	08/29/23 17:00	09/07/23 08:39	10.76g/5mL	10g/5mL	0.93
A3H1536-05	Soil	NWTPH-Dx	08/30/23 09:30	09/07/23 08:39	10.4g/5mL	10g/5mL	0.96
A3H1536-07	Soil	NWTPH-Dx	08/30/23 10:15	09/07/23 08:39	10.84g/5mL	10g/5mL	0.92
A3H1536-08RE1	Soil	NWTPH-Dx	08/30/23 12:05	09/07/23 08:39	10.75g/5mL	10g/5mL	0.93

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H1153							
A3H1536-03	Water	NWTPH-Gx (MS)	08/29/23 16:11	08/31/23 09:35	5mL/5mL	5mL/5mL	1.00
A3H1536-06	Water	NWTPH-Gx (MS)	08/30/23 10:00	08/31/23 09:35	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H1168							
A3H1536-01	Soil	NWTPH-Gx (MS)	08/29/23 14:23	08/29/23 14:23	6.11g/5mL	5g/5mL	0.82
A3H1536-02	Soil	NWTPH-Gx (MS)	08/29/23 15:46	08/29/23 15:46	8.04g/5mL	5g/5mL	0.62
A3H1536-04	Soil	NWTPH-Gx (MS)	08/29/23 17:00	08/29/23 17:00	7.73g/5mL	5g/5mL	0.65
A3H1536-05	Soil	NWTPH-Gx (MS)	08/30/23 09:30	08/30/23 09:30	8.59g/5mL	5g/5mL	0.58
A3H1536-07	Soil	NWTPH-Gx (MS)	08/30/23 10:15	08/30/23 10:15	16.81g/5mL	5g/5mL	0.30
A3H1536-08	Soil	NWTPH-Gx (MS)	08/30/23 12:05	08/30/23 12:05	9.22g/5mL	5g/5mL	0.54

BTEX Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H1168							

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

GEM	Project: 780 Stevens	
P.O. Box 2212	Project Number: [none]	Report ID:
Sisters, OR 97759	Project Manager: Carrie Beveridge	A3H1536 - 09 12 23 1251

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3H1536-01	Soil	5035A/8260D	08/29/23 14:23	08/29/23 14:23	6.11g/5mL	5g/5mL	0.82
A3H1536-02	Soil	5035A/8260D	08/29/23 15:46	08/29/23 15:46	8.04g/5mL	5g/5mL	0.62
A3H1536-04	Soil	5035A/8260D	08/29/23 17:00	08/29/23 17:00	7.73g/5mL	5g/5mL	0.65
A3H1536-05	Soil	5035A/8260D	08/30/23 09:30	08/30/23 09:30	8.59g/5mL	5g/5mL	0.58
A3H1536-07	Soil	5035A/8260D	08/30/23 10:15	08/30/23 10:15	16.81g/5mL	5g/5mL	0.30
A3H1536-08	Soil	5035A/8260D	08/30/23 12:05	08/30/23 12:05	9.22g/5mL	5g/5mL	0.54

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H1153							
A3H1536-03	Water	EPA 8260D	08/29/23 16:11	08/31/23 09:35	5mL/5mL	5mL/5mL	1.00
A3H1536-06	Water	EPA 8260D	08/30/23 10:00	08/31/23 09:35	5mL/5mL	5mL/5mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H1163							
A3H1536-01	Soil	EPA 8000D	08/29/23 14:23	08/31/23 11:33			NA
A3H1536-02	Soil	EPA 8000D	08/29/23 15:46	08/31/23 11:33			NA
A3H1536-04	Soil	EPA 8000D	08/29/23 17:00	08/31/23 11:33			NA
A3H1536-05	Soil	EPA 8000D	08/30/23 09:30	08/31/23 11:33			NA
A3H1536-07	Soil	EPA 8000D	08/30/23 10:15	08/31/23 11:33			NA
A3H1536-08	Soil	EPA 8000D	08/30/23 12:05	08/31/23 11:33			NA

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-54	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
Q-54a	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
Q-55	Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nerenberg, Lab Director

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P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

GEM	Project: **780 Stevens**	
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APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3H1536 COC 1 of 1

Company: GEM — Project Mgr: C Beveridge — Project Name: 780 Stevens — Project #:

Address: — Phone: 5033229825 — Email: cbeveridge@green-em.com — PO #

Sampled by:

Site Location: State WA County Benton

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
B-1-15	8/29	1423	S	3		X	X	X													
B-2-15	8/29	1546	S	3		X	X	X													
B-2 GW	8/29	1611	W	5		X	X	X													
B-3-15	8/29	1700	S	3		X	X	X													
B-4-15	8/30	730	S	3		X	X	X													
B-4 GW	8/30	1000	W	5		X	X	X													
B-5-15	8/30	1015	S	3		X	X	X													
B-6-15	8/30	1205	S	3		X	X	X													

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day, 2 Day, 3 Day, (5 Day — circled), Standard, Other: ________

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 8/31/2023	Signature: [signature] Date: 8/31/23	Signature: Date:	Signature: Date:
Printed Name: Carrie Beveridge Time: 743	Printed Name: [illegible] Time: 743	Printed Name: Time:	Printed Name: Time:
Company: GEM	Company: Apex	Company:	Company:

Form Y-002 R-00

Apex Laboratories, LLC
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ANALYTICAL REPORT

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P.O. Box 2212	Project Number: **[none]**	**Report ID:**
Sisters, OR 97759	Project Manager: **Carrie Beveridge**	**A3H1536 - 09 12 23 1251**

APEX LABS COOLER RECEIPT FORM

Client: GEM Element WO#: A3H1536

Project/Project #: 780 Stevens

Delivery Info:

Date/time received: 8/31/23 @ 743 By: KS

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

Cooler Inspection Date/time inspected: 8/31/23 @ 743 By: KS

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes Y No ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why: ____

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 8-31-23 @ 855 By: DJS

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes DJS 8.31.23 No X Comments: Container Time reads 1050 for B-5-15

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ____

Do VOA vials have visible headspace? Yes X No ___ NA ____

Comments B-4 GW 3/3 HS, 3/3 Sed

Water samples: pH checked: Yes X No___NA___ pH appropriate? Yes X No___NA____

Comments: ____

Additional information: ~~+ZX47 20R 03 9820 4903~~ add 8/31/23

Labeled by: DJS Witness: JS Cooler Inspected by: DJS

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director