

Revised Site Assessment Report

Parcel 500
Cashmere, Washington

for
Chelan Douglas Regional Port Authority

May 20, 2022



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**Revised Site Assessment Report
Parcel 500
Cashmere, Washington**

File No. 24363-002-00

May 20, 2022

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1.0 INTRODUCTION

The Chelan Douglas Regional Port Authority (Port) has retained GeoEngineers, Inc. (GeoEngineers) to conduct additional environmental site assessment activities, estimate the volume and location of wood waste debris and prepare this report (Report) for “Parcel 500” located on Sunset Highway in Cashmere, Washington (herein referred to as the “site”), as shown on Figure 1, Vicinity Map. The approximate 1.49-acre site is currently undeveloped and owned by the Port. GeoEngineers previously worked on the site and the larger former Cashmere Mill project area south of Sunset Highway during remedial investigation activities in 2014 (GeoEngineers 2014).

The purpose of the additional environmental site assessment activities was to further characterize the surface and subgrade conditions with respect to potential contamination (if any), including confirming the lateral extent, depth/thickness and volume of residual wood waste debris. The Port is interested in selling the site property for future redevelopment and will utilize results of this assessment to conduct future construction activities to assist that development. Wood waste debris and/or organic debris mixed with soil will require removal from the central and eastern portions of the site, to prepare the site for re-development, depending on development plans. However, it should be understood that the intent of these environmental assessment activities was to assess remnant wood waste material and/or potential contamination at the site. It is possible that other potentially unsuitable soil from a structural standpoint (such as uncontrolled fill) could be present on the site. Such conditions are not the focus of this assessment. A geotechnical engineer retained by the proposed purchaser/developer should conduct a geotechnical evaluation and provide recommendations for site preparation, mitigation of unsuitable soil (if present), and support of foundations, floor slabs and pavements to meet performance criteria specific to the proposed development.

We understand that RH2, Inc. (RH2) is assisting the Port in site environmental permitting, which is being required by the City of Cashmere (City). In preparation of planned 2022 construction activities, this Report will also be included with RH2’s future construction contract documents and bidding information. The Port is intending to select a contractor to conduct wood waste removal activities. This revised Report has been updated with estimated excavation volumes for planned construction activities at the request of the Port.

2.0 SITE DESCRIPTION, BACKGROUND AND PREVIOUS SITE INVESTIGATIONS

The site is located within a 1.49-acre parcel (Chelan County Assessor Parcel No. 231905110500) in Cashmere, Washington (Figures 1 and 2). The site is bound on the north by Burlington Northern Santa Fe (BNSF) railroad tracks and is approximately 60 feet south of the Wenatchee River. The site adjoins a currently undeveloped Port-owned parcel owned to the east, public land is located west of the site and Sunset Highway is located south of the site. The area south of the Sunset Highway operated as a lumber mill from the 1940s to the late 1970s and for a variety of commercial and light industrial uses thereafter. Activities during mill operations reportedly included manufacturing lumber for fruit boxes. Wood treating activities are not known to have occurred south of the site. A fire in 1990 damaged some mill buildings and a second fire in 2000 destroyed many of the remaining ones. Recently, the Port began to redevelop the properties south of the site and lease those redeveloped properties.

During previous mill operations, low lying areas were filled over several decades with imported fill from various sources, which included wood waste from mill operations. Note: the term “wood waste” as described in this Report generally refers to wood material (often mixed with varying amounts of silt, sand, gravel, cobble and boulders, trash and/or metal debris) generated during mill operations. The wood waste was not commercially valuable and was utilized as fill material at the site. The term “wood waste” does not indicate the material designates as “waste” under Washington State regulations. For the purposes of this Report, wood waste debris or organic debris mixed with soil is defined as greater than 10 percent (by volume) of the drilled material volume collected from each boring (e.g., determination point between known wood materials and ‘clean’ soil without any wood waste or debris).

Previous assessment activities for the area are provided in the Ecology file for the Cashmere Mill site and are summarized in the “Site Characterization Report” (Maul Foster Alongi, March 2013). In 2014, a data gap assessment was performed for the Port-owned parcels south of Sunset Highway and on this site, which included advancing six direct push borings and installing one groundwater monitoring well within the site parcel boundaries (GeoEngineers 2014). Remedial actions conducted on the southern parcels included removal of wood waste material and petroleum- and metals-contaminated soil, which had been identified in several areas (GeoEngineers 2015). Remedial actions were not performed on this site at that time because the previous investigation soil sample analytical results were at concentrations less than the Model Toxics Control Act (MTCA) cleanup levels established by the Washington State Department of Ecology (Ecology). A 2013 groundwater sample collected from MW-1 contained an arsenic concentration greater than the MTCA cleanup level. However, this well is located on the upgradient portion of the site and the cleanup approach at the Cashmere Mill site considered that removal of wood waste would have a positive effect on arsenic concentrations in groundwater.

3.0 ADDITIONAL ENVIRONMENTAL SITE ASSESSMENT

GeoEngineers previously conducted investigation work in select areas of the site. The spatial coverage of those previous explorations was incomplete and additional assessment of the site was recommended before potential property sale activities.

The purpose of the additional environmental site assessment was to assist the Port in further evaluating whether potential contamination is present in the site’s subgrade materials and further evaluate the locations, thickness, and volume of the wood waste debris and/or organic debris mixed with soil.

3.1. Additional Environmental Site Assessment Field Work

On August 26 and 27, 2021, GeoEngineers drilled geoprobe soil borings at 15 locations to further characterize site subsurface conditions as shown on Figure 2, Site Exploration Locations. The soil borings were drilled in accordance with the procedures described in the GeoEngineers sampling and analysis plan (SAP), prepared for the Port under separate cover. Copies of the 2021 boring logs and prior explorations at the site are included in Appendix A.

At least one soil sample per boring was generally collected from soil within or below the wood waste debris. If observed, samples were collected at subsurface depths with the greatest field screening indications of contamination. Select samples were collected within the wood waste and/or organic debris mixed with soil, to understand and characterize the material to be excavated. Total volatile organic compound (VOC)

headspace readings, measured using a handheld photoionization detector (PID), ranged between <1 part per million (ppm) to 164 ppm. A slight sheen was observed in three samples.

Soil samples were selected in the field, placed in laboratory provided containers and submitted to Eurofins TestAmerica (TestAmerica) in Spokane Valley, Washington. Samples were analyzed for the constituents previously detected at the site, which included gasoline-range, diesel-range and oil-range petroleum hydrocarbons (GRPH, DRPH and ORPH, respectively) and three heavy metals (arsenic, lead and mercury). Collected soil samples ranged from about 1 to 8.5 feet deep.

To understand the organic content of the wood waste and/or organic debris mixed with soil, three composited soil samples were submitted to Anatek Laboratories in Spokane, Washington. These samples were submitted to support the Port in determining an appropriate disposal facility for the excavated material, if necessary. Three composite samples comprised of sample groupings B-1 to B-4, B-5 to B-9 and B-11 to B-15 were submitted for total volatile solids (TVS).

One existing groundwater monitoring well (MW-1) was sampled and the water sample was submitted for total arsenic analysis (the only chemical of concern detected previously in groundwater at the site). The MW-1 location is presented in Figure 2. Prior to sampling, depth to groundwater was measured in the well using an electronic water level meter to 0.01-inch accuracy. The water level was recorded prior to and during well purging and upon completion of sample collection. MW-1 was also purged to stabilize water quality parameters prior to sampling. MW-1 was purged using a low-flow bladder pump and water quality parameters monitored using a flow-through cell in accordance with the SAP (GeoEngineers 2021).

Soil cuttings were returned to the boring from which they originated, along with bentonite chips to restore each boring hole. Purge and decontamination water was contained and stored in a nearby Port-owned building, until disposal can be coordinated with a licensed transporter and a facility licensed to receive the water.

3.1.1. Delineation of Wood Waste Debris

Soil boring locations B-1 through B-15, as well as GeoEngineers' previous borings, are depicted on Figure 2. Based on the boring logs, wood waste debris was observed predominately in the central and eastern site portions as shown on Figure 3, Wood Waste Aerial Extents and Thickness. The thickest wood waste debris interval was 3 feet in boring B-4. Wood waste thickness intervals of 0.5-foot or less were observed in multiple borings (B-2, B-3, B-7, B-10, B-11, B-12 and B-14) and was not encountered in seven previous or recent borings. Depth to the wood waste debris generally ranged from 1 foot to 4 feet below ground surface, except boring N-DP-11, where a mixture of soil and wood waste was observed at approximately 10 feet bgs. Cross sections through the site showing estimated wood waste depth and thickness are presented in Figures 4 and 5 (Cross Section A-A' and Cross Section B-B', respectively).

3.1.2. Chemical and Physical Testing Results

Analytical data presented below are summarized in Tables 1 and 2. The final laboratory reports are presented in Appendices B and C. Previous sampling results collected at the site are also presented in Tables 1 and 2 to support the characterization of subsurface conditions.

3.1.2.1. Petroleum Hydrocarbons and Total Metals Soil Sampling Results

Thirteen select soil samples were submitted for laboratory analysis from 11 borings. GRPH, DRPH and ORPH analytes were detected in seven soil samples but the reported concentrations were not greater than the MTCA Method A cleanup levels (CULs) for unrestricted land use (100 milligrams per kilogram [mg/kg], 2,000 mg/kg and 2,000 mg/kg, respectively), nor did the combined total petroleum hydrocarbons (TPH) concentrations in a sample exceed the calculated site MTCA Method B CUL of 3,400 mg/kg (for the Port's parcels located south of the site). TPH analytes were not detected greater than the laboratory reporting limit in the remaining six samples.

The 13 soil samples were also submitted for analysis of arsenic, lead and mercury. Metals concentrations were detected in all 13 soil samples but the reported concentrations were not greater than the respective MTCA Method A CULs. Mercury was only detected in one sample.

3.1.2.2. Groundwater Sampling Results

Arsenic was not detected in the groundwater sample collected in August 2021.

3.1.2.3. Organic Content Testing Results

Samples results indicate total organic content ranged from 2.26 to 2.85 percent in the three composite samples collected.

3.2. Wood Waste Volume Estimate

We estimate the volume of wood waste to be about 2,400 bank cubic yards (BCY), with the thickest amounts of wood waste in the eastern portion of the site. In general, the wood waste is covered with overburden soil fill estimated to be about 1,600 BCY. Therefore, to remove wood waste material from the site, at least 1,600 BCY of overburden soil will require removal. The approximate limits of wood waste are shown on Figures 3, 4 and 5. These quantity estimates are based on the results of our previous and recent additional subsurface explorations at the site.

4.0 SUMMARY AND RECOMMENDATIONS

Subsurface assessment activities conducted in 2021 did not reveal concentrations of petroleum hydrocarbons or metals in soil at concentrations greater than cleanup standards. The groundwater sample collected from MW-1 did contain detectable concentrations of arsenic. In our opinion, there is a low likelihood of encountering contaminated materials at the site; however, our opinion is based on results from a limited number of soil borings and there always is the possibility of the presence of contaminated soil or groundwater beneath the site.

We also estimate about 2,400 BCY of wood waste material is present beneath the site. Most of the wood waste is in shallow overburden fill soil less than 5 feet bgs. There are locations in the eastern portion of the site where wood waste was encountered deeper than 5 feet bgs, including boring N-DP-11 where wood waste was present between 10 and 11 feet bgs. Some wood waste might be deeper than the groundwater table. It shall be noted that a 50-foot offset from eastern property boundary has been established, in order to avoid removing wood waste materials deeper than approximately 6 feet bgs. This revision to the planned excavation area was implemented in order to avoid likely significant dewatering activities, necessary to get the full vertical extent of wood waste at depth. The site aerial extent of wood waste to be removed is now

adjusted to be within the adjusted eastern offset, where the depth of wood waste is anticipated to no greater than approximately 6 feet bgs.

To fully remove the wood waste from the site, we estimate 1,600 BCY of overburden soil fill located above the wood waste must be removed, which can be temporary stockpiled onsite and planned for re-use as part of the excavation backfill. The entire 2,400 BCY of wood waste can be disposed offsite at a landfill or used as fill at other industrial or commercial sites. We do not recommend that the soil be reused as fill at residential locations. The overburden fill soil will be separated from the wood waste and placed back into the excavation to minimize the amount of import soil needed. For more information regarding the planned construction activities to be completed by a Port-selected contractor, refer to the Technical Specifications (GeoEngineers 2022), under separate cover.

We recommend no immediate action with regards to wood waste removal because it does not pose an environmental risk. We understand the Port is interested in the full wood waste removal, in order to make the site 'development' ready by future perspective site purchasers. As part of a cost saving option, we recommend removing overburden soil and wood waste only in locations requiring structural support (i.e., footings and/or other foundation areas) or other infrastructure locations (e.g., stormwater infiltration). This should minimize the time and costs associated with wood waste removal.

5.0 LIMITATIONS

This revised Report has been prepared for use by the Port and the Port's authorized agents and regulatory agencies. This Report can be provided to third parties for informational purposes only. The information contained herein is not intended for use by others, and it is not applicable to other sites. No other (third) party may rely on the product of our services unless we agree in advance and in writing to such reliance. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this Report was prepared. No warranty or other conditions, express or implied, should be understood.

Please refer to the Appendix D, Report Limitations and Guidelines for Use, for additional information pertaining to use of this report.

6.0 REFERENCES

Ecology. 2012. Tacoma Smelter Plume Model Remedies Guidance: Sampling and Cleanup of Arsenic and Lead Contaminated Soils. Toxics Cleanup Program Publication No. 12-09-086-A.

GeoEngineers, Inc. 2014, Data Gap Assessment Report, Former Cashmere Mill Site, Cashmere, Washington. File No. 18593-001-02. May 7, 2014.

GeoEngineers, Inc. 2015. Remedial Action Report, Former Cashmere Mill Site (Phase 2), Cashmere, Washington. File No. 18593-001-04. April 24, 2015.

GeoEngineers, Inc. 2021. Sampling and Analysis Plan, Parcel 500 Additional Assessment, Cashmere, Washington. File No. 24363-002-00. August 25, 2021.

GeoEngineers, Inc. 2022. Technical Specifications, Parcel 500, Cashmere, Washington. File No. 24363-002-00. May 20, 2022.

Maul Foster Alongi, Inc. 2013. Report to Port of Chelan County, Site Characterization Report, former Cashmere Mill Site, Cashmere, Washington, March 20, 2013.

Table 1
Previous and Additional Soil Chemical Analytical Results
Parcel 500
Cashmere, Washington

Location ID			B-1	B-1	B-4	B-4	B-5	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-13	B-14	N-DP-11	N-DP-13	N-DP-24	N-DP-38	N-DP-39	N-DP-51
Sample ID			B-1 (5-6.5)	B-1 (8-8.5)	B-4 (1-2)	B-4 (5-6)	B-5 (5-6)	UP-2021082	B-6 (2.5-3)	B-7 (1-2)	B-8 (1-2)	B-9 (4-5)	B-10 (4-5)	B-11 (4-5)	B-13 (0-1)	B-14 (1-1.25)	N-DP-11 (5-6)	N-DP-13(6-7)	N-DP-24(7-8)	N-DP-38(5-7)	NODP-39(2-3)	N-DP-51(5.5-6)
Sample Date			8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	9/14/2013	9/14/2013	9/14/2013	9/14/2013	9/14/2013	9/14/2013
Start Depth			5	8	1	5	5	5	2.5	1	1	4	4	4	0	1	5	6	7	5	2	5
End Depth			6.5	8.5	2	6	6	6	3	2	2	5	5	5	1	1.25	6	7	8	7	3	6
Depth Unit			ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Analyte	Method A CUL	Units																				
Gasoline-range hydrocarbons	100	mg/Kg	44 U	14 U	9.1 U	7.5 U	6.6 U	7.0 U	9.0 U	5.8 U	5.1 U	7.5 U	17	5.5 U	6.8 U	6.5 U	5.7 U	5.7 U	7.5 U	2.6 U	6.0 U	6.0 U
Diesel-range hydrocarbons	2,000	mg/Kg	180 J	16 U	66 J	11 U	11 U	10 U	24 J	10 U	10 U	10 U	13 J	9.9 U	10 U	15 J	14 UJ	14 U	14 U	14 U	14 U	14 U
Lube oil-range hydrocarbons	2,000	mg/Kg	500	41 U	160	28 U	27 U	26 U	210	26 U	29	25 U	96	49	25 U	26 U	27 UJ	29 U	29 U	27 U	28 U	29 U
Calculated MTCA Method B CUL Total Petroleum Hydrocarbons ¹	3,400	mg/Kg	680	0	226	0	0	0	234	0	29	0	126	49	0	15	0	0	0	0	0	0
Arsenic	20	mg/Kg	13	4.0	11	1.9	3.0	4.1	3.5	3.3	11	2.9	2.2	2.8	5.6	3.6	NA	NA	NA	NA	NA	NA
Lead	250	mg/Kg	44	12	46	2.7 U	2.2 U	2.5 U	17	3.7	45	6.9	2.8	3.2	16	5.3	NA	NA	NA	NA	NA	NA
Mercury	2,000	µg/Kg	96 U	68 U	52 U	59 U	43 U	44 U	49 U	150	50 U	44 U	47 U	46 U	41 U	50 U	NA	NA	NA	NA	NA	NA

Notes:
¹ Total petroleum hydrocarbons calculated as the sum of gasoline-range, diesel-range and heavy oil-range petroleum hydrocarbons for property parcels located south of the site.
MTCA = Model Toxics Control Act
CUL = Cleanup Level
ft = feet
mg/Kg = milligram per kilogram
µg/Kg = microgram per kilogram
U = Analyte was not detected at or greater than the listed reporting limit.
J = Estimated result.
NA = Not analyzed.
Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Table 2
Previous and Additional Groundwater Chemical Analytical Results
Parcel 500
Cashmere, Washington

		Location ID	MW-1	MW-1	MW-1
		Sample ID	MW-1:082721	MW-1:102813	MW-1:120313
		Sample Date	8/27/2021	10/28/2013	12/3/2013
Analyte	MTCA Method A CUL	Units			
Arsenic	0.005	mg/L	0.0050 U	0.017	0.0032

Notes:

MTCA = Model Toxics Control Act

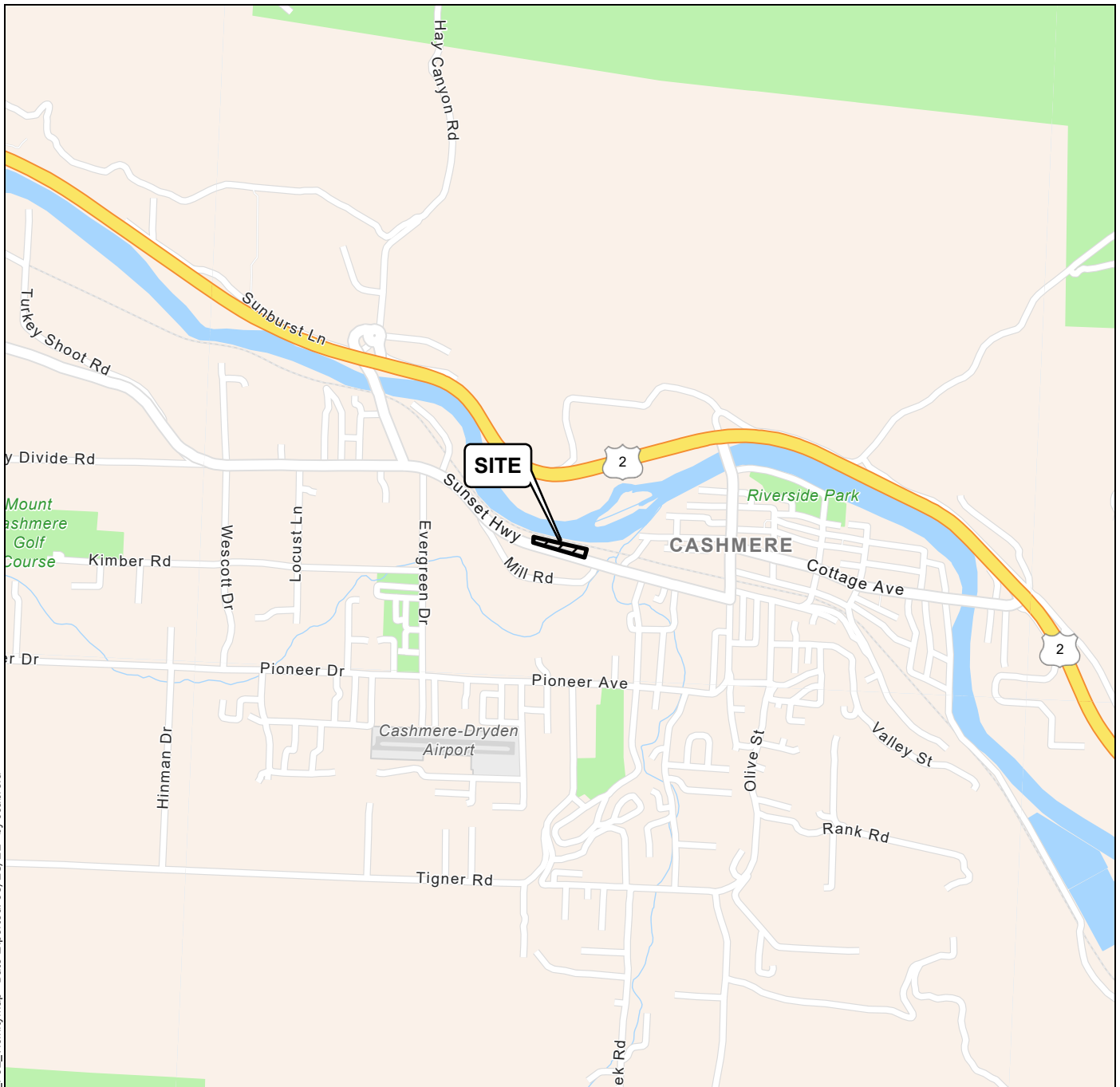
CUL = Cleanup Level

mg/L = milligram per liter

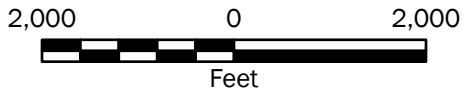
U = Analyte was not detected at or greater than the listed reporting limit.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Grey shading indicates that the detected result exceeds the specified MTCA Cleanup Level.



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Vicinity Map

Parcel 500
Cashmere, Washington



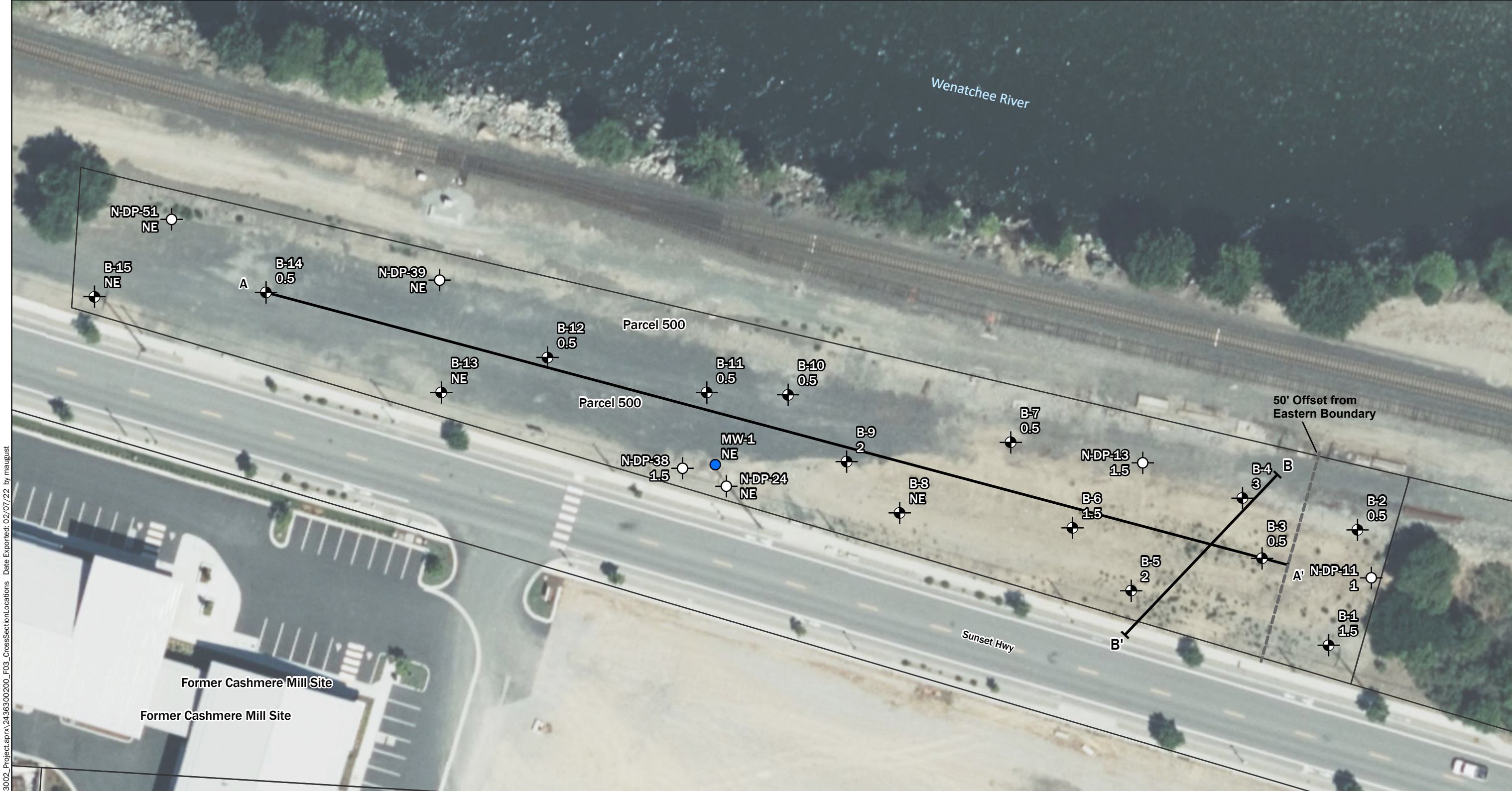
Figure 1

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: ESRI

Projection: NAD 1983 UTM Zone 11N



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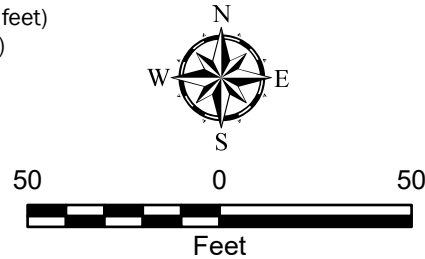
Notes:
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Data Source: Bing Maps Imagery, accessed 2022.

Projection: NAD 1983 UTM Zone 11N

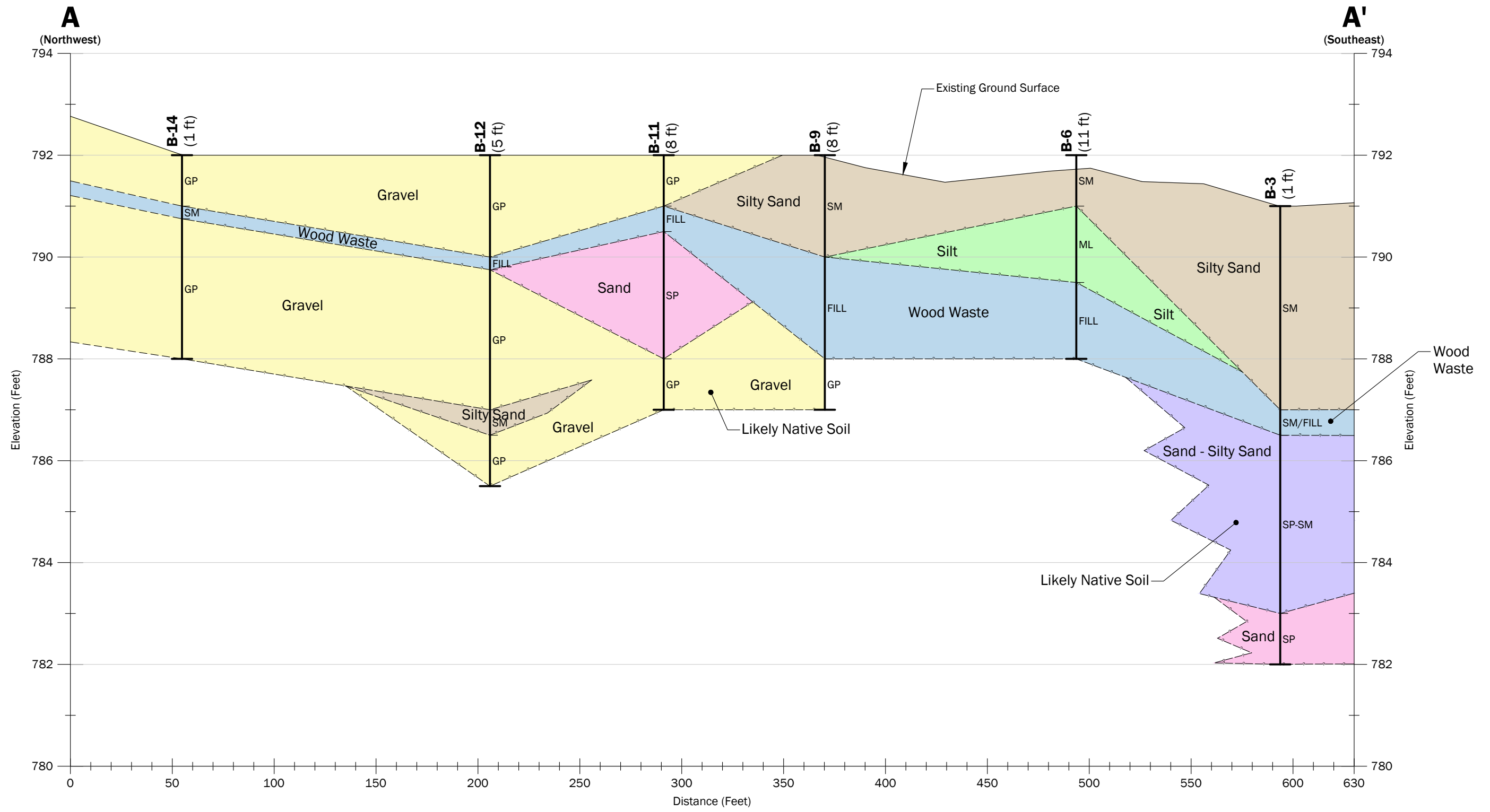
- Legend**
- Previous Direct-Push Exploration ID and Approximate Location
 - 2021 Boring Number and Approximate Location
 - Existing Monitoring Well ID and Approximate Location
 - Cross Section
 - Existing Chelan County Parcel Boundary

Wood Waste Thickness encountered in boring (in feet)
 Depth to top of zone varies between 0.5 to 5 feet
 NE - Not encountered.



Wood Waste Aerial Extents and Thickness	
Parcel 500 Cashmere, Washington	
	Figure 3

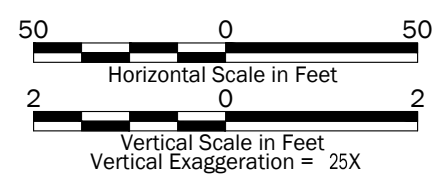
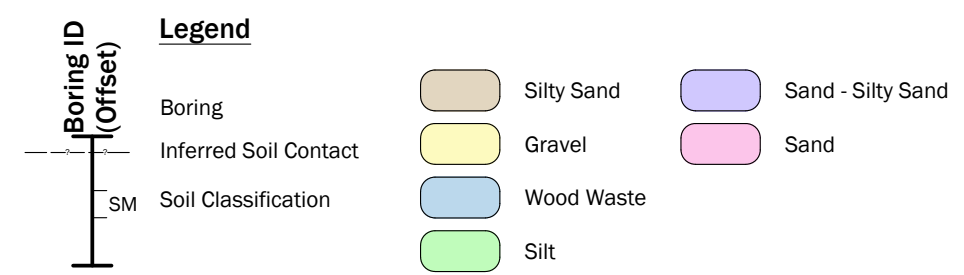
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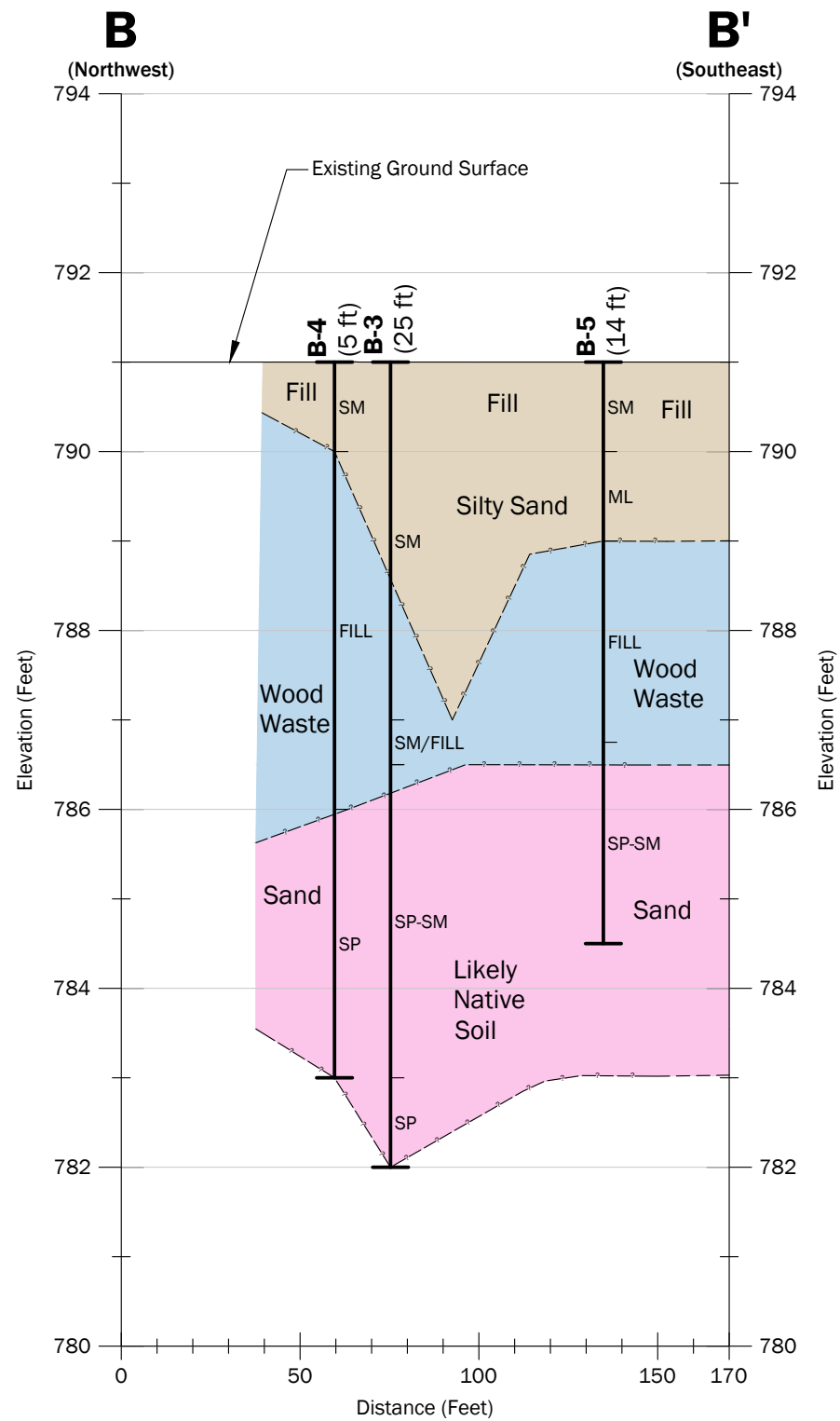
Notes:

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Datum: NAVD 88, unless otherwise noted.



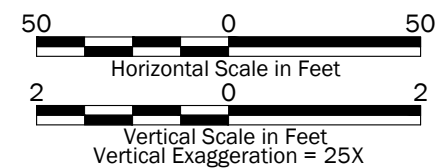
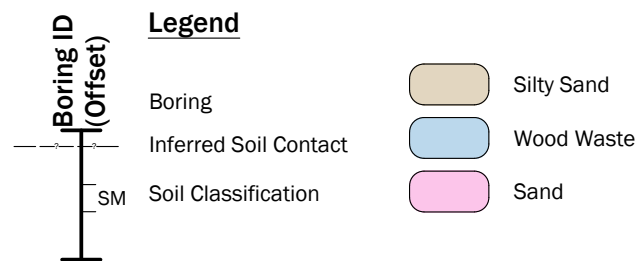
Cross Section A-A'	
Parcel 500 Cashmere, Washington	
	Figure 4



Notes:

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Datum: NAVD 88, unless otherwise noted.



Cross Section B-B'	
Parcel 500 Cashmere, Washington	
	Figure 5

APPENDIX A
Previous and Additional Boring Logs

SOIL CLASSIFICATION CHART

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

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

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

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

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

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

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

ADDITIONAL MATERIAL SYMBOLS

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

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

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

Key to Exploration Logs



Figure A-1

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	11.5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data				Drilling Equipment	GeoProbe 54DT
Easting (X) Northing (Y)	1728268 190463				System Datum	WA State Plane North NAD83 (feet)			See "Remarks" section for groundwater observed	
Notes:										

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0	30					SM	Brown silty fine to medium sand with occasional gravel (loose, moist) (fill)	NS	2.3	
1.90						ML	Gray silt with sand and gravel (medium stiff, moist)	NS	14.3	Wood waste (approximately 25 percent)
5	18					FILL	Dark brown wood waste (90 percent) (moist) (fill)	NS	4.2	
1.85						ML	Gray silt with sand (medium stiff, moist to wet)			
	12				B-1 (8-8.5)	SP-SM	Gray fine to coarse sand with silt and gravel (loose, wet)	NS	2.8	Groundwater observed at approximately 8.3 feet below ground surface during drilling
10										

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

Log of Boring B-1



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-2
Sheet 1 of 1

Date: 9/3/21 Path: P:\24\24363\002\GINT\24363\002\000.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB\ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	5.5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	791 NAVD88				Hammer Data				Drilling Equipment	GeoProbe 54DT
Easting (X) Northing (Y)	1728280 190524				System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration	
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					
0	12					SM	Brown silty fine sand with occasional gravel (loose, moist) (fill)			Wood waste (approximately 15 percent)	
190										Rock in shoe	
	18					FILL	Wood waste (approximately 85 percent)				
				B-2 (4.5-5)		SP-SM	Brown fine sand with silt (medium dense, moist)	NS	<1	Rock in shoe	

Boring terminated at approximately 5½ feet below ground surface due to refusal

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

Date: 9/3/21 Path: P:\24\24363002\GINT\24363002\00.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB\ENVIRONMENTAL_STANDARD_NO_GW

Log of Boring B-2



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-3
Sheet 1 of 1

Start Drilled	8/26/2021	End	8/26/2021	Total Depth (ft)	9	Logged By	JO AP	Checked By	AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	791 NAVD88			Hammer Data				Drilling Equipment	GeoProbe 54DT				
Easting (X) Northing (Y)	1728231 190507			System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	Depth (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	0	24				SM	Brown silty fine sand with occasional gravel (medium dense, moist) (fill)	NS	<1		
190								NS	<1		
	30					SM/FILL	Brown silty fine sand (loose, moist)			Wood waste (approximately .10 percent)	
	5			B-3 (5-6)		SP-SM	Brown fine sand with silt and occasional gravel (medium dense, moist)	NS	<1		
185								NS	<1		
	9					SP	Brown fine to coarse sand with gravel and trace silt (medium dense to dense, moist)				

Boring terminated at approximately 9 feet below ground surface due to refusal

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

Log of Boring B-3



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-4
Sheet 1 of 1

Date: 9/3/21 Path: F:\24\24363\002\GINT\24363\002\000.GPJ DBL:library\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	8/26/2021	End	8/26/2021	Total Depth (ft)	8	Logged By	JO AP	Checked By	AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	791 NAVD88		Hammer Data					Drilling Equipment	GeoProbe 54DT				
Easting (X) Northing (Y)	1728219 190538		System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	Depth (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					
0	0	24				SM	Brown silty fine to coarse sand with occasional gravel (loose, moist) (fill)	NS	<1		
190						FILL	Dark brown wood waste with silt and sand (approximately 75 percent)	NS	1.1		
	30							NS	1.6		
185	5			B-4 (5-6)		SP	Gray fine to coarse sand with occasional gravel (medium dense to dense, moist)	NS	1.1		

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

Log of Boring B-4



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Date: 9/3/21 Path: P:\24\24363002\GINT\24363002000.GPJ DBLlibrary\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	6.5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88			Hammer Data					Drilling Equipment	GeoProbe 54DT
Easting (X) Northing (Y)	1728163 190487			System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration	
Notes:										

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0		22				SM	Brown silty fine to medium sand with occasional gravel (loose, moist) (fill)	NS	1.5	
						ML	Brown sandy silt with occasional gravel (medium stiff, moist) (fill)	NS	1.2	
						FILL	Wood waste (approximately 90 percent)	NS	1	
5		12				SP-SM	Brown fine sand with silt and occasional gravel			

Boring terminated at approximately 6½ feet below ground surface due to refusal on gravel

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

Log of Boring B-5



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-6
Sheet 1 of 1

Date: 9/3/21 Path: P:\24\24363002\GINT\2436300200.GPJ DBLlibrary\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	4	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1728131 190518				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					Group Classification
0	30				B-6 (1-2)		SM	Brown silty fine to medium sand with occasional gravel (loose, moist) (fill)	NS	1.0	
							ML	Brown sandy silt with occasional gravel (stiff, moist) (fill)	NS	1.6	
							FILL	Approximately 3 inches wood waste (approximately 75 percent)	NS	2.6	

Boring terminated at approximately 4 feet below ground surface due to refusal on hard surface

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

Log of Boring B-6



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-7
Sheet 1 of 1

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	4.5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	791 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1728097 190561				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log				
0	24					SP-SM	Gray fine to coarse sand with silt and gravel (medium dense, moist) (fill)	NS	<1	Three attempts, refusal at 3½ feet and 3 feet
12	12			B-7 (1-2)		FILL	Wood waste (approximately 75 percent) with sand and gravel	NS	6.2	
3	3					GP	Grayish brown fine to coarse gravel with sand (dense, moist)	NS	<1	

Boring terminated at approximately 4½ feet below ground surface due to refusal

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

Log of Boring B-7



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-8
Sheet 1 of 1

Date: 9/3/21 Path: F:\24\24363\002\GINT\24363\002\00.GPJ DBL:library\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	2	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data				Drilling Equipment	GeoProbe 54DT
Easting (X) Northing (Y)	1728040 190521				System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration	
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	0	8					SM	Brown silty fine to medium sand with occasional gravel	NS	2.2	Four attempts, refusal at 2 feet, 1½ feet and 1½ feet	
190					B-8 (1-2)							
Boring terminated at approximately 2 feet below ground surface due to refusal												

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

Log of Boring B-8



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-9
Sheet 1 of 1

Drilled	Start 8/26/2021	End 8/26/2021	Total Depth (ft)	5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1728011 190547				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	30					SM	Brown silty fine to medium sand with occasional gravel (medium dense, moist) (fill)	NS	<1		
1.90						FILL	Wood waste (approximately 50 percent) with sand and gravel	NS	1.3		
9				B-9 (4-5)		GP	Brown fine to coarse gravel with sand (dense to very dense, moist)	NS	1.7		
5											

Boring terminated at approximately 5 feet below ground surface due to refusal

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

Log of Boring B-9



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-10
Sheet 1 of 1

Date: 9/3/21 Path: F:\24\24363\002\GINT\24363\002\000.GPJ DBLlibrary\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	6	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data				Drilling Equipment	GeoProbe 54DT
Easting (X) Northing (Y)	1727979 190580				System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration	
Notes:										

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0	30					GP	Gray fine to coarse gravel with sand and trace silt (loose, moist) (fill)		<1	
						SP	Light brown fine sand with trace silt (loose, moist) (fill)	NS	<1	
						FILL	Wood waste (approximately 80 percent)	SS	21.5	
				B-10 (2-2.5)		SP	Gray fine sand with trace silt and occasional gravel (medium dense, moist)	NS	32.7	
				B-10 (4-5)		GP	Gray fine to coarse gravel with sand (dense to very dense, moist)	SS	164.2	

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

Log of Boring B-10



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-11
Sheet 1 of 1

Date: 9/3/21 Path: P:\24\24363\002\GINT\24363\002\000.GPJ DBL:library\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1727937 190579				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		24				GP	Gray fine to coarse gravel with sand and trace silt (medium dense, moist) (fill)	NS	1.6		
						FILL	Wood waste (approximately 75 percent)	NS	15.3		
						SP	Gray fine sand with trace silt	NS	19.1		
9					B-11 (4-5)	GP	Brown fine to coarse gravel with sand and trace silt (dense to very dense, moist)	SS	23.1		
5	Boring terminated at approximately 5 feet below ground surface due to refusal										

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

Log of Boring B-11



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-12
Sheet 1 of 1

Date: 9/3/21 Path: P:\24\24363\002\GINT\24363\002\000.GPJ DBL:library\library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	6.5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1727853 190594				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					
0	30					GP	Gray fine to coarse gravel with sand and trace silt (loose to medium dense, moist) (fill)				
10						FILL	Wood waste (approximately 75 percent)	NS	<1		
						GP	Brown fine to coarse gravel with sand and trace silt (medium dense, moist)	NS	<1		
	27					SM	Brown silty fine sand (medium dense, moist)	NS	1.8		
5						GP	Brown fine to coarse gravel with sand (dense to very dense, moist)	NS	1.1		

Boring terminated at approximately 6½ feet below ground surface due to refusal

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

Date: 9/3/21 Path: F:\24\24363002\GINT\24363002\00.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Log of Boring B-12



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-13
Sheet 1 of 1

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	5	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1727798 190573				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0		38			B-13 (0-1)		GP	Brown fine to coarse gravel with sand and trace silt (loose to medium dense, moist)	NS	<1		
							SP	Brown fine to medium sand with trace silt (loose, moist)	NS	<1		
							SM	Brown silty fine sand (medium dense, moist)	NS	<1		
5		3										
Boring terminated at approximately 5 feet below ground surface due to refusal on rock; coarse gravel in shoe												

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

Log of Boring B-13



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Figure A-14
Sheet 1 of 1

Date: 9/3/21 Path: F:\24\24363002\GINT\2436300200.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	4	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	792 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1727704 190620				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	30					GP	Gray fine to coarse gravel with sand and trace silt (medium dense, moist)	NS	<1		
				B-14 (1-1.5)		SM	Brown silty fine sand (medium dense, moist) (approximately 5 percent wood waste)	SS	2.0		
				B-14 (1.5-2.5)		GP	Light gray fine to coarse gravel with sand (dense to very dense, moist)	NS	1.7		
100							Becomes very dense				

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

Log of Boring B-14



Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Drilled	Start 8/27/2021	End 8/27/2021	Total Depth (ft)	4	Logged By Checked By	JO AP	Driller	GeoEngineers, Inc.	Drilling Method	GeoProbe
Surface Elevation (ft) Vertical Datum	793 NAVD88				Hammer Data	Drilling Equipment				GeoProbe 54DT
Easting (X) Northing (Y)	1727614 190614				System Datum	WA State Plane North NAD83 (feet)				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log				
0	30					GP	Gray fine to coarse gravel with sand and trace silt (medium dense, moist)	NS	<1	
						SM	Brown silty fine sand with occasional gravel (medium dense, moist)			
						GP	Light gray fine to coarse gravel with sand (very dense, moist)	NS	<1	
								NS	<1	

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

Log of Boring B-15

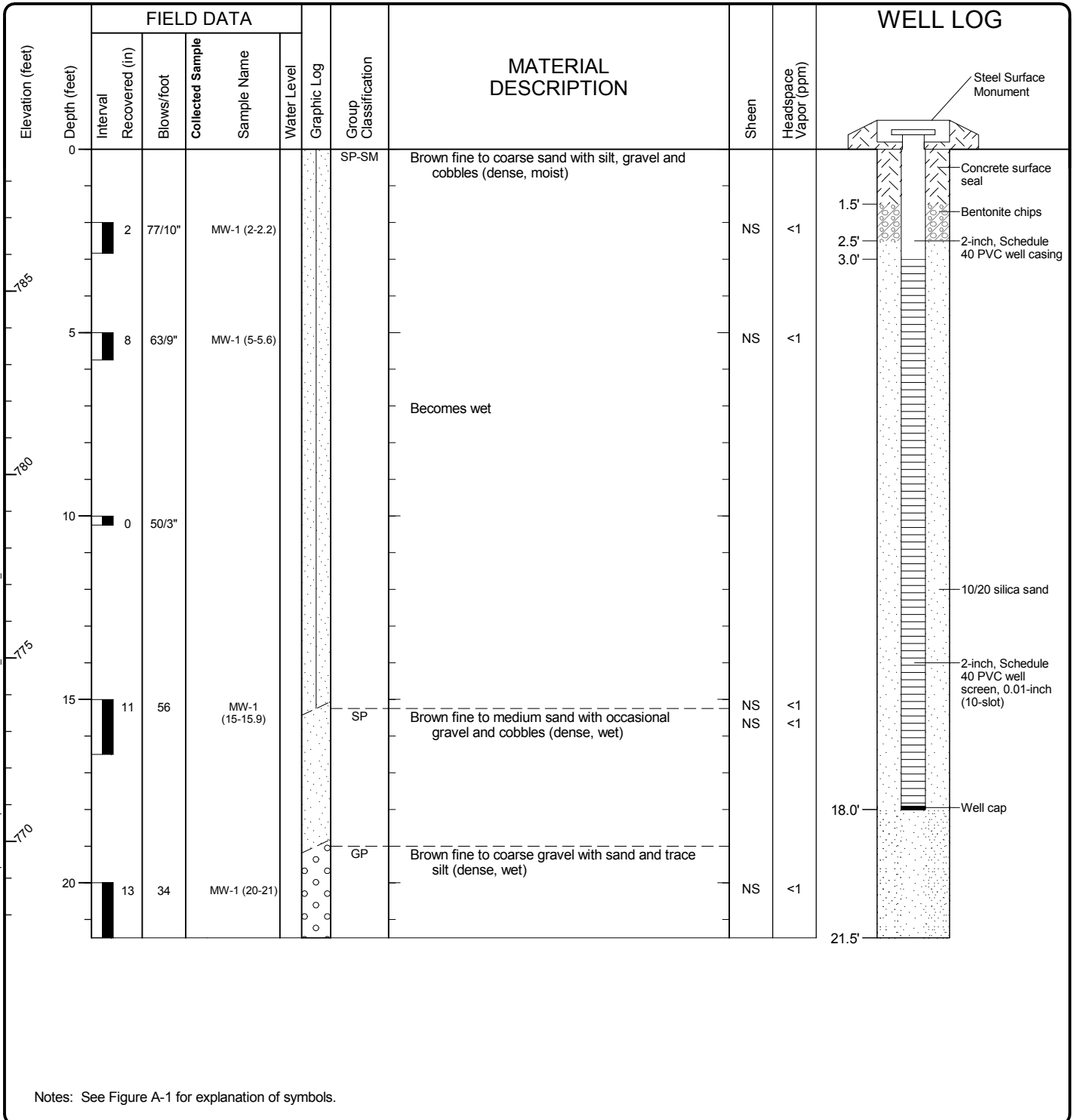


Project: Former Cashmere Mill Site
Project Location: Cashmere, Washington
Project Number: 24363-002-00

Date: 9/3/21 Path: P:\24\24363002\GINT\2436300200.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB\ENVIRONMENTAL_STANDARD_NO_GW

Boring Logs from Previous Explorations

Start Drilled 10/24/2013	End 10/24/2013	Total Depth (ft) 21.5	Logged By Checked By KAH DRL	Driller Environmental West	Drilling Method Air Rotary
Hammer Data 140 (lbs) / 30 (in) Drop		Drilling Equipment Schramm T-300		A 2 (in) well was installed on 10/24/2013 to a depth of 18 (ft).	
Surface Elevation (ft) Vertical Datum 788.87 NAVD88		Top of Casing Elevation (ft) 788.78		Groundwater Date Measured 10/28/2013	
Easting (X) Northing (Y) 1727943.39 190542.48		Horizontal Datum NAD 83-98		Depth to Water (ft) 6.8 Elevation (ft) 782.0	
Notes:					



Log of Monitoring Well MW-1



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 1/20/14 Path: P:\1818593001\02\GINT\18593001\02\MW_LOGS.GPJ DBTemplate\lib\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	15	Logged By Checked By	ERH DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push
Surface Elevation (ft) Vertical Datum	Undetermined				Hammer Data	Geoprobe				
Latitude Longitude	47.52169033570 -120.47769967400				System Datum	Geographic WGS84				
Notes:						Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)		

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level Graphic Log				
0	30			1		GM	Light brown silty fine to coarse gravel with occasional organic matter (grass) (moist) (fill)	NS	<1	Groundwater observed between approximately 11 and 12 feet during drilling
5	24			2		FILL	Brown wood waste (fill)	NS	<1	
						GP-GM	Gray fine to coarse gravel with silt (moist) (fill)	NS	<1	
10	40			3 CA		ML	Dark brown to red silt with occasional wood waste (moist) (fill)	SS	<1	
						GP-GM	Gray fine to coarse gravel with silt and sand (wet)	NS	<1	
Boring terminated at approximately 15 foot depth due to refusal										

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-11



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ DBTTemplate\LibTemplate\GEOENGINEERS\GDT\GEI\ENVIRONMENTAL_STANDARD

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	15	Logged By Checked By	ERH DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push		
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Geoprobe	
Latitude Longitude		47.52184044880 -120.47819359600			System Datum		Geographic WGS84		Groundwater Date Measured		Depth to Water (ft)	Elevation (ft)
Notes:												

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0	36			1			ML GM	NS SS	<1 <1	Groundwater observed at approximately 12 feet during drilling	
							ML	NS	<1		
5	36			2 CA			SP-SM GP-GM	NS SS SS	<1 <1 <1		
10	20			3				NS NS	<1 <1		
15											
Boring terminated at approximately 15 foot depth due to refusal											

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-13



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ DBTTemplate\LibTemplate\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	10	Logged By Checked By	ERH DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push
Surface Elevation (ft) Vertical Datum	Undetermined				Hammer Data	Drilling Equipment Geoprobe				
Latitude Longitude	47.52178014480 -120.47907121800				System Datum	Geographic WGS84				
Notes:					Groundwater Date Measured	Depth to Water (ft)		Elevation (ft)		

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0	36			1		GP-GM	Light brown fine to coarse gravel with silt (moist) (fill)	SS		
						GP	White fine to coarse gravel with sand (moist)			
						GM	Dark brown fine to coarse gravel with silt (moist)	NS	<1	
						GP-GM	Medium light brown fine to coarse gravel with sand and silt (moist)			
5	48						Becomes light to dark gray (moist)	SS	<1	
				2 CA				SS	<1	
10										
Boring terminated at approximately 10 foot depth due to refusal										

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-24



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ_DBT\template\lib\template\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	10	Logged By Checked By	RB DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push			
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Geoprobe		
Latitude Longitude		47.52180308820 -120.47916565000			System Datum		Geographic WGS84		Groundwater Date Measured			Depth to Water (ft)	Elevation (ft)
Notes:													

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0	32			1		GP	Gray coarse gravel (moist) (fill)	NS	<1	Groundwater observed at approximately 7 feet during drilling	
						SM	Brown silty fine to medium sand with occasional gravel and wood waste (moist) (fill)	NS	<1		
						GP	Gray coarse gravel with sand (moist)	NS	<1		
5	32			2 CA			Becomes wet	NS	<1		
10											
Boring terminated at approximately 10 foot depth due to refusal											

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-38



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ DBTTemplate\LibTemplate\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	10	Logged By Checked By	ERH DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push		
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Geoprobe	
Latitude Longitude		47.52205700860 -120.47969668500			System Datum		Geographic WGS84		Groundwater Date Measured		Depth to Water (ft)	Elevation (ft)
Notes:												

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0	36						GP-GM	Dark gray fine to coarse gravel with silt and occasional sand (moist)	SS		
				1 CA			SP	Becomes light brown to light gray Light brown fine to medium sand with trace silt and gravel (moist)	MS	<1	
							SP-SM	Dark brown fine to medium sand with silt (moist)			
							GP-GM	Light gray to white fine to coarse gravel with silt and sand (moist)			
5	36								NS	<1	
				2				Becomes to brown	NS	1.3	
10											Boring terminated at approximately 10 foot depth due to refusal

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-39



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ_DBT\template\lib\template\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 9/14/2013	End 9/14/2013	Total Depth (ft)	10	Logged By Checked By	ERH DRL	Driller	Cascade Drilling	Drilling Method	Direct-Push			
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Geoprobe		
Latitude Longitude		47.52212672580 -120.48026900700			System Datum		Geographic WGS84		Groundwater Date Measured			Depth to Water (ft)	Elevation (ft)
Notes:													

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0	30					GP-GM	Light brown fine to coarse gravel with silt and trace sand (moist)				
						SP-SM	Becomes dark brown Brown fine to medium sand with silt (moist)	NS	<1		
				1 CA		GP-GM	Light brown fine to coarse gravel with silt and sand (moist)				
5	36						Becomes white and light brown				
				2		SP	Brown fine to medium sand with occasional gravel (moist to wet)	NS	<1		Groundwater observed at approximately 6½ feet during drilling
						GP-GM	Brown fine to coarse gravel with silt and sand (wet)				
10							Boring terminated at approximately 10 foot depth due to refusal				

Notes: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring N-DP-51



Project: Former Cashmere Mill Site, Data Gap Assessment
 Project Location: Cashmere, Washington
 Project Number: 18593-001-02

Spokane: Date: 7/20/14 Path: P:\1818593001\02\GINT\1859300102.GPJ_DBT\template\lib\template\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

APPENDIX B
**Chemical Analytical Testing Reports and
Data Validation Report**

Project: Chelan Douglas RPA – Cashmere Mill Redevelopment Design
August 2021 Soil and Groundwater Samples

GEI File No: 18593-001-00

Date: September 15, 2021

This report documents the results of a United States Environmental Protection Agency (EPA)-defined Stage 2A data validation (EPA Document 540-R-08-005; EPA 2009) of analytical data from the analyses of soil and groundwater samples collected as part of the August 2021 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Former Cashmere Mill Site located in the general vicinity of Mill Road and Sunset Highway, about 100 feet south of the Wenatchee River and along the north bank of Brender Creek in Cashmere, Washington.

Objective and Quality Control Elements

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

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

In accordance with Sampling and Analysis Plan (GeoEngineers 2021) and Quality Assurance Project Plan (GeoEngineers 2013), the data validation included review of the following QC elements:

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

Validated Sample Delivery Groups

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

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
590-15777-1	B-1 (8-8.5), B-4 (5-6), B-5 (5-6), Dup, B-7 (1-2), B-8 (1-2), B-9 (4-5), B-10 (4-5), B-11 (4-5), B-13 (0-1), B-14 (1-1.25), MW-1:082721
590-15783-1	B-1 (5-6.5), B-4 (1-2), B-6 (2.5-3)

Chemical Analysis Performed

Eurofins TestAmerica Laboratories, Inc. (TestAmerica), located in Spokane, Washington, performed laboratory analyses on the samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Total Metals in Soils by Methods SW6010D and SW7471B; and
- Total Metals in Water by Method SW6020B

Data Validation Summary

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

Data Package Completeness

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

Chain-of-Custody Documentation

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

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory outside the appropriate temperatures of between 2 and 6 degrees Celsius. The out-of-compliance cooler temperatures are detailed below.

SDG 590-15777-1: The sample cooler temperature recorded at the laboratory was 0.5 degrees Celsius. It was determined through professional judgment that since the samples were not frozen, this temperature should not affect the sample analytical results.

SDG 590-15783-1: The sample cooler temperature recorded at the laboratory was -1.8 degrees Celsius. It was determined through professional judgment that since the samples were not frozen, this temperature should not affect the sample analytical results.

Surrogate Recoveries

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

Method Blanks

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

Matrix Spikes/Matrix Spike Duplicates

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

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

Laboratory Control Samples/Laboratory Control Sample Duplicates

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

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

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that

sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 590-15777-1: (NWTPH-Dx) The laboratory performed a laboratory duplicate sample set on Sample B-1 (8-8.5). The RPD for lube oil-range hydrocarbons was greater than the control limit in the laboratory duplicate extracted on 8/30/2021. There were no positive results for this target analyte in this field sample; therefore, no qualification was required.

Field Duplicates

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

SDG 590-15777-1: One field duplicate sample pair, B-5 (5-6) and Dup, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event.

Miscellaneous

SDG 590-15777-1: (NWTPH-Dx) The positive results for diesel-range hydrocarbons in Samples B-10 (4-5) and B-14 (1-1.25) may be due to oil overlap and possible biogenic interference, respectively, which may bias the reported sample concentrations. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples.

SDG 590-15783-1: (NWTPH-Dx) The positive results for diesel-range hydrocarbons in Samples B-1 (5-6.5) and B-4 (1-2) may be due to oil overlap and possible biogenic interference, which may bias the reported sample concentrations. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples.

The positive result for diesel-range hydrocarbons in Sample B-6 (2.5-3) may be due to oil overlap, which may bias the reported sample concentration. For this reason, the positive result for diesel-range hydrocarbons was qualified as estimated (J) in this sample.

Overall Assessment

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

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



TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
B-1 (5-6.5)	Diesel-range hydrocarbons	J	See Miscellaneous
B-4 (1-2)	Diesel-range hydrocarbons	J	See Miscellaneous
B-6 (2.5-3)	Diesel-range hydrocarbons	J	See Miscellaneous
B-10 (4-5)	Diesel-range hydrocarbons	J	See Miscellaneous
B-14 (1-1.25)	Diesel-range hydrocarbons	J	See Miscellaneous

References

GeoEngineers, Inc. 2013. "Former Cashmere Mill Site: Data Gap Assessment, Quality Assurance Project Plan," prepared for Chelan Douglas Regional Port Authority. September 5, 2013.

GeoEngineers, Inc. 2021. "Sampling and Analysis Plan," prepared for Chelan Douglas Regional Port Authority. August 25, 2021.

U.S. Environmental Protection Agency (EPA). 2009. "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (EPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (EPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

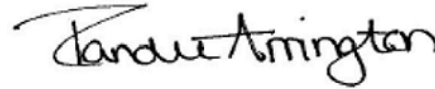
Laboratory Job ID: 590-15777-1

Client Project/Site: Port of Chelan County - Cashmere Mill

For:

GeoEngineers Inc
14 N. Wenatchee Ave.
Suite #115
Wenatchee, Washington 98801

Attn: Nick Rohrbach



*Authorized for release by:
9/13/2021 4:40:39 PM*

Randee Arrington, Lab Director
(509)924-9200

Randee.Arrington@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Job ID: 590-15777-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 8/27/2021 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap in the following sample: B-10 (4-5) (590-15777-11).

Method NWTPH-Dx: Detected hydrocarbons appear to be due to possible biogenic interference in the following sample: B-14 (1-1.25) (590-15777-15).

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

Metals

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

General Chemistry

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

Organic Prep

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

VOA Prep

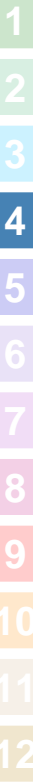
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15777-1	B-1 (8-8.5)	Solid	08/26/21 11:45	08/27/21 16:00
590-15777-4	B-4 (5-6)	Solid	08/26/21 13:30	08/27/21 16:00
590-15777-5	B-5 (5-6)	Solid	08/26/21 13:45	08/27/21 16:00
590-15777-7	B-7 (1-2)	Solid	08/26/21 14:50	08/27/21 16:00
590-15777-8	B-8 (1-2)	Solid	08/26/21 15:20	08/27/21 16:00
590-15777-9	B-9 (4-5)	Solid	08/26/21 15:45	08/27/21 16:00
590-15777-11	B-10 (4-5)	Solid	08/27/21 07:40	08/27/21 16:00
590-15777-12	B-11 (4-5)	Solid	08/27/21 08:05	08/27/21 16:00
590-15777-14	B-13 (0-1)	Solid	08/27/21 08:50	08/27/21 16:00
590-15777-15	B-14 (1-1.25)	Solid	08/27/21 09:10	08/27/21 16:00
590-15777-18	Dup	Solid	08/26/21 08:00	08/27/21 16:00
590-15777-19	MW-1:082721	Water	08/27/21 11:08	08/27/21 16:00



Definitions/Glossary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-1 (8-8.5)

Date Collected: 08/26/21 11:45

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-1

Matrix: Solid

Percent Solids: 59.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		14		mg/Kg	☼	09/02/21 13:05	09/02/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162				09/02/21 13:05	09/02/21 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		16		mg/Kg	☼	08/30/21 11:13	08/30/21 15:01	1
Residual Range Organics (RRO) (C25-C36)	ND		41		mg/Kg	☼	08/30/21 11:13	08/30/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				08/30/21 11:13	08/30/21 15:01	1
n-Triacontane-d62	83		50 - 150				08/30/21 11:13	08/30/21 15:01	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.2		mg/Kg	☼	09/02/21 10:14	09/03/21 11:26	1
Lead	12		2.9		mg/Kg	☼	09/02/21 10:14	09/03/21 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		68		ug/Kg	☼	09/10/21 11:07	09/10/21 15:51	1

Client Sample ID: B-4 (5-6)

Date Collected: 08/26/21 13:30

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-4

Matrix: Solid

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.5		mg/Kg	☼	09/02/21 13:05	09/02/21 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		41.5 - 162				09/02/21 13:05	09/02/21 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		11		mg/Kg	☼	08/30/21 11:13	08/30/21 15:43	1
Residual Range Organics (RRO) (C25-C36)	ND		28		mg/Kg	☼	08/30/21 11:13	08/30/21 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				08/30/21 11:13	08/30/21 15:43	1
n-Triacontane-d62	85		50 - 150				08/30/21 11:13	08/30/21 15:43	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.1		mg/Kg	☼	09/02/21 10:14	09/03/21 11:30	1
Lead	ND		2.7		mg/Kg	☼	09/02/21 10:14	09/03/21 11:30	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-4 (5-6)

Date Collected: 08/26/21 13:30

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-4

Matrix: Solid

Percent Solids: 86.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		59		ug/Kg	☼	09/10/21 11:07	09/10/21 16:01	1

Client Sample ID: B-5 (5-6)

Date Collected: 08/26/21 13:45

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-5

Matrix: Solid

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.6		mg/Kg	☼	09/02/21 13:05	09/02/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162	09/02/21 13:05	09/02/21 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		11		mg/Kg	☼	08/30/21 11:13	08/30/21 16:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Range Organics (RRO) (C25-C36)	ND		27		mg/Kg	☼	08/30/21 11:13	08/30/21 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	08/30/21 11:13	08/30/21 16:24	1
n-Triacontane-d62	89		50 - 150	08/30/21 11:13	08/30/21 16:24	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.90		mg/Kg	☼	09/02/21 10:14	09/03/21 11:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.2		mg/Kg	☼	09/02/21 10:14	09/03/21 11:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		43		ug/Kg	☼	09/10/21 11:07	09/10/21 16:03	1

Client Sample ID: B-7 (1-2)

Date Collected: 08/26/21 14:50

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-7

Matrix: Solid

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.8		mg/Kg	☼	09/02/21 13:05	09/02/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162	09/02/21 13:05	09/02/21 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	08/30/21 11:13	08/30/21 16:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	08/30/21 11:13	08/30/21 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	08/30/21 11:13	08/30/21 16:45	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-7 (1-2)
 Date Collected: 08/26/21 14:50
 Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-7
 Matrix: Solid
 Percent Solids: 96.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Triacontane-d62	81		50 - 150	08/30/21 11:13	08/30/21 16:45	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.98		mg/Kg	☆	09/02/21 10:14	09/03/21 11:38	1
Lead	3.7		2.4		mg/Kg	☆	09/02/21 10:14	09/03/21 11:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	150		52		ug/Kg	☆	09/10/21 11:07	09/10/21 16:11	1

Client Sample ID: B-8 (1-2)
 Date Collected: 08/26/21 15:20
 Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-8
 Matrix: Solid
 Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.1		mg/Kg	☆	09/02/21 13:05	09/02/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	09/02/21 13:05	09/02/21 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☆	08/30/21 11:13	08/30/21 17:06	1
Residual Range Organics (RRO) (C25-C36)	29		26		mg/Kg	☆	08/30/21 11:13	08/30/21 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		50 - 150	08/30/21 11:13	08/30/21 17:06	1
<i>n</i> -Triacontane-d62	92		50 - 150	08/30/21 11:13	08/30/21 17:06	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.96		mg/Kg	☆	09/02/21 10:14	09/03/21 11:58	1
Lead	45		2.3		mg/Kg	☆	09/02/21 10:14	09/03/21 11:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50		ug/Kg	☆	09/10/21 11:07	09/10/21 16:14	1

Client Sample ID: B-9 (4-5)
 Date Collected: 08/26/21 15:45
 Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-9
 Matrix: Solid
 Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.5		mg/Kg	☆	09/02/21 13:05	09/02/21 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		41.5 - 162	09/02/21 13:05	09/02/21 16:52	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-9 (4-5)

Lab Sample ID: 590-15777-9

Date Collected: 08/26/21 15:45

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	08/30/21 11:13	08/30/21 17:27	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	08/30/21 11:13	08/30/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		50 - 150				08/30/21 11:13	08/30/21 17:27	1
<i>n</i> -Triacontane-d62	85		50 - 150				08/30/21 11:13	08/30/21 17:27	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		0.94		mg/Kg	☼	09/02/21 10:14	09/03/21 12:02	1
Lead	6.9		2.2		mg/Kg	☼	09/02/21 10:14	09/03/21 12:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		44		ug/Kg	☼	09/10/21 11:07	09/10/21 16:16	1

Client Sample ID: B-10 (4-5)

Lab Sample ID: 590-15777-11

Date Collected: 08/27/21 07:40

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	17		5.7		mg/Kg	☼	09/02/21 13:05	09/02/21 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162				09/02/21 13:05	09/02/21 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	13		9.8		mg/Kg	☼	08/30/21 11:13	08/30/21 18:08	1
Residual Range Organics (RRO) (C25-C36)	96		25		mg/Kg	☼	08/30/21 11:13	08/30/21 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		50 - 150				08/30/21 11:13	08/30/21 18:08	1
<i>n</i> -Triacontane-d62	85		50 - 150				08/30/21 11:13	08/30/21 18:08	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.94		mg/Kg	☼	09/02/21 10:14	09/03/21 12:06	1
Lead	2.8		2.2		mg/Kg	☼	09/02/21 10:14	09/03/21 12:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		47		ug/Kg	☼	09/10/21 11:07	09/10/21 16:19	1

Client Sample Results

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-11 (4-5)

Lab Sample ID: 590-15777-12

Date Collected: 08/27/21 08:05

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.5		mg/Kg	☼	09/02/21 13:05	09/02/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		41.5 - 162				09/02/21 13:05	09/02/21 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		9.9		mg/Kg	☼	08/30/21 11:13	08/30/21 18:29	1
Residual Range Organics (RRO) (C25-C36)	49		25		mg/Kg	☼	08/30/21 11:13	08/30/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				08/30/21 11:13	08/30/21 18:29	1
n-Triacontane-d62	90		50 - 150				08/30/21 11:13	08/30/21 18:29	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.91		mg/Kg	☼	09/02/21 10:14	09/03/21 12:10	1
Lead	3.2		2.2		mg/Kg	☼	09/02/21 10:14	09/03/21 12:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		46		ug/Kg	☼	09/10/21 11:07	09/10/21 16:21	1

Client Sample ID: B-13 (0-1)

Lab Sample ID: 590-15777-14

Date Collected: 08/27/21 08:50

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.8		mg/Kg	☼	09/02/21 13:05	09/02/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		41.5 - 162				09/02/21 13:05	09/02/21 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	08/30/21 11:13	08/30/21 18:50	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	08/30/21 11:13	08/30/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				08/30/21 11:13	08/30/21 18:50	1
n-Triacontane-d62	84		50 - 150				08/30/21 11:13	08/30/21 18:50	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		0.94		mg/Kg	☼	09/02/21 10:14	09/03/21 12:14	1
Lead	16		2.2		mg/Kg	☼	09/02/21 10:14	09/03/21 12:14	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-13 (0-1)

Date Collected: 08/27/21 08:50

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-14

Matrix: Solid

Percent Solids: 94.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		41		ug/Kg	☼	09/10/21 11:07	09/10/21 16:24	1

Client Sample ID: B-14 (1-1.25)

Date Collected: 08/27/21 09:10

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-15

Matrix: Solid

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.5		mg/Kg	☼	09/02/21 13:05	09/02/21 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162	09/02/21 13:05	09/02/21 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	15		10		mg/Kg	☼	08/30/21 11:13	08/30/21 19:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	08/30/21 11:13	08/30/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	08/30/21 11:13	08/30/21 19:11	1
n-Triacontane-d62	86		50 - 150	08/30/21 11:13	08/30/21 19:11	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.0		mg/Kg	☼	09/02/21 10:14	09/03/21 12:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		2.4		mg/Kg	☼	09/02/21 10:14	09/03/21 12:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50		ug/Kg	☼	09/10/21 11:07	09/10/21 16:26	1

Client Sample ID: Dup

Date Collected: 08/26/21 08:00

Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-18

Matrix: Solid

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.0		mg/Kg	☼	09/02/21 13:05	09/02/21 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		41.5 - 162	09/02/21 13:05	09/02/21 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	08/30/21 11:13	08/30/21 19:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	08/30/21 11:13	08/30/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	08/30/21 11:13	08/30/21 19:32	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: Dup

Lab Sample ID: 590-15777-18

Date Collected: 08/26/21 08:00

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 92.1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	83		50 - 150	08/30/21 11:13	08/30/21 19:32	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.1		mg/Kg	☆	09/02/21 10:14	09/03/21 12:21	1
Lead	ND		2.5		mg/Kg	☆	09/02/21 10:14	09/03/21 12:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		44		ug/Kg	☆	09/10/21 11:07	09/10/21 16:29	1

Client Sample ID: MW-1:082721

Lab Sample ID: 590-15777-19

Date Collected: 08/27/21 11:08

Matrix: Water

Date Received: 08/27/21 16:00

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050		mg/L		09/09/21 18:52	09/10/21 10:34	5

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

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

Lab Sample ID: MB 590-32997/1-A
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		09/02/21 13:05	09/02/21 13:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162				09/02/21 13:05	09/02/21 13:15	1

Lab Sample ID: LCS 590-32997/3-A
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	50.0	56.8		mg/Kg		114	74.4 - 124
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		41.5 - 162				

Lab Sample ID: 590-15777-1 DU
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: B-1 (8-8.5)
Prep Type: Total/NA
Prep Batch: 32997

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	ND		ND		mg/Kg	✘	NC	32.3
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	101		41.5 - 162					

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

Lab Sample ID: MB 590-32942/1-A
Matrix: Solid
Analysis Batch: 32944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		08/30/21 11:13	08/30/21 14:19	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		08/30/21 11:13	08/30/21 14:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				08/30/21 11:13	08/30/21 14:19	1
n-Triacontane-d62	82		50 - 150				08/30/21 11:13	08/30/21 14:19	1

Lab Sample ID: LCS 590-32942/2-A
Matrix: Solid
Analysis Batch: 32944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	53.9		mg/Kg		81	50 - 150

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

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

Lab Sample ID: LCS 590-32942/2-A
Matrix: Solid
Analysis Batch: 32944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Residual Range Organics (RRO) (C25-C36)	66.7	59.7		mg/Kg		90	50 - 150
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	87		50 - 150				
<i>n</i> -Triacontane-d62	83		50 - 150				

Lab Sample ID: 590-15777-1 DU
Matrix: Solid
Analysis Batch: 32944

Client Sample ID: B-1 (8-8.5)
Prep Type: Total/NA
Prep Batch: 32942

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	ND		ND		mg/Kg	☼	NC	40
Residual Range Organics (RRO) (C25-C36)	ND		ND	F5	mg/Kg	☼	43	40
Surrogate								
	DU %Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	72		50 - 150					
<i>n</i> -Triacontane-d62	85		50 - 150					

Lab Sample ID: 590-15777-4 DU
Matrix: Solid
Analysis Batch: 32944

Client Sample ID: B-4 (5-6)
Prep Type: Total/NA
Prep Batch: 32942

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	ND		ND		mg/Kg	☼	NC	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	NC	40
Surrogate								
	DU %Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	87		50 - 150					
<i>n</i> -Triacontane-d62	87		50 - 150					

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-32980/2-A
Matrix: Solid
Analysis Batch: 33006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3		mg/Kg		09/02/21 10:14	09/03/21 09:20	1
Lead	ND		3.0		mg/Kg		09/02/21 10:14	09/03/21 09:20	1

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

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

Lab Sample ID: LCS 590-32980/1-A
 Matrix: Solid
 Analysis Batch: 33006

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 32980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	95.9		mg/Kg		96	80 - 120
Lead	50.0	51.6		mg/Kg		103	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-367405/23-A
 Matrix: Water
 Analysis Batch: 367660

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 367405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		09/09/21 18:52	09/10/21 09:38	1

Lab Sample ID: LCS 580-367405/24-A
 Matrix: Water
 Analysis Batch: 367660

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 367405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.988		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-367405/25-A
 Matrix: Water
 Analysis Batch: 367660

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total Recoverable
 Prep Batch: 367405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	1.00	1.00		mg/L		100	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-33083/9-A
 Matrix: Solid
 Analysis Batch: 33091

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 33083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50		ug/Kg		09/10/21 11:05	09/10/21 15:43	1

Lab Sample ID: LCS 590-33083/8-A
 Matrix: Solid
 Analysis Batch: 33091

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 33083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	200	198		ug/Kg		99	80 - 120

Lab Sample ID: 590-15777-1 MS
 Matrix: Solid
 Analysis Batch: 33091

Client Sample ID: B-1 (8-8.5)
 Prep Type: Total/NA
 Prep Batch: 33083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	ND		313	346		ug/Kg	✱	92	80 - 120

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

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

Lab Sample ID: 590-15777-1 MSD
Matrix: Solid
Analysis Batch: 33091

Client Sample ID: B-1 (8-8.5)
Prep Type: Total/NA
Prep Batch: 33083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		313	351		ug/Kg	✱	93	80 - 120	1	20

Lab Sample ID: 590-15777-1 DU
Matrix: Solid
Analysis Batch: 33091

Client Sample ID: B-1 (8-8.5)
Prep Type: Total/NA
Prep Batch: 33083

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hg	ND		ND		ug/Kg	✱	NC	20

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-1 (8-8.5)

Lab Sample ID: 590-15777-1

Date Collected: 08/26/21 11:45

Matrix: Solid

Date Received: 08/27/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-1 (8-8.5)

Lab Sample ID: 590-15777-1

Date Collected: 08/26/21 11:45

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 59.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.899 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 14:21	JSP	TAL SPK
Total/NA	Prep	3550C			15.47 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 15:01	NMI	TAL SPK
Total/NA	Prep	3050B			1.73 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 11:26	AMB	TAL SPK
Total/NA	Prep	7471B			0.62 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 15:51	AMB	TAL SPK

Client Sample ID: B-4 (5-6)

Lab Sample ID: 590-15777-4

Date Collected: 08/26/21 13:30

Matrix: Solid

Date Received: 08/27/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-4 (5-6)

Lab Sample ID: 590-15777-4

Date Collected: 08/26/21 13:30

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.661 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 15:05	JSP	TAL SPK
Total/NA	Prep	3550C			15.51 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 15:43	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 11:30	AMB	TAL SPK
Total/NA	Prep	7471B			0.49 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:01	AMB	TAL SPK

Client Sample ID: B-5 (5-6)

Lab Sample ID: 590-15777-5

Date Collected: 08/26/21 13:45

Matrix: Solid

Date Received: 08/27/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-5 (5-6)
Date Collected: 08/26/21 13:45
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-5
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.09 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 15:26	JSP	TAL SPK
Total/NA	Prep	3550C			15.43 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 16:24	NMI	TAL SPK
Total/NA	Prep	3050B			1.53 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 11:34	AMB	TAL SPK
Total/NA	Prep	7471B			0.64 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:03	AMB	TAL SPK

Client Sample ID: B-7 (1-2)
Date Collected: 08/26/21 14:50
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-7 (1-2)
Date Collected: 08/26/21 14:50
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-7
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.286 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 15:48	JSP	TAL SPK
Total/NA	Prep	3550C			15.16 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 16:45	NMI	TAL SPK
Total/NA	Prep	3050B			1.32 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 11:38	AMB	TAL SPK
Total/NA	Prep	7471B			0.50 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:11	AMB	TAL SPK

Client Sample ID: B-8 (1-2)
Date Collected: 08/26/21 15:20
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-8 (1-2)
Date Collected: 08/26/21 15:20
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-8
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.212 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 16:09	JSP	TAL SPK
Total/NA	Prep	3550C			15.29 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 17:06	NMI	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-8 (1-2)
Date Collected: 08/26/21 15:20
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-8
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.40 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 11:58	AMB	TAL SPK
Total/NA	Prep	7471B			0.53 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:14	AMB	TAL SPK

Client Sample ID: B-9 (4-5)
Date Collected: 08/26/21 15:45
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-9 (4-5)
Date Collected: 08/26/21 15:45
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-9
Matrix: Solid
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.928 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 16:52	JSP	TAL SPK
Total/NA	Prep	3550C			15.31 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 17:27	NMI	TAL SPK
Total/NA	Prep	3050B			1.37 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:02	AMB	TAL SPK
Total/NA	Prep	7471B			0.58 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:16	AMB	TAL SPK

Client Sample ID: B-10 (4-5)
Date Collected: 08/27/21 07:40
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-10 (4-5)
Date Collected: 08/27/21 07:40
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-11
Matrix: Solid
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.372 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 17:14	JSP	TAL SPK
Total/NA	Prep	3550C			15.80 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 18:08	NMI	TAL SPK
Total/NA	Prep	3050B			1.38 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:06	AMB	TAL SPK
Total/NA	Prep	7471B			0.55 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:19	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-11 (4-5)
Date Collected: 08/27/21 08:05
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-11 (4-5)
Date Collected: 08/27/21 08:05
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-12
Matrix: Solid
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.598 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 17:35	JSP	TAL SPK
Total/NA	Prep	3550C			15.63 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 18:29	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:10	AMB	TAL SPK
Total/NA	Prep	7471B			0.56 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:21	AMB	TAL SPK

Client Sample ID: B-13 (0-1)
Date Collected: 08/27/21 08:50
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: B-13 (0-1)
Date Collected: 08/27/21 08:50
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-14
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.072 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 17:57	JSP	TAL SPK
Total/NA	Prep	3550C			15.85 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 18:50	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:14	AMB	TAL SPK
Total/NA	Prep	7471B			0.64 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:24	AMB	TAL SPK

Client Sample ID: B-14 (1-1.25)
Date Collected: 08/27/21 09:10
Date Received: 08/27/21 16:00

Lab Sample ID: 590-15777-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Client Sample ID: B-14 (1-1.25)

Lab Sample ID: 590-15777-15

Date Collected: 08/27/21 09:10

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.58 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 18:18	JSP	TAL SPK
Total/NA	Prep	3550C			15.41 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 19:11	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:17	AMB	TAL SPK
Total/NA	Prep	7471B			0.53 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:26	AMB	TAL SPK

Client Sample ID: Dup

Lab Sample ID: 590-15777-18

Date Collected: 08/26/21 08:00

Matrix: Solid

Date Received: 08/27/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32936	08/30/21 10:13	KBZ	TAL SPK

Client Sample ID: Dup

Lab Sample ID: 590-15777-18

Date Collected: 08/26/21 08:00

Matrix: Solid

Date Received: 08/27/21 16:00

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.26 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 18:40	JSP	TAL SPK
Total/NA	Prep	3550C			15.66 g	5 mL	32942	08/30/21 11:13	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32944	08/30/21 19:32	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	32980	09/02/21 10:14	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 12:21	AMB	TAL SPK
Total/NA	Prep	7471B			0.61 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:29	AMB	TAL SPK

Client Sample ID: MW-1:082721

Lab Sample ID: 590-15777-19

Date Collected: 08/27/21 11:08

Matrix: Water

Date Received: 08/27/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	367405	09/09/21 18:52	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	50 mL	50 mL	367660	09/10/21 10:34	FCW	FGS SEA

Laboratory References:

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

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

Accreditation/Certification Summary

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	Dept. of Energy	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2954	06-30-21 *
Florida	NELAP	E87575	06-30-22
Kentucky (WW)	State	KY98042	12-31-21
Louisiana	NELAP	03073	06-30-22
Maine	State	2020012	05-02-22
Montana (UST)	State	NA	04-14-27
New Jersey	NELAP	WA014	06-30-22
New York	NELAP	11662	04-01-22
Oregon	NELAP	4167	07-07-22
US Fish & Wildlife	US Federal Programs	058448	05-31-22
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C788	07-13-22
Wisconsin	State	399133460	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15777-1

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
6020B	Metals (ICP/MS)	SW846	FGS SEA
7471B	Mercury (CVAA)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	FGS SEA
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK
7471B	Preparation, Mercury	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:


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

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

Eurofins TestAmerica, Spokane

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

Chain of Custody Record

Client Information		Sampler: JUSTA OFF		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-6793-2007.1																																																																																																																																																													
Client Contact: Nick Rohrbach		Phone: (406) 290-1310		E-Mail: Randee.Arrington@Eurofinset.com		State of Origin:		Page: Page 1 of 2																																																																																																																																																													
Company: GeoEngineers Inc		PWSID:		Analysis Requested						Job #																																																																																																																																																											
Address: 14 N. Wenatchee Ave. Suite #115		Due Date Requested: 9/10/2021		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Form MS/MSD (Yes or No)</td> <td>Form NWTPH, Gx, MS - Gx by GCMS</td> <td>Form 6010D, 7471B, NWTPH_Dx</td> <td>Form 6020B - (MOD) Arsenic</td> <td rowspan="5">590-15777 Chain of Custody</td> <td rowspan="5">Total Number of Containers</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>						Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Form NWTPH, Gx, MS - Gx by GCMS	Form 6010D, 7471B, NWTPH_Dx	Form 6020B - (MOD) Arsenic	590-15777 Chain of Custody	Total Number of Containers																					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																																																																																																																																
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City: Wenatchee		TAT Requested (days): STD								Special Instructions/Note:																																																																																																																																																											
State, Zip: WA, 98801		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																																																			
Phone: 509-899-9389(Tel)		PO #: Purchase Order not required																																																																																																																																																																			
Email: nrrohrbach@geoengineers.com		WO #:																																																																																																																																																																			
Project Name: Cashmere		Project #: 59002236		<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Form MS/MSD (Yes or No)</th> <th>Form NWTPH, Gx, MS - Gx by GCMS</th> <th>Form 6010D, 7471B, NWTPH_Dx</th> <th>Form 6020B - (MOD) Arsenic</th> <th rowspan="5">590-15777 Chain of Custody</th> <th rowspan="5">Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B-1 (8-8.5)</td> <td>7/26/21</td> <td>1145</td> <td>G</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-2 (4.5-5)</td> <td></td> <td>1215</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Hold</td> </tr> <tr> <td>B-3 (5-6)</td> <td></td> <td>1235</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Hold</td> </tr> <tr> <td>B-4 (5-6)</td> <td></td> <td>1330</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-5 (5-6)</td> <td></td> <td>1345</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-6 (1-2)</td> <td></td> <td>1415</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Hold</td> </tr> <tr> <td>B-7 (1-2)</td> <td></td> <td>1450</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-8 (1-2)</td> <td></td> <td>1520</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-9 (4-5)</td> <td></td> <td>1545</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>B-10 (2-2.5)</td> <td>8/27/21</td> <td>0735</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Hold</td> </tr> <tr> <td>B-10 (4-5)</td> <td>8/27/21</td> <td>0740</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>						Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Form NWTPH, Gx, MS - Gx by GCMS	Form 6010D, 7471B, NWTPH_Dx	Form 6020B - (MOD) Arsenic	590-15777 Chain of Custody	Total Number of Containers													B-1 (8-8.5)	7/26/21	1145	G	Solid	X	X	X	X	X			B-2 (4.5-5)		1215		Solid	X	X	X	X	X		Hold	B-3 (5-6)		1235		Solid	X	X	X	X	X		Hold	B-4 (5-6)		1330		Solid	X	X	X	X	X			B-5 (5-6)		1345		Solid	X	X	X	X	X			B-6 (1-2)		1415		Solid	X	X	X	X	X		Hold	B-7 (1-2)		1450		Solid	X	X	X	X	X			B-8 (1-2)		1520		Solid	X	X	X	X	X			B-9 (4-5)		1545		Solid	X	X	X	X	X			B-10 (2-2.5)	8/27/21	0735		Solid	X	X	X	X	X		Hold	B-10 (4-5)	8/27/21	0740		Solid	X	X	X	X	X		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)							Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Form NWTPH, Gx, MS - Gx by GCMS	Form 6010D, 7471B, NWTPH_Dx	Form 6020B - (MOD) Arsenic	590-15777 Chain of Custody	Total Number of Containers																																																																																																																																																				
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B-3 (5-6)		1235		Solid	X	X	X	X	X		Hold																																																																																																																																																										
B-4 (5-6)		1330		Solid	X	X	X	X	X																																																																																																																																																												
B-5 (5-6)		1345		Solid	X	X	X	X	X																																																																																																																																																												
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B-7 (1-2)		1450		Solid	X	X	X	X	X																																																																																																																																																												
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Site: Cashmere		SSOW#:		Preservation Code: <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D																																																																																																																																																																	

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
---	--	--	--	---	--	--	--

Deliverable Requested: I, II, III, IV, Other (specify) _____ Special Instructions/QC Requirements: _____

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
	7-27-21 / 1558	GEI		8/27/21 10:00	ETA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5°C IR006
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Chain of Custody Record

Client Information		Sampler: <u>Justin Orr</u>		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-6793-2007.2									
Client Contact: Nick Rohrbach		Phone: <u>(406) 890-1310</u>		E-Mail: Randee.Arrington@Eurofinset.com		State of Origin:		Page: Page 2 of 2									
Company: GeoEngineers Inc		PWSID:		Analysis Requested						Job #:							
Address: 14 N. Wenatchee Ave. Suite #115		Due Date Requested: <u>9/10/2021</u>								Preservation Codes:							
City: Wenatchee		TAT Requested (days): <u>STD</u>		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		A - HCL		M - Hexane					
State, Zip: WA, 98801		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								N - None		O - AsNaO2		P - Na2O4S		Q - Na2SO3	
Phone: 509-899-9389(Tel)		PO #: Purchase Order not required								R - Na2S2O3		S - H2SO4		T - TSP Dodecahydrate		U - Acetone	
Email: nrrohrbach@geoengineers.com		WO #:								60100, 7471B, NMTPH_Dx		6020B - (MOD) Arsenic		V - MCAA		W - pH 4-5	
Project Name: Cashmere		Project #: 59002236		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)						Other:							
Site:		SSOW#:		Sample Type (C=Comp, G=grab)													
Sample Identification		Sample Date		Sample Time		Preservation Code:						Special Instructions/Note:					
<u>B-11 (4-5)</u>		<u>7/2/21</u>		<u>0805</u>		<u>G</u>		<u>Solid</u>									
<u>B-12 (5-5.5)</u>		<u> </u>		<u>0835</u>		<u> </u>		<u>Solid</u>				<u>Hold</u>					
<u>B-13 (0-1)</u>		<u> </u>		<u>0850</u>		<u> </u>		<u>Solid</u>									
<u>B-14 (1-1.25)</u>		<u> </u>		<u>0910</u>		<u> </u>		<u>Solid</u>									
<u>B-14 (1.5-2.5)</u>		<u> </u>		<u>0915</u>		<u> </u>		<u>Solid</u>				<u>Hold</u>					
<u>B-15 (1-2)</u>		<u> </u>		<u>0935</u>		<u> </u>		<u>Solid</u>				<u>Hold</u>					
<u>Dup</u>		<u>7/2/21</u>		<u>0800</u>		<u> </u>		<u>Solid</u>									
<u>MW-1:082721</u>		<u>8/27/21</u>		<u>1108</u>		<u> </u>		<u>Water</u>									
								<u>Solid</u>									
								<u>Water</u>									
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:											
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:											
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-27-21 / 1558</u>		Company: <u>GEI</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8/27/21 1600</u>		Company: <u>EMASPd</u>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>0.5°C</u> <u>Trace</u>													



Eurofins TestAmerica, Spokane

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-6268.1					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Randee.Arrington@Eurofinset.com		State of Origin: Washington		Page: Page 1 of 1					
Company: Eurofins Frontier Global Sciences LLC				Accreditations Required (See note): State - Washington				Job #: 590-15777-1					
Address: 5755 8th Street East.		Due Date Requested: 9/12/2021		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)					
City: Tacoma		TAT Requested (days):											
State, Zip: WA, 98424		PO #:											
Phone: 253-922-2310(Tel) 425-420-9210(Fax)		WO #:											
Email:		Project #:		Field Filtered Sample (Yes or No)		Perform ICS/MSD (Yes or No)		Total Number of Containers					
Project Name: Port of Chelan County - Cashmere Mill		SSOW#:											
Site:				6020B/3005A (MOD) Arsenic									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform ICS/MSD (Yes or No)		Total Number of Containers		Special Instructions/Note:	
MW-1:082721 (590-15777-19)		8/27/21	11:08 Pacific		Water			X		1			
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: <i>Randee Arrington</i>		Date/Time: 9/1/21 1603		Company: Eurofins		Received by: <i>[Signature]</i>		Date/Time: 9/2/21 0925		Company: EEGS			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:							

Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-15777-1

Login Number: 15777

List Source: Eurofins TestAmerica, Spokane

List Number: 1

Creator: Arrington, Randee E

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



Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-15777-1

Login Number: 15777

List Number: 2

Creator: Blankinship, Tom X

List Source: Eurofins FGS, Seattle

List Creation: 09/02/21 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	False	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

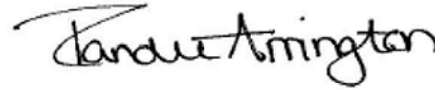
Laboratory Job ID: 590-15783-1

Client Project/Site: Port of Chelan County - Cashmere Mill

For:

GeoEngineers Inc
14 N. Wenatchee Ave.
Suite #115
Wenatchee, Washington 98801

Attn: Nick Rohrbach



*Authorized for release by:
9/15/2021 7:37:37 AM*

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Job ID: 590-15783-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 8/31/2021 8:26 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -1.8° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: B-1 (5-6.5) (590-15783-1), B-4 (1-2) (590-15783-2) and B-6 (2.5-3) (590-15783-3).

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to oil as well as possible biogenic interference in the following samples: B-1 (5-6.5) (590-15783-1), B-4 (1-2) (590-15783-2) and (590-15783-A-1-B DU).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap in the following sample: B-6 (2.5-3) (590-15783-3).

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

Metals

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Sample Summary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15783-1	B-1 (5-6.5)	Solid	08/26/21 11:43	08/31/21 08:26
590-15783-2	B-4 (1-2)	Solid	08/26/21 13:27	08/31/21 08:26
590-15783-3	B-6 (2.5-3)	Solid	08/26/21 14:13	08/31/21 08:26

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Definitions/Glossary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Client Sample ID: B-1 (5-6.5)

Lab Sample ID: 590-15783-1

Date Collected: 08/26/21 11:43

Matrix: Solid

Date Received: 08/31/21 08:26

Percent Solids: 40.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		44		mg/Kg	☼	09/02/21 13:05	09/02/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		41.5 - 162				09/02/21 13:05	09/02/21 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	180		25		mg/Kg	☼	09/01/21 09:42	09/01/21 12:06	1
Residual Range Organics (RRO) (C25-C36)	500		62		mg/Kg	☼	09/01/21 09:42	09/01/21 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				09/01/21 09:42	09/01/21 12:06	1
n-Triacontane-d62	87		50 - 150				09/01/21 09:42	09/01/21 12:06	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		1.2		mg/Kg	☼	09/02/21 11:13	09/03/21 13:40	1
Lead	44		2.8		mg/Kg	☼	09/02/21 11:13	09/03/21 13:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		96		ug/Kg	☼	09/10/21 11:07	09/10/21 16:31	1

Client Sample ID: B-4 (1-2)

Lab Sample ID: 590-15783-2

Date Collected: 08/26/21 13:27

Matrix: Solid

Date Received: 08/31/21 08:26

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		9.1		mg/Kg	☼	09/02/21 13:05	09/02/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		41.5 - 162				09/02/21 13:05	09/02/21 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	66		12		mg/Kg	☼	09/01/21 09:42	09/01/21 12:47	1
Residual Range Organics (RRO) (C25-C36)	160		31		mg/Kg	☼	09/01/21 09:42	09/01/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				09/01/21 09:42	09/01/21 12:47	1
n-Triacontane-d62	90		50 - 150				09/01/21 09:42	09/01/21 12:47	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.93		mg/Kg	☼	09/02/21 11:13	09/03/21 13:44	1
Lead	46		2.2		mg/Kg	☼	09/02/21 11:13	09/03/21 13:44	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Client Sample ID: B-4 (1-2)

Date Collected: 08/26/21 13:27

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-2

Matrix: Solid

Percent Solids: 79.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		52		ug/Kg	☼	09/10/21 11:07	09/10/21 16:34	1

Client Sample ID: B-6 (2.5-3)

Date Collected: 08/26/21 14:13

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-3

Matrix: Solid

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		9.0		mg/Kg	☼	09/02/21 13:05	09/02/21 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		41.5 - 162	09/02/21 13:05	09/02/21 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	24		12		mg/Kg	☼	09/01/21 09:42	09/01/21 13:07	1

Residual Range Organics (RRO) (C25-C36)	210		31		mg/Kg	☼	09/01/21 09:42	09/01/21 13:07	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	09/01/21 09:42	09/01/21 13:07	1
n-Triacontane-d62	85		50 - 150	09/01/21 09:42	09/01/21 13:07	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.1		mg/Kg	☼	09/02/21 11:13	09/03/21 13:48	1

Lead	17		2.6		mg/Kg	☼	09/02/21 11:13	09/03/21 13:48	1
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Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		49		ug/Kg	☼	09/10/21 11:07	09/10/21 16:41	1

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

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

Lab Sample ID: MB 590-32997/1-A
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		09/02/21 13:05	09/02/21 13:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162				09/02/21 13:05	09/02/21 13:15	1

Lab Sample ID: LCS 590-32997/3-A
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	50.0	56.8		mg/Kg		114	74.4 - 124
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		41.5 - 162				

Lab Sample ID: 590-15783-1 DU
Matrix: Solid
Analysis Batch: 32992

Client Sample ID: B-1 (5-6.5)
Prep Type: Total/NA
Prep Batch: 32997

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	ND		ND		mg/Kg	✘	NC	32.3
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	103		41.5 - 162					

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

Lab Sample ID: MB 590-32968/1-A
Matrix: Solid
Analysis Batch: 32970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		09/01/21 09:42	09/01/21 11:25	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		09/01/21 09:42	09/01/21 11:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				09/01/21 09:42	09/01/21 11:25	1
n-Triacontane-d62	88		50 - 150				09/01/21 09:42	09/01/21 11:25	1

Lab Sample ID: LCS 590-32968/2-A
Matrix: Solid
Analysis Batch: 32970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	54.4		mg/Kg		82	50 - 150

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

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

Lab Sample ID: LCS 590-32968/2-A
Matrix: Solid
Analysis Batch: 32970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Residual Range Organics (RRO) (C25-C36)	66.7	60.9		mg/Kg		91	50 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	91		50 - 150				
<i>n</i> -Triacontane-d62	91		50 - 150				

Lab Sample ID: 590-15783-1 DU
Matrix: Solid
Analysis Batch: 32970

Client Sample ID: B-1 (5-6.5)
Prep Type: Total/NA
Prep Batch: 32968

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	180		160		mg/Kg	☼	13	40
Residual Range Organics (RRO) (C25-C36)	500		601		mg/Kg	☼	18	40
Surrogate	%Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	80		50 - 150					
<i>n</i> -Triacontane-d62	90		50 - 150					

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-32986/2-A
Matrix: Solid
Analysis Batch: 33006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3		mg/Kg		09/02/21 11:12	09/03/21 12:45	1
Lead	ND		3.0		mg/Kg		09/02/21 11:12	09/03/21 12:45	1

Lab Sample ID: LCS 590-32986/1-A
Matrix: Solid
Analysis Batch: 33006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	96.5		mg/Kg		97	80 - 120
Lead	50.0	50.4		mg/Kg		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-33083/9-A
Matrix: Solid
Analysis Batch: 33091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50		ug/Kg		09/10/21 11:05	09/10/21 15:43	1

QC Sample Results

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

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

Lab Sample ID: LCS 590-33083/8-A
Matrix: Solid
Analysis Batch: 33091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	200	198		ug/Kg		99	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Client Sample ID: B-1 (5-6.5)

Date Collected: 08/26/21 11:43

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32955	08/31/21 10:42	KBZ	TAL SPK

Client Sample ID: B-1 (5-6.5)

Date Collected: 08/26/21 11:43

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-1

Matrix: Solid

Percent Solids: 40.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.378 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 19:01	JSP	TAL SPK
Total/NA	Prep	3550C			15.15 g	5 mL	32968	09/01/21 09:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32970	09/01/21 12:06	NMI	TAL SPK
Total/NA	Prep	3050B			2.69 g	50 mL	32986	09/02/21 11:13	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 13:40	AMB	TAL SPK
Total/NA	Prep	7471B			0.65 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:31	AMB	TAL SPK

Client Sample ID: B-4 (1-2)

Date Collected: 08/26/21 13:27

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32955	08/31/21 10:42	KBZ	TAL SPK

Client Sample ID: B-4 (1-2)

Date Collected: 08/26/21 13:27

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-2

Matrix: Solid

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.002 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 19:44	JSP	TAL SPK
Total/NA	Prep	3550C			15.33 g	5 mL	32968	09/01/21 09:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32970	09/01/21 12:47	NMI	TAL SPK
Total/NA	Prep	3050B			1.69 g	50 mL	32986	09/02/21 11:13	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 13:44	AMB	TAL SPK
Total/NA	Prep	7471B			0.60 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:34	AMB	TAL SPK

Client Sample ID: B-6 (2.5-3)

Date Collected: 08/26/21 14:13

Date Received: 08/31/21 08:26

Lab Sample ID: 590-15783-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			32955	08/31/21 10:42	KBZ	TAL SPK

Lab Chronicle

Client: GeoEngineers Inc
 Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Client Sample ID: B-6 (2.5-3)

Lab Sample ID: 590-15783-3

Date Collected: 08/26/21 14:13

Matrix: Solid

Date Received: 08/31/21 08:26

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.228 g	10 mL	32997	09/02/21 13:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	32992	09/02/21 20:05	JSP	TAL SPK
Total/NA	Prep	3550C			15.21 g	5 mL	32968	09/01/21 09:42	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32970	09/01/21 13:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.43 g	50 mL	32986	09/02/21 11:13	AMB	TAL SPK
Total/NA	Analysis	6010D		1			33006	09/03/21 13:48	AMB	TAL SPK
Total/NA	Prep	7471B			0.65 g	50 mL	33083	09/10/21 11:07	AMB	TAL SPK
Total/NA	Analysis	7471B		1			33091	09/10/21 16:41	AMB	TAL SPK

Laboratory References:

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



Accreditation/Certification Summary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

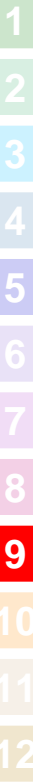
Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)



Method Summary

Client: GeoEngineers Inc
Project/Site: Port of Chelan County - Cashmere Mill

Job ID: 590-15783-1

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
7471B	Mercury (CVAA)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK
7471B	Preparation, Mercury	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



590-15783 Chain of Custody

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>GeoEngineers, Inc.</u>		INVOICE TO: <u>same</u>		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <u>Nick Rohrbach</u> ADDRESS: <u>14 N Wenatchee Ave Ste 115</u> <u>Wenatchee, WA 98801</u>		P.O. NUMBER: <u>18593-001-05</u>									
PHONE: <u>253-722-2797</u> FAX:		PROJECT NAME:		PRESERVATIVE							
PROJECT NUMBER:		PROJECT NUMBER:		REQUESTED ANALYSES							
SAMPLED BY:		SAMPLED BY:		REQUESTED ANALYSES							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH-GX	NWTPH-GX	AS+PB 6010D	Hg PZIR			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 B-1 (5-6.5)	8-26-21 / 1143	X	X	X	X			S	3		
2 B-1 B-4 (1-2)	8-26-21 / 1327	X	X	X	X			S	3		
3 B-1 (2.5-3)	8-26-21 / 1413	X	X	X	X			S	3		
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: <u>Justin Orr</u>	FIRM: <u>GEI</u>	DATE: <u>8/27/21</u>	TIME: <u>1600</u>	RECEIVED BY: <u>Justin Orr</u>	FIRM: <u>GEI</u>	DATE: <u>8/31/21</u>	TIME: <u>1800</u>				
RELEASED BY: <u>Justin Orr</u>	FIRM: <u>GEI</u>	DATE: <u>8/31/21</u>	TIME: <u>0826</u>	RECEIVED BY: <u>Deason M. Brown</u>	FIRM: <u>ECA Spokane</u>	DATE: <u>08/31/21</u>	TIME: <u>0826</u>				
ADDITIONAL REMARKS:								TEMP: <u>1.8 / -1.7</u>	PAGE OF		

TAL-1000 (0612)

Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-15783-1

Login Number: 15783
List Number: 1
Creator: Irons, Nicole M

List Source: Eurofins TestAmerica, Spokane

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

APPENDIX C
Physical Testing Reports

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: GeoEngineers, Inc.
Address: 523 E. 2nd Ave.
Spokane, WA 99202
Attn: Nick Rohrbach

Work Order: WBI0192
Project: Cashmere 24363-002-00
Reported: 9/10/2021 16:30

Analytical Results Report

Sample Location: B-1-4
Lab/Sample Number: WBI0192-01 **Collect Date:** 08/26/21 12:00
Date Received: 09/07/21 16:50 **Collected By:**
Matrix: Soil

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TVS	2.85	%	0.0100	9/9/21 9:00	ARY	SM 2540 G	H3

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: B-5-9
Lab/Sample Number: WBI0192-02 Collect Date: 08/26/21 12:10
Date Received: 09/07/21 16:50 Collected By:
Matrix: Soil

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TVS	2.46	%	0.0100	9/9/21 9:00	ARY	SM 2540 G	H3

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

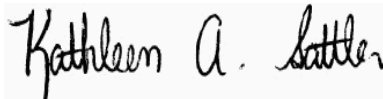
Analytical Results Report

(Continued)

Sample Location: B-11-15
Lab/Sample Number: WBI0192-03 Collect Date: 08/26/21 12:20
Date Received: 09/07/21 16:50 Collected By:
Matrix: Soil

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
TVS	2.26	%	0.0100	9/9/21 9:00	ARY	SM 2540 G	H3

Authorized Signature,



Kathleen Sattler, Laboratory Manager

H3 Sample was received past holding time.
PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBI0242 - W Solids										
Duplicate (BBI0242-DUP1)										
TVS	3.82		0.0100	%		2.85			29.3	200

CHAIN OF CUSTODY RECORD

GeoEngineers
523 EAST SECOND AVE.
SPOKANE, WASHINGTON 99202
(509) 363-3125

WBIO192



Due: 09/13/21

LAB NO. _____

PROJECT NAME/LOCATION						ANALYSIS REQUIRED										NOTES/COMMENTS	
PROJECT NUMBER																(Preserved, filtered, etc.)	
PROJECT MANAGER																<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> </div>	
SAMPLED BY																	
SAMPLE IDENTIFICATION		SAMPLE COLLECTION			# OF JARS	TVS											
LAB	GEOENGINEERS	DATE	TIME	MATRIX													
	B-1-4	8/26/21	1200	Soil	2	✓											3-day turnaround ↓
	B-5-9	8/26/21	1210	Soil	2	✓											
	B-11-15	8/26/21	1220	Soil	2	✓											
																Samples Received out of order	

RELINQUISHED BY SIGNATURE <i>[Signature]</i> PRINTED NAME <i>Bruce Williams</i> DATE <i>9/7/21</i> TIME <i>450</i>	RELINQUISHED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	RELINQUISHED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____
RECEIVED BY SIGNATURE <i>[Signature]</i> PRINTED NAME <i>[Signature]</i> DATE <i>9-7-21</i> TIME <i>1650</i>	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____

ADDITIONAL COMMENTS:
Sent results to bwilliams@geoengineers.com
24.1° nd/nd/NI BOX

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAME	ANALYTE	SURROGATE	TIC	Result	DL	RL	UNITS	RPTtoMDL	BASIS	DILUTION	ANALYST	ANOTE	ANALYTEORDER
GeoEngineers, Inc.	Soil Testing	Cashmere 24363-002-00	Anatek Labs, Inc.- Spokane	B-1-4	WBI0192-01	Solid	Soil	08/26/2021 12:00:00	09/09/2021 08:08:00	09/09/2021 09:00:00	BBI0242	W TVS	SM 2540 G	W Solids	TVS	FALSE	FALSE	2.85	0.0100	0.0100	%	FALSE	NA	1	ARY	H3	1
GeoEngineers, Inc.	Soil Testing	Cashmere 24363-002-00	Anatek Labs, Inc.- Spokane	B-5-9	WBI0192-02	Solid	Soil	08/26/2021 12:10:00	09/09/2021 08:08:00	09/09/2021 09:00:00	BBI0242	W TVS	SM 2540 G	W Solids	TVS	FALSE	FALSE	2.46	0.0100	0.0100	%	FALSE	NA	1	ARY	H3	1
GeoEngineers, Inc.	Soil Testing	Cashmere 24363-002-00	Anatek Labs, Inc.- Spokane	B-11-15	WBI0192-03	Solid	Soil	08/26/2021 12:20:00	09/09/2021 08:08:00	09/09/2021 09:00:00	BBI0242	W TVS	SM 2540 G	W Solids	TVS	FALSE	FALSE	2.26	0.0100	0.0100	%	FALSE	NA	1	ARY	H3	1

LabName	LABSAMPID	QCTYPE	MATRIX	PREPDATE	ANADATE	BATCH	METHODCODE	METHODNAME	PREPNAMEANALYTE	SURROGATTIC	RESULT	DL	RL	UNITS	RPTtoMDL	BASIS	DILUTION	SOURCEID	SOURCERE:RPD	RPDCL	ANALYST	ANALYTEORDER
Anatek Labs, Inc.- Spokane	BBI0242-DUP1	Duplicate	Solid	09/09/2021 09:00:00	09/09/2021 09:00:00	BBI0242	W TVS	SM 2540 G	W Solids TVS	FALSE FALSE	3.82	0.0100	0.0100	%	FALSE	NA	1	WBI0192-01	2.85 29.3	200	ARY	1

QUALIFIER DESCRIPTION

H3 Sample was received past holding time.

APPENDIX D

Report Limitations and Guidelines for Use

APPENDIX D

REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This appendix provides information to help you manage your risks with respect to the use of this report. Please confer with GeoEngineers if you need to know more about how these “Report Limitations and Guidelines for Use” apply to your project or property.

Read These Provisions Closely

It is important to recognize that environmental engineering and geoscience practices (geotechnical engineering, geology and environmental science) are less exact than other engineering and natural science disciplines. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce the risk of misunderstandings or unrealistic expectations that lead to disappointments, claims and disputes.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

GeoEngineers has performed this Site Assessment of Parcel 500 located on Sunset Highway in Cashmere, Washington in general accordance with the scope and limitations of our proposal, dated August 23, 2021. This report has been prepared for the exclusive use of the Chelan Douglas Regional Port Authority. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

GeoEngineers structures its services to meet the specific needs of its clients. For example, an ESA study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and property. Use of this report is not recommended for any purpose or project other than as expressly stated in this report.

This Environmental Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for Chelan Douglas Regional Port Authority for the Parcel 500 site. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this Project. Unless GeoEngineers specifically indicates otherwise, it is important not to rely on this report if it was:

- not prepared for you,
- not prepared for your Project,
- not prepared for the specific site explored, or
- completed before Project changes were made.

If changes to the Project or property occur after the date of this report, GeoEngineers cannot be responsible for any consequences of such changes in relation to this report unless we have been given the opportunity

¹ Developed based on material provided by GBA, GeoProfessional Business Association; www.geoprofessional.org.

to review our interpretations and recommendations in the context of such changes. Based on that review, we can provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the party(ies) to whom this report is addressed. No other party may rely on the product of our services unless we agree to such reliance in advance and in writing. Within the limitations of the agreed Project scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in our scope of service, this report does not provide any geotechnical findings, conclusions, or recommendations, including but not limited to, the suitability of subsurface materials for construction purposes.

Do Not Separate Documentation from the Report

Environmental reports often include supplemental documentation, such as maps, figures and table. Do not separate such documentation from the report. Further, do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.

Environmental Regulations Change and Evolve

Some substances may be present in the vicinity of the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substances, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain Even After This Phase II ESA is Completed

Performance of a Phase II ESA is intended to reduce uncertainty regarding the potential for contamination in connection with a property, but no ESA can wholly eliminate that uncertainty. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by man-made events such as construction on or adjacent to the subject property, by new releases of hazardous substances, new information or technology that become available subsequent to the report date, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Please contact GeoEngineers before applying this report for its intended purpose so that GeoEngineers may evaluate whether changed conditions affect the continued applicability of the report.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other properties or for other on-site uses of the affected soil and/or groundwater. Note that hazardous substances may be present in some of the on-site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject property or reuse of the affected soil or groundwater on-site to evaluate the potential for associated environmental liabilities. GeoEngineers will not assume responsibility for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject property to another location, or the reuse of such soil and/or groundwater on-site in any instances that we did not recommend, know of, or control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the subject property. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied its professional judgment to render an informed opinion about subsurface conditions throughout the property. Actual subsurface conditions may differ significantly from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design documents. Only photographic or electronic reproduction that preserves the entire original boring log is acceptable, but separating logs from the report can create increase the risk of potential misinterpretation.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants, and no conclusions or inferences should be drawn regarding Biological Pollutants as they may relate to this Project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

A Client that desires these specialized services is advised to obtain them from a consultant who offers services in this specialized field.

Information Provided by Others

GeoEngineers has relied upon certain data or information provided or compiled by others in the performance of our services. Although we use sources that we reasonably believe to be trustworthy, GeoEngineers cannot warrant or guarantee the accuracy or completeness of information provided or compiled by others.

