1.888.251.5276
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September 03, 2020
Project No. 20-0591

Freeland and Associates
220 West Champion Street #200
Bellingham, WA 98225

Attn: Tony Freeland, P.E.

Re: Analytical Sampling Results
Queen Mountain Plat
4175 Iron Gate Road
Bellingham, WA 98226
Parcel Number 380308336210

Dear Mr. Freeland,

As requested, GeoTest Services, Inc. [GeoTest] is pleased to submit analytical results related to preliminary screening for the identification of potential contamination of existing site fill soil historically stockpiled within the proposed project location.

PURPOSE AND SCOPE OF SERVICES

The purpose of our services was to perform preliminary environmental sampling of historic fill soils present within the subject site. Our work entailed 5-point composite sampling of fill soils in order to assess the material for the presence of petroleum products, heavy metals, and/or other compound contamination that may be present.

In accordance with Washington State Department of Ecology (DOE) and the United States Environmental Protection Agency (EPA), the fill area, if treated as a stockpile, requires approximately 40 to 50 individual tests based on digital volume estimates which approximate the amount of material present to be between 15,000 and 20,000 cubic yards (cy). As such, composite sampling is intended for preliminary assessment and screening only.

Specifically, the scope of our services included the following:

- GeoTest collected five 5-point composite soil samples from the historic fill material per the DOE's Guidelines for Sampling as outlined in the Guidance for Remediation of Petroleum Contaminated Sites Toxics Cleanup Program.

- Periodic field screening via photo ionization detector during sample collection operations.
- The obtained composite samples were analyzed for the following list of compounds using a qualified independent laboratory:
    - TPH - Gasoline Range Organics with BTEX, MTBE Combination (NWTPH-G_x, EPA 8021)
    - Resource Conservation and Recovery Act (RCRA) Heavy Metals (RCRA-8 Metals, EPA Method 6020) + Chromium III + Hexavalent Chrome (EPA 7196)
    - TPH - Diesel and Oil Range Organics (NWTPH-D_x)
    - Volatile Organic Compounds (VOCs -Includes HVOCs, EPA 8260)
    - Semi-Volatile Organic Compounds (SVOCs, EPA 8270)
    - Polychlorinated Biphenyl Compounds (PCBs, EPA Method 8082)
    - Pesticides
- All soil samples were submitted for analytical testing to ALS Analytical Laboratories, Inc. (ALS) located in Everett, WA. Standard laboratory turnaround time was 10 working days. Please reference the attached analytical sheets for more detail regarding the individual analyses conducted for each sample.

- Compile a summary letter that outlines the site conditions, work performed, sampling results, analytical results, and our conclusions.

FIELD SAMPLING METHODOLOGY

On July 23rd, 2020, GeoTest was on-site to perform 5-point composite soil sampling. Five composite samples were obtained for analysis using pre-cleaned stainless-steel spoons and nitrile gloves.

For the 5-point composite sample collection, the stockpile was divided into five sections. Each section was then divided into five roughly equal sized subsections. Approximately eight ounces of material was selected from each subsection to create a sub-sample. Each portion of the sub-sample was placed into a homogenization container and mixed thoroughly prior to placing into sample jars. The soil was collected from various locations throughout the stockpile using an excavator to expose new sidewall and bottom soils just prior to sampling. This was done to ensure that "fresh" samples were obtained for chemical testing and to reduce the potential loss of volatile contaminants. Samples were obtained using a combination of sidewall sampling and sampling directly from the middle of the excavator bucket. A new pre-cleaned sampling spoon was used to sample at each location, and gloves were changed between each collection point to prevent cross-contamination. Sample depths ranged from one to two feet into the stockpile to upwards of eight feet, the maximum equipment reach of the excavator.

The soil sample containers for Oil and Diesel Total Petroleum Hydrocarbons (TPH-Oil, TPH-Diesel), RCRA 8 metals, SVOC, PAH, PCB, Pesticides, Hexavalent Chromium, and Chromium III consisted of two standard 8-oz wide mouth glass jars with Teflon-lined lids. The soil sample containers for TPH gasoline, BTEX, MTBE, VOC, and HVOC analyses were 40 ml glass vials using a disposable syringe via Method 5035: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples. The sample containers were appropriately prepared with preservatives (as applicable) by the analytical laboratory. Each sample was labeled, immediately placed in a cooler, and chilled to approximately 4 degrees Celsius. The samples were delivered to ALS within 24 hours of field collection. GeoTest followed the DOE recommendation that sample collection, handling, chain of custody records, and protocols be maintained during the process. Standard laboratory analysis required 10 full business days to complete.

Our field screening consisted of a visually inspecting the soils for stains indicative of petroleum-related contaminants, olfactory "sniff" tests for the presence of potential petroleum contamination, and the use of a photoionization detector (PID) to detect the possible presence of VOCs. PID readings at the time of sampling were consistently 0.0 parts per million (PPM).

Photo 1: An excavator was used during sampling to ensure that "fresh" samples were obtained for chemical testing to reduce the potential loss of volatile contaminants.

ANALYTICAL RESULTS

Petroleum Related Contaminants:

TPH-Diesel and TPH-Oil Range organics are present in all samples. The reported levels are below MTCA Method A Clean Up Levels for Industrial Properties. A chromatogram indicates that all samples likely contain an unidentified diesel range product and lube oil. According to Table 12.1 of DOE's Guidance for Remediation of Petroleum Contaminated Sites, the reported levels of petroleum related contaminants present in all samples cause the material to meet the criteria for Soil Category 3.

Semi-Volatile Organic Compounds (Includes Polycyclic Aromatic Hydrocarbons):

SVOCs and PAHs are reported to be present in all five of the composite samples. The reported amounts of analytes present in each sample are below MTCA Method A Clean Up Levels for Industrial Properties.

Metals:

Various RCRA 8 metals were identified in all soil samples; however, metals are naturally occurring and common in all soils. All identified metal concentrations would appear to be consistent with natural background levels expected for the region based on the reference tables provided by DOE and the US Geological Survey.

The following table provides a summary of sampling results:

TABLE 1:
SUMMARY OF LABORATORY ANALYSES
QUEEN MOUNTAIN PLAT
ENVIRONMENTAL SOIL STOCKPILE SAMPLING
All soil sample results and limits are in milligrams per kilogram (MG/KG) or parts per million (ppm).
Please refer to the individual analytical laboratory result sheets for a complete list of analyses and results.

Sample #	Method	Analyte	Results	Action Level
COMP-1	NWTPH-D_x	TPH-Diesel Range	48	100
	NWTPH-D_x	TPH-Oil Range	290	100
	EPA-8270 SIM	Phenanthrene	44	N/A
	EPA-8270 SIM	Fluoranthene	0.210	3,200
	EPA-8270 SIM	Pyrene	0.180	2,400
	EPA-8270 SIM	Benzo(A)Anthracene	0.091	1.37
	EPA-8270 SIM	Chrysene	0.100	137
	EPA-8270 SIM	Benzo(B)Fluoranthene	0.200	1.37
	EPA-8270 SIM	Benzo[K]Fluoranthene	0.067	13.7
	EPA-8270 SIM	Benzo[A]Pyrene	0.120	0.137
	EPA-8270 SIM	Ideno(1,2,3-Cd)Pyrene	0.100	1.37
	EPA-8270	Dibenz(A,H)Anthracene	0.035	0.137
	EPA-8270	Benzo[G,H,I]Perylene	0.180	N/A
	EPA-8270	Pyrene	0.100	2,400
	EPA-8270	Bis(2-Ethylhexyl)Phthalate	0.210	71.42
	EPA-8270	Benzo(B)Fluoranthene	0.160	1.37
	EPA-6020	Mercury*	0.076	20
	EPA-6020	Chromium III*	70	2,000
	EPA-6020	Arsenic*	4.6	20
	EPA-6020	Barium*	84	1,600
	EPA-6020	Cadmium*	0.21	2.0
	EPA-6020	Lead*	24	250
COMP-2	NWTPH-D_x	TPH-Diesel Range	150	100
	NWTPH-D_x	TPH-Oil Range	450	100
	EPA-8270 SIM	Fluorene	0.026	3,200
	EPA-8270 SIM	Phenanthrene	0.065	N/A
	EPA-8270 SIM	Fluoranthene	0.240	3,200
	EPA-8270 SIM	Pyrene	0.035	2,400
	EPA-8270 SIM	Chrysene	0.033	137
	EPA-8270 SIM	Benzo(B)Fluoranthene	0.030	1.37
	EPA-8270 SIM	Ideno(1,2,3-Cd)Pyrene	0.022	0.137
	EPA-8270 SIM	Benzo[G,H,I]Perylene	0.030	N/A
	EPA-6020	Mercury*	0.038	20
	EPA-6020	Chromium III*	43	2,000
	EPA-6020	Arsenic*	4.5	20
	EPA-6020	Barium*	120	1,600
	EPA-6020	Cadmium*	0.19	2.0
	EPA-6020	Lead*	9.9	250

TABLE 1 (cont.):
SUMMARY OF LABORATORY ANALYSES
QUEEN MOUNTAIN PLAT
ENVIRONMENTAL SOIL STOCKPILE SAMPLING

All soil sample results and limits are in milligrams per kilogram (MG/KG) or parts per million (ppm).
Please refer to the individual analytical laboratory result sheets for a complete list of analyses and results.

Sample #	Method	Analyte	Results	Action Level
COMP-3	NWTPH-D_x	TPH-Diesel Range	83	100
	NWTPH-D_x	TPH-Oil Range	390	100
	EPA-8270 SIM	Fluorene	0.032	3,200
	EPA-8270 SIM	Phenanthrene	0.070	N/A
	EPA-8270 SIM	Fluoranthene	0.170	3,200
	EPA-8270 SIM	Pyrene	0.050	2,400
	EPA-8270 SIM	Benzo(A)Anthracene	0.027	1.37
	EPA-8270 SIM	Chrysene	0.052	137
	EPA-8270 SIM	Benzo(B)Fluoranthene	0.060	1.37
	EPA-8270 SIM	Benzo[A]Pyrene	0.030	0.137
	EPA-8270 SIM	Ideno(1,2,3-Cd)Pyrene	0.025	0.137
	EPA-8270 SIM	Benzo[G,H,I]Perylene	0.037	N/A
	EPA-6020	Mercury*	0.075	20
	EPA-6020	Chromium III*	44	2,000
	EPA-6020	Arsenic*	5.4	20
	EPA-6020	Barium*	160	1,600
	EPA-6020	Cadmium*	0.33	2.0
	EPA-6020	Lead*	22	250
	EPA-6020	Silver	0.14	400
COMP-4	NWTPH-G_x	TPH-Volatile Range	6.3	100
	NWTPH-D_x	TPH-Diesel Range	62	100
	NWTPH-D_x	TPH-Oil Range	370	100
	EPA-8270 SIM	Phenanthrene	0.034	N/A
	EPA-8270 SIM	Fluoranthene	0.120	3,200
	EPA-8270 SIM	Pyrene	0.069	2,400
	EPA-8270 SIM	Benzo(A)Anthracene	0.040	1.37
	EPA-8270 SIM	Chrysene	0.053	137
	EPA-8270 SIM	Benzo(B)Fluoranthene	0.074	1.37
	EPA-8270 SIM	Benzo[K]Fluoranthene	0.025	13.7
	EPA-8270 SIM	Benzo[A]Pyrene	0.043	0.137
	EPA-8270	Ideno(1,2,3-Cd)Pyrene	0.035	1.37
	EPA-8270	Benzo[G,H,I]Perylene	0.053	N/A
	EPA-8270	Benzyl Alcohol	0.470	8,000
	EPA-8270	2-Methylphenol	0.300	4,000
	EPA-8082	Bis(2-Ethylhexyl)Phthalate	0.280	1,600
	EPA-6020	Mercury*	0.057	20
	EPA-6020	Chromium III*	45	2,000
	EPA-6020	Arsenic*	7.6	20
	EPA-6020	Barium*	220	1,600
	EPA-6020	Cadmium*	0.29	2.0
	EPA-6020	Lead*	26	250

TABLE 1 (cont.):
SUMMARY OF LABORATORY ANALYSES
QUEEN MOUNTAIN PLAT
ENVIRONMENTAL SOIL STOCKPILE SAMPLING

All soil sample results and limits are in milligrams per kilogram (MG/KG) or parts per million (ppm).
Please refer to the individual analytical laboratory result sheets for a complete list of analyses and results.

Sample #	Method	Analyte	Results	Action Level
COMP-5	NWTPH-D_x	TPH-Diesel Range	82	100
	NWTPH-D_x	TPH-Oil Range	400	100
	EPA-8270 SIM	Naphthalene	0.120	5
	EPA-8270 SIM	Acenaphthene	29	4,800
	EPA-8270 SIM	Fluorene	0.040	4,800
	EPA-8270 SIM	Phenanthrene	0.088	N/A
	EPA-8270 SIM	Fluoranthene	0.220	3,200
	EPA-8270 SIM	Pyrene	0.082	2,400
	EPA-8270 SIM	Benzo(A)Anthracene	0.031	1.37
	EPA-8270 SIM	Chrysene	0.051	137
	EPA-8270 SIM	Benzo(B)Fluoranthene	0.062	1.37
	EPA-8270 SIM	Benzo[A]Pyrene	0.025	0.137
	EPA-8270 SIM	Ideno(1,2,3-Cd)Pyrene	0.026	1.37
	EPA-8270	Benzo[G,H,I]Perylene	0.036	N/A
	EPA-6020	Mercury*	0.075	20
	EPA-6020	Chromium III*	37	2,000
	EPA-6020	Arsenic*	16	20
	EPA-6020	Barium*	130	1,600
	EPA-6020	Cadmium*	0.40	2.0
	EPA-6020	Lead*	27	250

Key:

Highlighted - Indicates analyte present in levels requiring a DOE Soil Category Designation, but below the referenced cleanup action level.

N/A – No Action Level given for either MTCA Method A or CLARC Method B where applicable.

* RCRA 8 + Chromium III analytical results are near the natural background levels expected for the geographic region per the Natural Background Soil Metals Concentrations in Washington State report published by the Washington State Department of Ecology in 1994 and the Background Concentrations of Metals in Soils from Selected Regions in the State of Washington published by the US Geological Survey in 1985.

CONCLUSIONS

As requested, GeoTest conducted preliminary five-point composite soil sampling of historic uncontrolled fill material located within the proposed project site. Based on the analytical laboratory results reported, the excavated materials meet the criteria for Soil Category 3 as outlined by Table 12.1 of DOE's *Guidance for Remediation of Petroleum Contaminated Sites.* In order to adequately characterize the stockpile, GeoTest recommends a comprehensive environmental soils investigation be performed based on the sampling frequency as recommended by the DOE.

Material Reuse

The above referenced document classifies the soils sampled to be Soil Category 3 based on the reported level of Diesel and Oil Range Organics and carcinogenic Polycyclic Aromatic Hydrocarbons. Category 3 soils are comprised of soil with moderate levels of residual petroleum

contamination that may have adverse impacts on the environment unless re-used in carefully controlled situations. These soils are suitable as paving base material and for road construction, based on contamination levels, however the volume of organic material present in the stockpile excludes it from reuse in structural areas from a geotechnical engineering perspective.

Category 3 Acceptable Uses:

- Any use allowed for Category 4 soils.
- Use as pavement base material under public and private paved streets and roads.
- Use as pavement base material under commercial and industrial parking lots.

Category 3 Limitations:

- Should be placed above the highest anticipated high-water table. If seasonal groundwater elevation information is not available, place at least 10 feet above the current water table.
- Should be a maximum of 2 feet thick to minimize potential for leaching or vapor impacts.
- Should not be placed within 100 feet of any private drinking water well or within the 10-year wellhead protection area of a public water supply well.
- Should not be placed in or directly adjacent to wetlands or surface water.
- Should not be placed under a surface water infiltration facility or septic drain fields.
- When exposed, runoff from area in use should be contained or treated to prevent entrance to storm drains, surface water, or wetlands.
- Any other limitations defined in state or local regulations.

Alternately, Category 3 soil can be hauled off site and thermally treated at an accepted facility. Prior to any soils being hauled to their facility, we recommend that the attached soil sampling results be provided to the selected waste disposal company for their review and approval.

LIMITATIONS

Our conclusions are based on the described data and site visit. Our study area included the areas of the site described in this report only. We assume the encountered conditions are representative of the subject stockpiles sampled on this date.

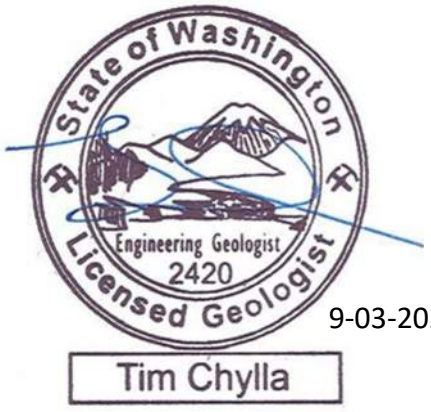
However, the client should be aware that conditions may vary between sampling locations. We have prepared this report exclusively for the use of Freeland and Associates and their representatives.

Use of this report by others is at their own risk. The information contained herein is not applicable to other sites.

The analyses, conclusions, and recommendations provided in this report are based on sampling performed by GeoTest Services, Inc., State/Federal regulatory guidelines, and GeoTest's experience and judgment. Our work has been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in this area. No warranty, expressed or implied, is made.

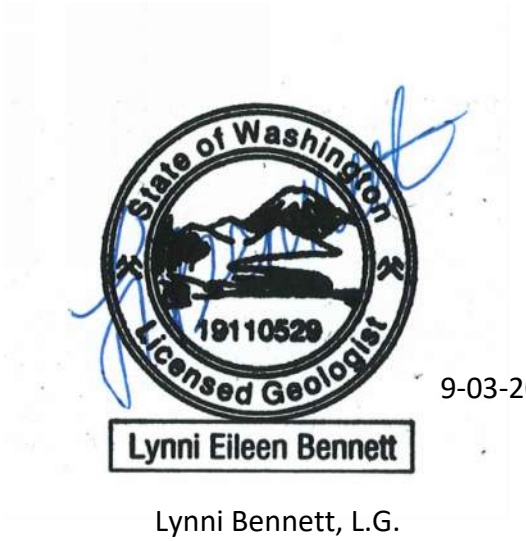
As a condition of our services, it is understood that, to the fullest extent permitted by law, our clients agree to defend, indemnify, and hold harmless GeoTest Services, Inc. its owners, employees, subcontractors, and agents, from any (past, present, or future) pollution-related claims or damages at the site, including potential claims from third parties that may name GeoTest Services, Inc. as a claimant.

Respectfully Submitted,
GeoTest Services, Inc.



9-03-2020

Tim Chylla, L.E.G.
Environmental Professional



9-03-2020

Lynni Bennett, L.G.
Environmental Professional

Attachments:
Figure 1: Site Location and Vicinity
Figure 2: Approximate Stockpile Location
ALS Analytical Results (50 pages)
DOE Tables 12.1 and 12.2

REFERENCES

ALS Laboratory Group. (2020, August 13). ALS Project Number EV20080025.

Ames, K. C. (1995). *Background Concentrations of Metals in Soils from Selected Regions in the State of Washington.* Tacoma: Us. Department of the Interior.

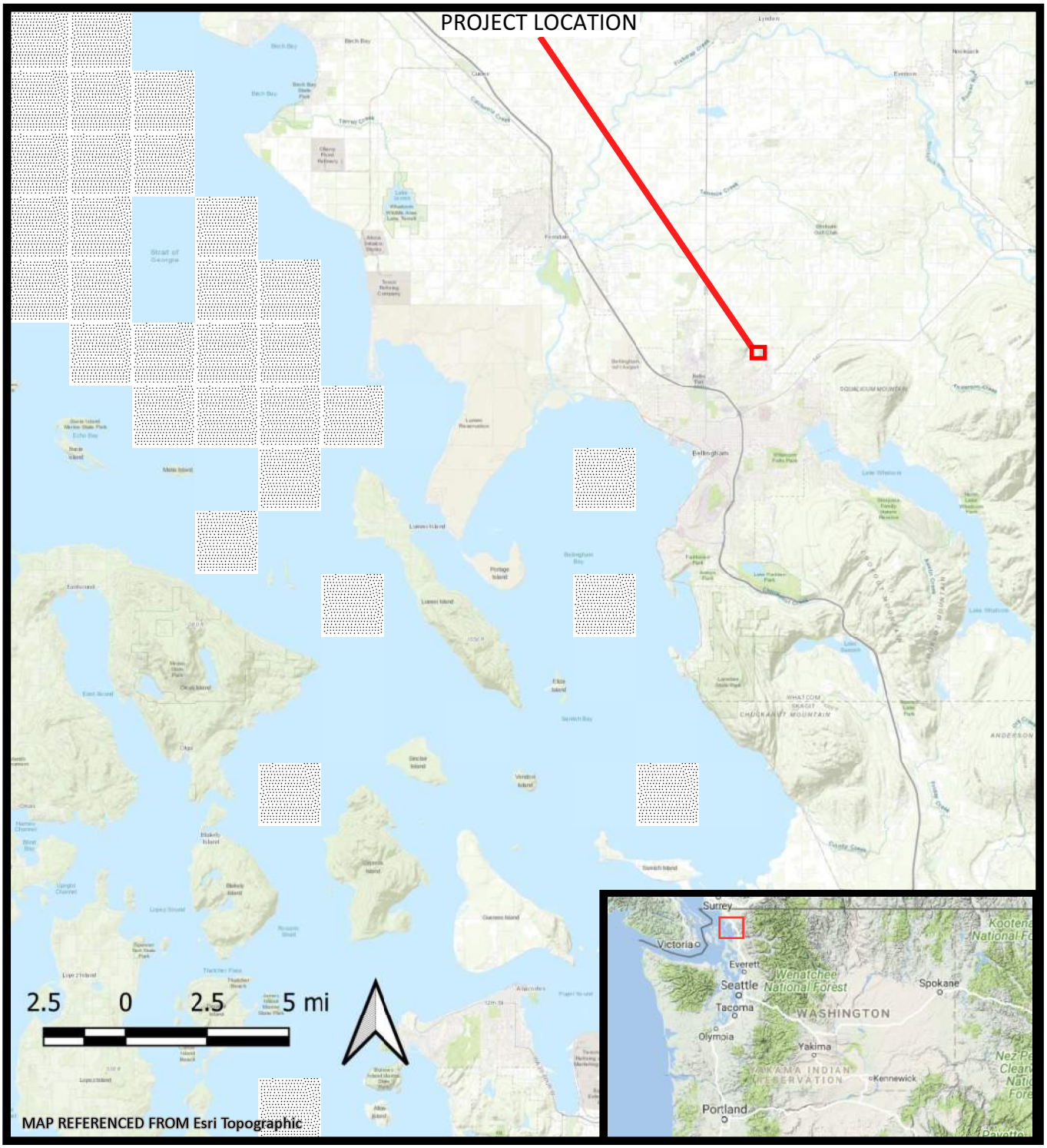
Naval Facilities Engineering Command (NAVFAC). (n.d.). Soil Reuse and Disposal for NASWI.

Shacklette, H. T. (1984). *Element Concentrations in Soils and other Surficial Materials of the Coterminous United States.* Washington: United States Government Printing Office.

Washington State Department of Ecology. (2016). *Guidance for Remediation of Petroleum Contaminated Sites.* Washington State Department of Ecology.

Washington State Department of Ecology. (2020, January). Cleanup Levels and Risk Calculation (CLARC). *Master Spreadsheet*. Washington State Department of Ecology.

Washington State Department of Ecology. (n.d.). *Model Toxics Control Act (MTCA) Statute and Regulation Chapter 70-105D RCW, 173-340 WAC.* Olympia: Publication No. 94-06. Retrieved August 19, 2020.



GEOTEST	Date: 7.28.2020	By: NGD	Scale: As Shown

VICINITY MAP

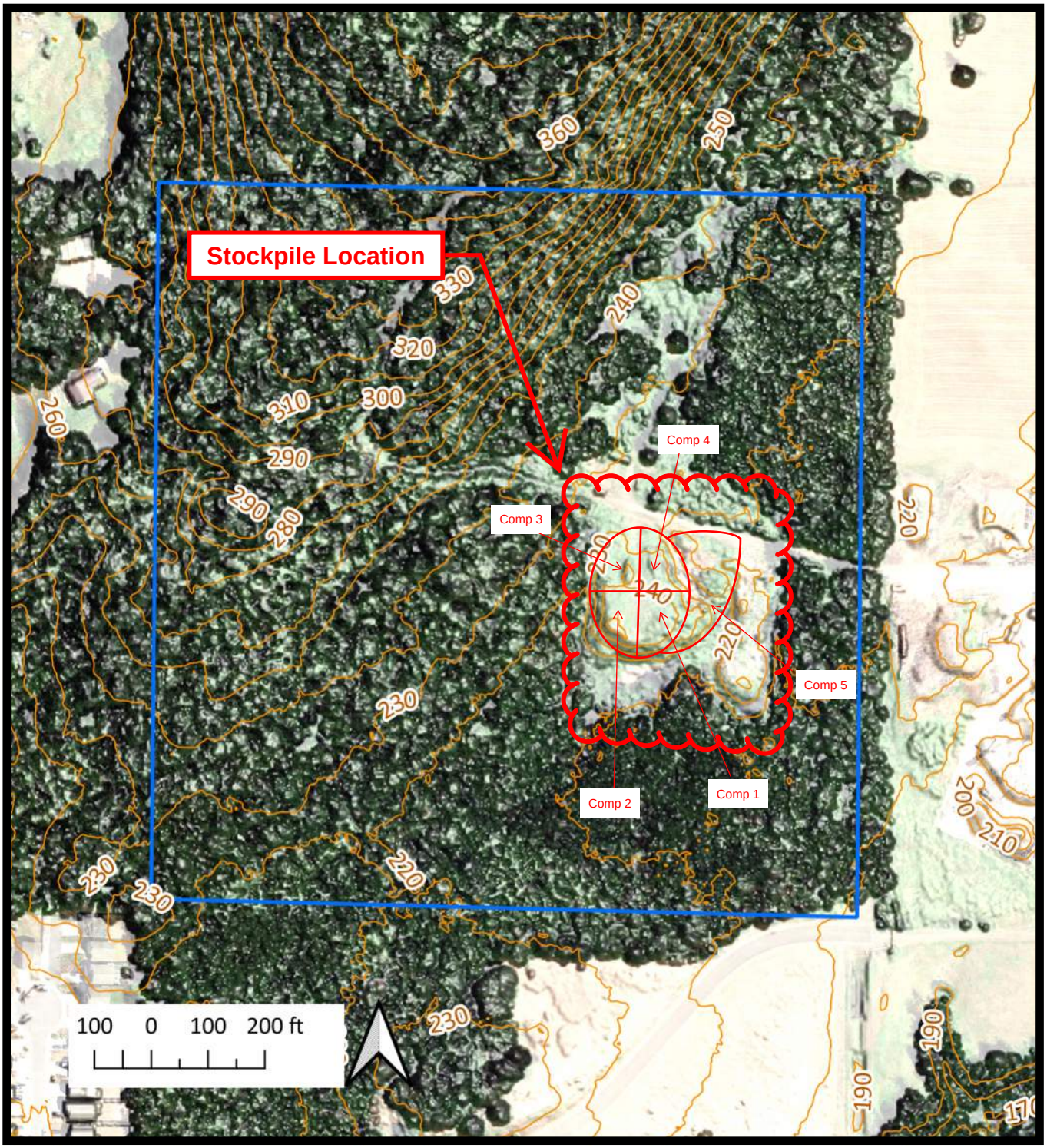
QUEEN MOUNTAIN PLAT

4175 IRON GATE ROAD

BELLINGHAM, WA 98226

Project **20-0591**

Figure **1**



GEOTEST	Date: 7.28.2020	By: NGD	Scale: As Shown
	POTHOLING AND SAMPLING PLAN QUEEN MOUNTAIN PLAT 4175 IRON GATE ROAD BELLINGHAM, WA 98226		Project 20-0591 Figure 2

August 6, 2020

Ms. Lynni Bennett
Geotest Services, Inc.
741 Marine Dr.
Bellingham, WA 98225

Dear Ms. Bennett,

On July 24th, 5 samples were received by our laboratory and assigned our laboratory project number EV20070106. The project was identified as your 20-0591 Queen MT.. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	07/28/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	07/28/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/28/2020	KLS
TPH-Diesel Range	NWTPH-DX	**48**	25	1	MG/KG	07/30/2020	EBS
TPH-Oil Range	NWTPH-DX	**290**	50	1	MG/KG	07/30/2020	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Acetone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Toluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Styrene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Phenanthrene	EPA-8270 SIM	**44**	20	1	UG/KG	07/25/2020	JMK
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Fluoranthene	EPA-8270 SIM	**210**	20	1	UG/KG	07/25/2020	JMK
Pyrene	EPA-8270 SIM	**180**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	**91**	20	1	UG/KG	07/25/2020	JMK
Chrysene	EPA-8270 SIM	**100**	20	1	UG/KG	07/25/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	**200**	20	1	UG/KG	07/25/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	**67**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	**120**	20	1	UG/KG	07/25/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**100**	20	1	UG/KG	07/25/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	**35**	20	1	UG/KG	07/25/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	**160**	20	1	UG/KG	07/25/2020	JMK
Pyridine	EPA-8270	U	200	1	UG/KG	08/05/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Phenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Aniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
Phenanthrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pyrene	EPA-8270	**100**	100	1	UG/KG	08/05/2020	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chrysene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	**210**	100	1	UG/KG	08/05/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	**160**	100	1	UG/KG	08/05/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Chlordane	EPA-8082	U	0.50	1	MG/KG	07/31/2020	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Total PCBs	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
A-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
G-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
B-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
D-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Aldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Chlordane	EPA-8081	U	0.020	1	MG/KG	08/03/2020	JMK
Endosulfan I	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Dieldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan II	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Methoxychlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Toxaphene	EPA-8081	U	0.50	1	MG/KG	08/03/2020	JMK
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	08/06/2020	JNF

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-01
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 1:30:00 PM
CLIENT SAMPLE ID	Comp-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	**0.076**	0.020	1	MG/KG	07/24/2020	RAL
Chromium (III)	Calc-Cr3	**70**	0.50	1	MG/KG	07/24/2020	RAL
Arsenic	EPA-6020	**4.6**	0.20	1	MG/KG	07/24/2020	RAL
Barium	EPA-6020	**84**	0.10	1	MG/KG	07/24/2020	RAL
Cadmium	EPA-6020	**0.21**	0.10	1	MG/KG	07/24/2020	RAL
Chromium	EPA-6020	**70**	0.10	1	MG/KG	07/24/2020	RAL
Lead	EPA-6020	**24**	0.10	1	MG/KG	07/24/2020	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	07/24/2020	RAL
Silver	EPA-6020	U	0.10	1	MG/KG	07/24/2020	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**91.7**	07/28/2020	KLS
TFT	EPA-8021	**90.1**	07/28/2020	KLS
C25	NWTPH-DX	**105**	07/30/2020	EBS
1,2-Dichloroethane-d4	EPA-8260	**109**	07/30/2020	DLC
Toluene-d8	EPA-8260	**101**	07/30/2020	DLC
4-Bromofluorobenzene	EPA-8260	**119**	07/30/2020	DLC
Terphenyl-d14	EPA-8270 SIM	**108**	07/25/2020	JMK
2-Fluorophenol	EPA-8270	**104**	08/05/2020	JMK
Phenol-d5	EPA-8270	**99.8**	08/05/2020	JMK
Nitrobenzene-d5	EPA-8270	**69.5**	08/05/2020	JMK
2-Fluorobiphenyl	EPA-8270	**84.2**	08/05/2020	JMK
2,4,6-Tribromophenol	EPA-8270	**96.7**	08/05/2020	JMK
Terphenyl-d14	EPA-8270	**85.4**	08/05/2020	JMK
TCMX	EPA-8082	**80.6**	07/31/2020	JMK
DCB	EPA-8082	**81.1**	07/31/2020	JMK
TCMX	EPA-8081	**67.9**	08/03/2020	JMK
DCB	EPA-8081	**65.9**	08/03/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and lube oil.
Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-02
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	5.0	1	MG/KG	07/28/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	07/28/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/28/2020	KLS
TPH-Diesel Range	NWTPH-DX	**150**	50	2	MG/KG	07/30/2020	EBS
TPH-Oil Range	NWTPH-DX	**450**	100	2	MG/KG	07/30/2020	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Acetone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Toluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-02
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Styrene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-02
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluorene	EPA-8270 SIM	**26**	20	1	UG/KG	07/25/2020	JMK
Phenanthrene	EPA-8270 SIM	**65**	20	1	UG/KG	07/25/2020	JMK
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Fluoranthene	EPA-8270 SIM	**240**	20	1	UG/KG	07/25/2020	JMK
Pyrene	EPA-8270 SIM	**35**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Chrysene	EPA-8270 SIM	**33**	20	1	UG/KG	07/25/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	**30**	20	1	UG/KG	07/25/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**22**	20	1	UG/KG	07/25/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	**30**	20	1	UG/KG	07/25/2020	JMK
Pyridine	EPA-8270	U	200	1	UG/KG	08/05/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Phenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Aniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,6-Dichlorophenol	EPA-8270	U	260	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-02
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
Phenanthrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Chrysene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-02
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Chlordane	EPA-8082	U	0.50	1	MG/KG	07/31/2020	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Total PCBs	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
A-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
G-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
B-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
D-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Aldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Chlordane	EPA-8081	U	0.020	1	MG/KG	08/03/2020	JMK
Endosulfan I	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Dieldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan II	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Methoxychlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Toxaphene	EPA-8081	U	0.50	1	MG/KG	08/03/2020	JMK
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	08/06/2020	JNF
Mercury	EPA-7471	**0.038**	0.020	1	MG/KG	07/24/2020	RAL

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CERTIFICATE OF ANALYSIS

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CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:00:00 PM
CLIENT SAMPLE ID	Comp-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (III)	Calc-Cr3	**43**	0.50	1	MG/KG	07/24/2020	RAL
Arsenic	EPA-6020	**4.5**	0.20	1	MG/KG	07/24/2020	RAL
Barium	EPA-6020	**120**	0.10	1	MG/KG	07/24/2020	RAL
Cadmium	EPA-6020	**0.19**	0.10	1	MG/KG	07/24/2020	RAL
Chromium	EPA-6020	**43**	0.10	1	MG/KG	07/24/2020	RAL
Lead	EPA-6020	**9.9**	0.10	1	MG/KG	07/24/2020	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	07/24/2020	RAL
Silver	EPA-6020	U	0.10	1	MG/KG	07/24/2020	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**88.8**	07/28/2020	KLS
TFT	EPA-8021	**79.3**	07/28/2020	KLS
C25 2X Dilution	NWTPH-DX	**125**	07/30/2020	EBS
1,2-Dichloroethane-d4	EPA-8260	**107**	07/30/2020	DLC
Toluene-d8	EPA-8260	**100**	07/30/2020	DLC
4-Bromofluorobenzene	EPA-8260	**115**	07/30/2020	DLC
Terphenyl-d14	EPA-8270 SIM	**93.9**	07/25/2020	JMK
2-Fluorophenol	EPA-8270	**103**	08/05/2020	JMK
Phenol-d5	EPA-8270	**97.8**	08/05/2020	JMK
Nitrobenzene-d5	EPA-8270	**68.0**	08/05/2020	JMK
2-Fluorobiphenyl	EPA-8270	**82.9**	08/05/2020	JMK
2,4,6-Tribromophenol	EPA-8270	**99.9**	08/05/2020	JMK
Terphenyl-d14	EPA-8270	**84.7**	08/05/2020	JMK
TCMX	EPA-8082	**81.2**	07/31/2020	JMK
DCB	EPA-8082	**80.4**	07/31/2020	JMK
TCMX	EPA-8081	**69.2**	08/03/2020	JMK
DCB	EPA-8081	**72.3**	08/03/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.
Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-03
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:30:00 PM
CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	07/28/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	07/28/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/28/2020	KLS
TPH-Diesel Range	NWTPH-DX	**83**	50	2	MG/KG	07/30/2020	EBS
TPH-Oil Range	NWTPH-DX	**390**	100	2	MG/KG	07/30/2020	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Acetone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Toluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-03
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:30:00 PM
CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Styrene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthene	EPA-8270 SIM	**32**	20	1	UG/KG	07/25/2020	JMK

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CERTIFICATE OF ANALYSIS

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CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:30:00 PM
CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluorene	EPA-8270 SIM	**32**	20	1	UG/KG	07/25/2020	JMK
Phenanthrene	EPA-8270 SIM	**70**	20	1	UG/KG	07/25/2020	JMK
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Fluoranthene	EPA-8270 SIM	**170**	20	1	UG/KG	07/25/2020	JMK
Pyrene	EPA-8270 SIM	**50**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	**27**	20	1	UG/KG	07/25/2020	JMK
Chrysene	EPA-8270 SIM	**52**	20	1	UG/KG	07/25/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	**60**	20	1	UG/KG	07/25/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	**30**	20	1	UG/KG	07/25/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**25**	20	1	UG/KG	07/25/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	**37**	20	1	UG/KG	07/25/2020	JMK
Pyridine	EPA-8270	U	200	1	UG/KG	08/05/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Phenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Aniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,6-Dichlorophenol	EPA-8270	U	270	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-03
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:30:00 PM
CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1-Methylnaphthalene	EPA-8270	U	260	1	UG/KG	08/05/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
Phenanthrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Chrysene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-03
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 2:30:00 PM
CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Chlordane	EPA-8082	U	0.50	1	MG/KG	07/31/2020	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Total PCBs	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
A-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
G-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
B-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
D-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Aldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Chlordane	EPA-8081	U	0.020	1	MG/KG	08/03/2020	JMK
Endosulfan I	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Dieldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan II	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Methoxychlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Toxaphene	EPA-8081	U	0.50	1	MG/KG	08/03/2020	JMK
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	08/06/2020	JNF
Mercury	EPA-7471	**0.075**	0.020	1	MG/KG	07/24/2020	RAL

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CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
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CLIENT SAMPLE ID	Comp-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (III)	Calc-Cr3	**44**	0.50	1	MG/KG	07/24/2020	RAL
Arsenic	EPA-6020	**5.4**	0.20	1	MG/KG	07/24/2020	RAL
Barium	EPA-6020	**160**	0.10	1	MG/KG	07/24/2020	RAL
Cadmium	EPA-6020	**0.33**	0.10	1	MG/KG	07/24/2020	RAL
Chromium	EPA-6020	**44**	0.10	1	MG/KG	07/24/2020	RAL
Lead	EPA-6020	**22**	0.10	1	MG/KG	07/24/2020	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	07/24/2020	RAL
Silver	EPA-6020	**0.14**	0.10	1	MG/KG	07/24/2020	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**71.4**	07/28/2020	KLS
TFT	EPA-8021	**84.1**	07/28/2020	KLS
C25 2X Dilution	NWTPH-DX	**130**	07/30/2020	EBS
1,2-Dichloroethane-d4	EPA-8260	**108**	07/30/2020	DLC
Toluene-d8	EPA-8260	**102**	07/30/2020	DLC
4-Bromofluorobenzene	EPA-8260	**125 SQ2**	07/30/2020	DLC
Terphenyl-d14	EPA-8270 SIM	**94.5**	07/25/2020	JMK
2-Fluorophenol	EPA-8270	**101**	08/05/2020	JMK
Phenol-d5	EPA-8270	**97.4**	08/05/2020	JMK
Nitrobenzene-d5	EPA-8270	**66.5**	08/05/2020	JMK
2-Fluorobiphenyl	EPA-8270	**82.9**	08/05/2020	JMK
2,4,6-Tribromophenol	EPA-8270	**101**	08/05/2020	JMK
Terphenyl-d14	EPA-8270	**89.3**	08/05/2020	JMK
TCMX	EPA-8082	**77.9**	07/31/2020	JMK
DCB	EPA-8082	**76.2**	07/31/2020	JMK
TCMX	EPA-8081	**67.4**	08/03/2020	JMK
DCB	EPA-8081	**73.7**	08/03/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.
SQ2 - Spike outside of control limits due to matrix effect.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and lube oil.
Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-04
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:00:00 PM
CLIENT SAMPLE ID	Comp-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**6.3**	3.0	1	MG/KG	07/28/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	07/28/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/28/2020	KLS
TPH-Diesel Range	NWTPH-DX	**62**	50	2	MG/KG	07/30/2020	EBS
TPH-Oil Range	NWTPH-DX	**370**	100	2	MG/KG	07/30/2020	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Acetone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Toluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC

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CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:00:00 PM
CLIENT SAMPLE ID	Comp-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Styrene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK

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SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Phenanthrene	EPA-8270 SIM	**34**	20	1	UG/KG	07/25/2020	JMK
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Fluoranthene	EPA-8270 SIM	**120**	20	1	UG/KG	07/25/2020	JMK
Pyrene	EPA-8270 SIM	**69**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	**40**	20	1	UG/KG	07/25/2020	JMK
Chrysene	EPA-8270 SIM	**53**	20	1	UG/KG	07/25/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	**74**	20	1	UG/KG	07/25/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	**25**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	**43**	20	1	UG/KG	07/25/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**35**	20	1	UG/KG	07/25/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	**53**	20	1	UG/KG	07/25/2020	JMK
Pyridine	EPA-8270	U	200	1	UG/KG	08/05/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Phenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Aniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzyl Alcohol	EPA-8270	**470**	100	1	UG/KG	08/05/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Methylphenol	EPA-8270	**300**	100	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK

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SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Acenaphthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	08/05/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	08/05/2020	JMK
Phenanthrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	08/05/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Chrysene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK

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SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	**280**	100	1	UG/KG	08/05/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	08/05/2020	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Chlordane	EPA-8082	U	0.50	1	MG/KG	07/31/2020	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Total PCBs	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
A-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
G-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
B-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
D-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Aldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Chlordane	EPA-8081	U	0.020	1	MG/KG	08/03/2020	JMK
Endosulfan I	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Dieldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan II	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Methoxychlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Toxaphene	EPA-8081	U	0.50	1	MG/KG	08/03/2020	JMK
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	08/06/2020	JNF
Mercury	EPA-7471	**0.057**	0.020	1	MG/KG	07/24/2020	RAL

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-04
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:00:00 PM
CLIENT SAMPLE ID	Comp-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (III)	Calc-Cr3	**45**	0.50	1	MG/KG	07/24/2020	RAL
Arsenic	EPA-6020	**7.6**	0.20	1	MG/KG	07/24/2020	RAL
Barium	EPA-6020	**220**	0.10	1	MG/KG	07/24/2020	RAL
Cadmium	EPA-6020	**0.29**	0.10	1	MG/KG	07/24/2020	RAL
Chromium	EPA-6020	**45**	0.10	1	MG/KG	07/24/2020	RAL
Lead	EPA-6020	**26**	0.10	1	MG/KG	07/24/2020	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	07/24/2020	RAL
Silver	EPA-6020	**0.25**	0.10	1	MG/KG	07/24/2020	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**93.7**	07/28/2020	KLS
TFT	EPA-8021	**85.8**	07/28/2020	KLS
C25 2X Dilution	NWTPH-DX	**114**	07/30/2020	EBS
1,2-Dichloroethane-d4	EPA-8260	**108**	07/30/2020	DLC
Toluene-d8	EPA-8260	**103**	07/30/2020	DLC
4-Bromofluorobenzene	EPA-8260	**126 SQ2**	07/30/2020	DLC
Terphenyl-d14	EPA-8270 SIM	**87.3**	07/25/2020	JMK
2-Fluorophenol	EPA-8270	**106**	08/05/2020	JMK
Phenol-d5	EPA-8270	**101**	08/05/2020	JMK
Nitrobenzene-d5	EPA-8270	**69.5**	08/05/2020	JMK
2-Fluorobiphenyl	EPA-8270	**87.2**	08/05/2020	JMK
2,4,6-Tribromophenol	EPA-8270	**107**	08/05/2020	JMK
Terphenyl-d14	EPA-8270	**91.9**	08/05/2020	JMK
TCMX	EPA-8082	**84.8**	07/31/2020	JMK
DCB	EPA-8082	**81.8**	07/31/2020	JMK
TCMX	EPA-8081	**73.0**	08/03/2020	JMK
DCB	EPA-8081	**72.5**	08/03/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.
SQ2 - Spike outside of control limits due to matrix effect.
Chromatogram indicates that it is likely that sample contains an unidentified gasoline range product, an unidentified diesel range product and lube oil. Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	07/28/2020	KLS
Benzene	EPA-8021	U	0.030	1	MG/KG	07/28/2020	KLS
Toluene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/28/2020	KLS
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/28/2020	KLS
TPH-Diesel Range	NWTPH-DX	**82**	25	1	MG/KG	07/30/2020	EBS
TPH-Oil Range	NWTPH-DX	**400**	50	1	MG/KG	07/30/2020	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Acetone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
Toluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/30/2020	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/30/2020	DLC
Styrene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/30/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/30/2020	DLC
Naphthalene	EPA-8270 SIM	**120**	20	1	UG/KG	07/25/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Acenaphthene	EPA-8270 SIM	**29**	20	1	UG/KG	07/25/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluorene	EPA-8270 SIM	**40**	20	1	UG/KG	07/25/2020	JMK
Phenanthrene	EPA-8270 SIM	**88**	20	1	UG/KG	07/25/2020	JMK
Anthracene	EPA-8270 SIM	**22**	20	1	UG/KG	07/25/2020	JMK
Fluoranthene	EPA-8270 SIM	**220**	20	1	UG/KG	07/25/2020	JMK
Pyrene	EPA-8270 SIM	**82**	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	**31**	20	1	UG/KG	07/25/2020	JMK
Chrysene	EPA-8270 SIM	**51**	20	1	UG/KG	07/25/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	**64**	20	1	UG/KG	07/25/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	**25**	20	1	UG/KG	07/25/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**26**	20	1	UG/KG	07/25/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	07/25/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	**36**	20	1	UG/KG	07/25/2020	JMK
Pyridine	EPA-8270	U	200	1	UG/KG	08/06/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Phenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Aniline	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Isophorone	EPA-8270	U	120	1	UG/KG	08/06/2020	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	110	1	UG/KG	08/06/2020	JMK
Benzoic Acid	EPA-8270	U	1200	1	UG/KG	08/06/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	08/06/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	120	1	UG/KG	08/06/2020	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	08/06/2020	JMK
2,6-Dichlorophenol	EPA-8270	U	310	1	UG/KG	08/06/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	08/06/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	540	1	UG/KG	08/06/2020	JMK
2-Methylnaphthalene	EPA-8270	U	260	1	UG/KG	08/06/2020	JMK
1-Methylnaphthalene	EPA-8270	U	300	1	UG/KG	08/06/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Acenaphthene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	08/06/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	08/06/2020	JMK
Phenanthrene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	08/06/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Fluoranthene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Pyrene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	290	1	UG/KG	08/06/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Chrysene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	08/06/2020	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Chlordane	EPA-8082	U	0.50	1	MG/KG	07/31/2020	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
Total PCBs	EPA-8082	U	0.10	1	MG/KG	07/31/2020	JMK
A-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
G-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
B-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
D-BHC	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Aldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Chlordane	EPA-8081	U	0.020	1	MG/KG	08/03/2020	JMK
Endosulfan I	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Dieldrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan II	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Methoxychlor	EPA-8081	U	0.010	1	MG/KG	08/03/2020	JMK
Toxaphene	EPA-8081	U	0.50	1	MG/KG	08/03/2020	JMK
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	08/06/2020	JNF
Mercury	EPA-7471	**0.075**	0.020	1	MG/KG	07/24/2020	RAL

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	8/6/2020 EV20070106 EV20070106-05
CLIENT CONTACT:	Lynni Bennett	DATE RECEIVED:	07/24/2020
CLIENT PROJECT:	20-0591 Queen MT.	COLLECTION DATE:	7/23/2020 3:30:00 PM
CLIENT SAMPLE ID	Comp-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (III)	Calc-Cr3	**37**	0.50	1	MG/KG	07/24/2020	RAL
Arsenic	EPA-6020	**16**	0.20	1	MG/KG	07/24/2020	RAL
Barium	EPA-6020	**130**	0.10	1	MG/KG	07/24/2020	RAL
Cadmium	EPA-6020	**0.40**	0.10	1	MG/KG	07/24/2020	RAL
Chromium	EPA-6020	**37**	0.10	1	MG/KG	07/24/2020	RAL
Lead	EPA-6020	**27**	0.10	1	MG/KG	07/24/2020	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	07/24/2020	RAL
Silver	EPA-6020	U	0.10	1	MG/KG	07/24/2020	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**66.6**	07/28/2020	KLS
TFT	EPA-8021	**71.6**	07/28/2020	KLS
C25	NWTPH-DX	**108**	07/30/2020	EBS
1,2-Dichloroethane-d4	EPA-8260	**109**	07/30/2020	DLC
Toluene-d8	EPA-8260	**104**	07/30/2020	DLC
4-Bromofluorobenzene	EPA-8260	**122**	07/30/2020	DLC
Terphenyl-d14	EPA-8270 SIM	**92.5**	07/25/2020	JMK
2-Fluorophenol	EPA-8270	**96.4**	08/06/2020	JMK
Phenol-d5	EPA-8270	**86.8**	08/06/2020	JMK
Nitrobenzene-d5	EPA-8270	**68.0**	08/06/2020	JMK
2-Fluorobiphenyl	EPA-8270	**80.0**	08/06/2020	JMK
2,4,6-Tribromophenol	EPA-8270	**90.9**	08/06/2020	JMK
Terphenyl-d14	EPA-8270	**83.2**	08/06/2020	JMK
TCMX	EPA-8082	**78.3**	07/31/2020	JMK
DCB	EPA-8082	**84.6**	07/31/2020	JMK
TCMX	EPA-8081	**65.5**	08/03/2020	JMK
DCB	EPA-8081	**71.4**	08/03/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and lube oil.
Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MBG-072720S - Batch 155826 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	07/27/2020	KLS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-072720S - Batch 155826 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	07/27/2020	KLS
Benzene	EPA-8021	U	MG/KG	0.030	07/27/2020	KLS
Toluene	EPA-8021	U	MG/KG	0.050	07/27/2020	KLS
Ethylbenzene	EPA-8021	U	MG/KG	0.050	07/27/2020	KLS
Xylenes	EPA-8021	U	MG/KG	0.20	07/27/2020	KLS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-072920S2 - Batch 156090 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	07/29/2020	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	07/29/2020	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-072920S - Batch 156075 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Chloromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Vinyl Chloride	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Bromomethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Chloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Carbon Tetrachloride	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Trichlorofluoromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Carbon Disulfide	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Acetone	EPA-8260	U	UG/KG	50	07/29/2020	DLC
1,1-Dichloroethene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Methylene Chloride	EPA-8260	U	UG/KG	20	07/29/2020	DLC
Acrylonitrile	EPA-8260	U	UG/KG	50	07/29/2020	DLC
Methyl T-Butyl Ether	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1-Dichloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MB-072920S - Batch 156075 - Soil by EPA-8260

2-Butanone	EPA-8260	U	UG/KG	50	07/29/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
2,2-Dichloropropane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Bromochloromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Chloroform	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Benzene	EPA-8260	U	UG/KG	5.0	07/29/2020	DLC
Trichloroethene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Dibromomethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Bromodichloromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
4-Methyl-2-Pentanone	EPA-8260	U	UG/KG	50	07/29/2020	DLC
Toluene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
2-Hexanone	EPA-8260	U	UG/KG	50	07/29/2020	DLC
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Tetrachloroethylene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Dibromochloromethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	07/29/2020	DLC
Chlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	07/29/2020	DLC
Styrene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
o-Xylene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Bromoform	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Isopropylbenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Bromobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
N-Propyl Benzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
2-Chlorotoluene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
4-Chlorotoluene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
T-Butyl Benzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
S-Butyl Benzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MB-072920S - Batch 156075 - Soil by EPA-8260

P-Isopropyltoluene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
N-Butylbenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	07/29/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Hexachlorobutadiene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
Naphthalene	EPA-8260	U	UG/KG	10	07/29/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/KG	10	07/29/2020	DLC

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MB-072420S - Batch 155814 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
2-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
1-Methylnaphthalene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Acenaphthylene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Acenaphthene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Fluorene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Phenanthrene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Anthracene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Fluoranthene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Pyrene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Benzo[A]Anthracene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Chrysene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Benzo[A]Pyrene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	UG/KG	20	07/24/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-073020S - Batch 155952 - Soil by EPA-8270

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	UG/KG	200	08/05/2020	JMK
N-Nitrosodimethylamine	EPA-8270	U	UG/KG	100	08/05/2020	JMK

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CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MB-073020S - Batch 155952 - Soil by EPA-8270

Phenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Aniline	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	UG/KG	250	08/05/2020	JMK
2-Chlorophenol	EPA-8270	U	UG/KG	250	08/05/2020	JMK
1,3-Dichlorobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
1,4-Dichlorobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzyl Alcohol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
1,2-Dichlorobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2-Methylphenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	UG/KG	250	08/05/2020	JMK
3&4-Methylphenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	UG/KG	250	08/05/2020	JMK
Hexachloroethane	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Nitrobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Isophorone	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2-Nitrophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2,4-Dimethylphenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzoic Acid	EPA-8270	U	UG/KG	1000	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	UG/KG	250	08/05/2020	JMK
2,4-Dichlorophenol	EPA-8270	U	UG/KG	500	08/05/2020	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Naphthalene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
4-Chloroaniline	EPA-8270	U	UG/KG	1000	08/05/2020	JMK
2,6-Dichlorophenol	EPA-8270	U	UG/KG	250	08/05/2020	JMK
Hexachlorobutadiene	EPA-8270	U	UG/KG	500	08/05/2020	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	UG/KG	500	08/05/2020	JMK
2-Methylnaphthalene	EPA-8270	U	UG/KG	250	08/05/2020	JMK
1-Methylnaphthalene	EPA-8270	U	UG/KG	250	08/05/2020	JMK
Hexachlorocyclopentadiene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2,4,6-Trichlorophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2,4,5-Trichlorophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2-Chloronaphthalene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2-Nitroaniline	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Acenaphthylene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Dimethylphthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2,6-Dinitrotoluene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Acenaphthene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
3-Nitroaniline	EPA-8270	U	UG/KG	1000	08/05/2020	JMK
2,4-Dinitrophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
4-Nitrophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Dibenzofuran	EPA-8270	U	UG/KG	100	08/05/2020	JMK

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		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MB-073020S - Batch 155952 - Soil by EPA-8270

2,4-Dinitrotoluene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Diethylphthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Fluorene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	UG/KG	100	08/05/2020	JMK
4-Nitroaniline	EPA-8270	U	UG/KG	250	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	UG/KG	100	08/05/2020	JMK
N-Nitrosodiphenylamine	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Azobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Hexachlorobenzene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Pentachlorophenol	EPA-8270	U	UG/KG	500	08/05/2020	JMK
Phenanthrene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Anthracene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Carbazole	EPA-8270	U	UG/KG	250	08/05/2020	JMK
Di-N-Butylphthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Fluoranthene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Pyrene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Butylbenzylphthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
3,3-Dichlorobenzidine	EPA-8270	U	UG/KG	250	08/05/2020	JMK
Benzo[A]Anthracene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Chrysene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Di-N-Octylphthalate	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzo[B]Fluoranthene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzo[K]Fluoranthene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzo[A]Pyrene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	UG/KG	100	08/05/2020	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	UG/KG	100	08/05/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-073020S - Batch 155947 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
PCB-1221	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
PCB-1232	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
PCB-1242	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
PCB-1248	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
PCB-1254	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK

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CERTIFICATE OF ANALYSIS

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741 Marine Dr.
Bellingham, WA 98225
CLIENT CONTACT: Lynni Bennett
CLIENT PROJECT: 20-0591 Queen MT.

DATE: 8/6/2020
ALS SDG#: EV20070106
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-073020S - Batch 155947 - Soil by EPA-8082

PCB-1260	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
Chlordane	EPA-8082	U	MG/KG	0.50	07/31/2020	JMK
PCB-1268	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK
Total PCBs	EPA-8082	U	MG/KG	0.10	07/31/2020	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-073020S - Batch 155948 - Soil by EPA-8081

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
A-BHC	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
G-BHC	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
B-BHC	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Heptachlor	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
D-BHC	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Aldrin	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Heptachlor Epoxide	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Chlordane	EPA-8081	U	MG/KG	0.020	08/03/2020	JMK
Endosulfan I	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
4,4'-DDE	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Dieldrin	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Endrin	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
4,4'-DDD	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Endosulfan II	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
4,4'-DDT	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Endrin Aldehyde	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Endosulfan Sulfate	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Methoxychlor	EPA-8081	U	MG/KG	0.010	08/03/2020	JMK
Toxaphene	EPA-8081	U	MG/KG	0.50	08/03/2020	JMK

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MBLK-R366329 - Batch R366329 - Soil by EPA-7196

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	MG/KG	5.0	08/06/2020	JNF

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MBLK-R365711 - Batch R365711 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	07/24/2020	RAL

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		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY BLANK RESULTS

MBLK-R365711 - Batch R365711 - Soil by EPA-7471

U - Analyte analyzed for but not detected at level above reporting limit.

MB-072420S - Batch 155788 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	07/24/2020	RAL
Barium	EPA-6020	U	MG/KG	0.12	07/24/2020	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	07/24/2020	RAL
Chromium	EPA-6020	U	MG/KG	0.10	07/24/2020	RAL
Lead	EPA-6020	U	MG/KG	0.10	07/24/2020	RAL
Selenium	EPA-6020	U	MG/KG	1.0	07/24/2020	RAL
Silver	EPA-6020	U	MG/KG	0.10	07/24/2020	RAL

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		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 155826 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**88.2**			66.5	122.7	07/27/2020	KLS
TPH-Volatile Range - BSD	NWTPH-GX	**91.1**	**3**		66.5	122.7	07/28/2020	KLS

ALS Test Batch ID: 155826 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether - BS	EPA-8021	**99.5**			66	116	07/27/2020	KLS
Methyl T-Butyl Ether - BSD	EPA-8021	**105**	**5**		66	116	07/27/2020	KLS
Benzene - BS	EPA-8021	**96.2**			67.7	124	07/27/2020	KLS
Benzene - BSD	EPA-8021	**103**	**6**		67.7	124	07/27/2020	KLS
Toluene - BS	EPA-8021	**101**			71	123	07/27/2020	KLS
Toluene - BSD	EPA-8021	**107**	**6**		71	123	07/27/2020	KLS
Ethylbenzene - BS	EPA-8021	**106**			69.8	117	07/27/2020	KLS
Ethylbenzene - BSD	EPA-8021	**112**	**6**		69.8	117	07/27/2020	KLS
Xylenes - BS	EPA-8021	**103**			70	119	07/27/2020	KLS
Xylenes - BSD	EPA-8021	**110**	**6**		70	119	07/27/2020	KLS

ALS Test Batch ID: 156090 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**106**			75.5	122.1	07/29/2020	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**105**	**1**		75.5	122.1	07/29/2020	EBS

ALS Test Batch ID: 156075 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**87.0**			50	150	07/29/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**71.0**	**20**		50	150	07/29/2020	DLC
Chloromethane - BS	EPA-8260	**105**			50	150	07/29/2020	DLC
Chloromethane - BSD	EPA-8260	**85.5**	**20**		50	150	07/29/2020	DLC
Vinyl Chloride - BS	EPA-8260	**92.1**			50	150	07/29/2020	DLC
Vinyl Chloride - BSD	EPA-8260	**74.8**	**21**		50	150	07/29/2020	DLC
Bromomethane - BS	EPA-8260	**97.6**			50	150	07/29/2020	DLC
Bromomethane - BSD	EPA-8260	**82.0**	**17**		50	150	07/29/2020	DLC
Chloroethane - BS	EPA-8260	**92.9**			50	150	07/29/2020	DLC
Chloroethane - BSD	EPA-8260	**73.9**	**23**		50	150	07/29/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	**97.7**			50	150	07/29/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	**82.0**	**17**		50	150	07/29/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	**102**			50	150	07/29/2020	DLC

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741 Marine Dr.
Bellingham, WA 98225

CLIENT CONTACT: Lynni Bennett
CLIENT PROJECT: 20-0591 Queen MT.

DATE: 8/6/2020
ALS SDG#: EV20070106
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Trichlorofluoromethane - BSD	EPA-8260	**85.8**	**18**		50	150	07/29/2020	DLC
Carbon Disulfide - BS	EPA-8260	**88.2**			50	150	07/29/2020	DLC
Carbon Disulfide - BSD	EPA-8260	**73.4**	**18**		50	150	07/29/2020	DLC
Acetone - BS	EPA-8260	**80.1**			50	150	07/29/2020	DLC
Acetone - BSD	EPA-8260	**70.5**	**13**		50	150	07/29/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	**88.4**			70	130	07/29/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	**75.3**	**16**		70	130	07/29/2020	DLC
Methylene Chloride - BS	EPA-8260	**98.4**			50	150	07/29/2020	DLC
Methylene Chloride - BSD	EPA-8260	**76.4**	**25**	SR1	50	150	07/29/2020	DLC
Acrylonitrile - BS	EPA-8260	**96.0**			50	150	07/29/2020	DLC
Acrylonitrile - BSD	EPA-8260	**80.4**	**18**		50	150	07/29/2020	DLC
Methyl T-Butyl Ether - BS	EPA-8260	**95.6**			50	150	07/29/2020	DLC
Methyl T-Butyl Ether - BSD	EPA-8260	**82.7**	**14**		50	150	07/29/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**92.8**			50	150	07/29/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**74.7**	**21**		50	150	07/29/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	**99.5**			50	150	07/29/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	**84.6**	**16**		50	150	07/29/2020	DLC
2-Butanone - BS	EPA-8260	**90.6**			50	150	07/29/2020	DLC
2-Butanone - BSD	EPA-8260	**79.4**	**13**		50	150	07/29/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**95.5**			50	150	07/29/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**77.5**	**21**		50	150	07/29/2020	DLC
2,2-Dichloropropane - BS	EPA-8260	**92.0**			50	150	07/29/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	**77.5**	**17**		50	150	07/29/2020	DLC
Bromochloromethane - BS	EPA-8260	**92.8**			50	150	07/29/2020	DLC
Bromochloromethane - BSD	EPA-8260	**79.5**	**15**		50	150	07/29/2020	DLC
Chloroform - BS	EPA-8260	**106**			50	150	07/29/2020	DLC
Chloroform - BSD	EPA-8260	**86.0**	**21**		50	150	07/29/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**89.7**			50	150	07/29/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**75.6**	**17**		50	150	07/29/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	**92.5**			50	150	07/29/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	**78.2**	**17**		50	150	07/29/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	**101**			50	150	07/29/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	**86.3**	**16**		50	150	07/29/2020	DLC
Benzene - BS	EPA-8260	**94.1**			75	138	07/29/2020	DLC
Benzene - BSD	EPA-8260	**79.5**	**17**		75	138	07/29/2020	DLC
Trichloroethene - BS	EPA-8260	**91.6**			75	136	07/29/2020	DLC
Trichloroethene - BSD	EPA-8260	**77.5**	**17**		75	136	07/29/2020	DLC
1,2-Dichloropropane - BS	EPA-8260	**98.0**			50	150	07/29/2020	DLC
1,2-Dichloropropane - BSD	EPA-8260	**82.8**	**17**		50	150	07/29/2020	DLC
Dibromomethane - BS	EPA-8260	**101**			50	150	07/29/2020	DLC

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LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dibromomethane - BSD	EPA-8260	**86.4**	**16**		50	150	07/29/2020	DLC
Bromodichloromethane - BS	EPA-8260	**98.1**			50	150	07/29/2020	DLC
Bromodichloromethane - BSD	EPA-8260	**82.6**	**17**		50	150	07/29/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**106**			50	150	07/29/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**91.1**	**15**		50	150	07/29/2020	DLC
4-Methyl-2-Pentanone - BS	EPA-8260	**104**			50	150	07/29/2020	DLC
4-Methyl-2-Pentanone - BSD	EPA-8260	**95.6**	**8**		50	150	07/29/2020	DLC
Toluene - BS	EPA-8260	**96.3**			71.6	122.1	07/29/2020	DLC
Toluene - BSD	EPA-8260	**80.3**	**18**		71.6	122.1	07/29/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**100**			50	150	07/29/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**86.2**	**15**		50	150	07/29/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**107**			50	150	07/29/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**92.1**	**15**		50	150	07/29/2020	DLC
2-Hexanone - BS	EPA-8260	**103**			50	150	07/29/2020	DLC
2-Hexanone - BSD	EPA-8260	**91.7**	**11**		50	150	07/29/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	**106**			50	150	07/29/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	**94.2**	**12**		50	150	07/29/2020	DLC
Tetrachloroethylene - BS	EPA-8260	**95.3**			50	150	07/29/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	**76.7**	**22**		50	150	07/29/2020	DLC
Dibromochloromethane - BS	EPA-8260	**109**			50	150	07/29/2020	DLC
Dibromochloromethane - BSD	EPA-8260	**95.9**	**13**		50	150	07/29/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	**98.6**			50	150	07/29/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	**84.7**	**15**		50	150	07/29/2020	DLC
Chlorobenzene - BS	EPA-8260	**92.8**			79	128	07/29/2020	DLC
Chlorobenzene - BSD	EPA-8260	**78.2**	**17**	SQ3	79	128	07/29/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**97.4**			50	150	07/29/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**82.0**	**17**		50	150	07/29/2020	DLC
Ethylbenzene - BS	EPA-8260	**90.4**			50	150	07/29/2020	DLC
Ethylbenzene - BSD	EPA-8260	**76.1**	**17**		50	150	07/29/2020	DLC
m,p-Xylene - BS	EPA-8260	**92.4**			50	150	07/29/2020	DLC
m,p-Xylene - BSD	EPA-8260	**76.4**	**19**		50	150	07/29/2020	DLC
Styrene - BS	EPA-8260	**96.4**			50	150	07/29/2020	DLC
Styrene - BSD	EPA-8260	**81.8**	**16**		50	150	07/29/2020	DLC
o-Xylene - BS	EPA-8260	**94.4**			50	150	07/29/2020	DLC
o-Xylene - BSD	EPA-8260	**79.5**	**17**		50	150	07/29/2020	DLC
Bromoform - BS	EPA-8260	**108**			50	150	07/29/2020	DLC
Bromoform - BSD	EPA-8260	**95.5**	**12**		50	150	07/29/2020	DLC
Isopropylbenzene - BS	EPA-8260	**92.4**			50	150	07/29/2020	DLC
Isopropylbenzene - BSD	EPA-8260	**78.1**	**17**		50	150	07/29/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**100**			50	150	07/29/2020	DLC

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WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**87.4**	**14**		50	150	07/29/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**102**			50	150	07/29/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**90.3**	**13**		50	150	07/29/2020	DLC
Bromobenzene - BS	EPA-8260	**90.9**			50	150	07/29/2020	DLC
Bromobenzene - BSD	EPA-8260	**77.5**	**16**		50	150	07/29/2020	DLC
N-Propyl Benzene - BS	EPA-8260	**88.9**			50	150	07/29/2020	DLC
N-Propyl Benzene - BSD	EPA-8260	**73.1**	**20**		50	150	07/29/2020	DLC
2-Chlorotoluene - BS	EPA-8260	**89.7**			50	150	07/29/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	**74.9**	**18**		50	150	07/29/2020	DLC
1,3,5-Trimethylbenzene - BS	EPA-8260	**90.6**			50	150	07/29/2020	DLC
1,3,5-Trimethylbenzene - BSD	EPA-8260	**74.7**	**19**		50	150	07/29/2020	DLC
4-Chlorotoluene - BS	EPA-8260	**90.3**			50	150	07/29/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	**74.7**	**19**		50	150	07/29/2020	DLC
T-Butyl Benzene - BS	EPA-8260	**95.0**			50	150	07/29/2020	DLC
T-Butyl Benzene - BSD	EPA-8260	**78.8**	**19**		50	150	07/29/2020	DLC
1,2,4-Trimethylbenzene - BS	EPA-8260	**89.4**			50	150	07/29/2020	DLC
1,2,4-Trimethylbenzene - BSD	EPA-8260	**74.5**	**18**		50	150	07/29/2020	DLC
S-Butyl Benzene - BS	EPA-8260	**90.0**			50	150	07/29/2020	DLC
S-Butyl Benzene - BSD	EPA-8260	**75.0**	**18**		50	150	07/29/2020	DLC
P-Isopropyltoluene - BS	EPA-8260	**89.9**			50	150	07/29/2020	DLC
P-Isopropyltoluene - BSD	EPA-8260	**73.8**	**20**		50	150	07/29/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**90.6**			50	150	07/29/2020	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**76.7**	**17**		50	150	07/29/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**90.0**			50	150	07/29/2020	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	**76.2**	**17**		50	150	07/29/2020	DLC
N-Butylbenzene - BS	EPA-8260	**89.6**			50	150	07/29/2020	DLC
N-Butylbenzene - BSD	EPA-8260	**74.3**	**19**		50	150	07/29/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**95.2**			50	150	07/29/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**80.8**	**16**		50	150	07/29/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**83.5**			50	150	07/29/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**71.6**	**15**		50	150	07/29/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**93.7**			50	150	07/29/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**78.4**	**18**		50	150	07/29/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	**82.9**			50	150	07/29/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	**69.1**	**18**		50	150	07/29/2020	DLC
Naphthalene - BS	EPA-8260	**95.9**			50	150	07/29/2020	DLC
Naphthalene - BSD	EPA-8260	**85.5**	**11**		50	150	07/29/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**98.6**			50	150	07/29/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**82.5**	**18**		50	150	07/29/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY CONTROL SAMPLE RESULTS

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.
SR1 - RPD outside of control limits.

ALS Test Batch ID: 155814 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	**81.4**			20	150	07/24/2020	JMK
Naphthalene - BSD	EPA-8270 SIM	**90.8**	**11**		20	150	07/24/2020	JMK
2-Methylnaphthalene - BS	EPA-8270 SIM	**85.3**			20	150	07/24/2020	JMK
2-Methylnaphthalene - BSD	EPA-8270 SIM	**96.1**	**12**		20	150	07/24/2020	JMK
1-Methylnaphthalene - BS	EPA-8270 SIM	**86.9**			20	150	07/24/2020	JMK
1-Methylnaphthalene - BSD	EPA-8270 SIM	**95.8**	**10**		20	150	07/24/2020	JMK
Acenaphthylene - BS	EPA-8270 SIM	**86.4**			20	150	07/24/2020	JMK
Acenaphthylene - BSD	EPA-8270 SIM	**97.5**	**12**		20	150	07/24/2020	JMK
Acenaphthene - BS	EPA-8270 SIM	**88.4**			41	107	07/24/2020	JMK
Acenaphthene - BSD	EPA-8270 SIM	**99.0**	**11**		41	107	07/24/2020	JMK
Fluorene - BS	EPA-8270 SIM	**91.6**			20	150	07/24/2020	JMK
Fluorene - BSD	EPA-8270 SIM	**102**	**11**		20	150	07/24/2020	JMK
Phenanthrene - BS	EPA-8270 SIM	**83.5**			20	150	07/24/2020	JMK
Phenanthrene - BSD	EPA-8270 SIM	**93.0**	**11**		20	150	07/24/2020	JMK
Anthracene - BS	EPA-8270 SIM	**79.1**			20	150	07/24/2020	JMK
Anthracene - BSD	EPA-8270 SIM	**91.7**	**15**		20	150	07/24/2020	JMK
Fluoranthene - BS	EPA-8270 SIM	**83.8**			20	150	07/24/2020	JMK
Fluoranthene - BSD	EPA-8270 SIM	**93.4**	**11**		20	150	07/24/2020	JMK
Pyrene - BS	EPA-8270 SIM	**99.5**			18	136	07/24/2020	JMK
Pyrene - BSD	EPA-8270 SIM	**106**	**6**		18	136	07/24/2020	JMK
Benzo[A]Anthracene - BS	EPA-8270 SIM	**78.4**			20	150	07/24/2020	JMK
Benzo[A]Anthracene - BSD	EPA-8270 SIM	**90.6**	**15**		20	150	07/24/2020	JMK
Chrysene - BS	EPA-8270 SIM	**92.6**			20	150	07/24/2020	JMK
Chrysene - BSD	EPA-8270 SIM	**102**	**10**		20	150	07/24/2020	JMK
Benzo[B]Fluoranthene - BS	EPA-8270 SIM	**76.8**			20	150	07/24/2020	JMK
Benzo[B]Fluoranthene - BSD	EPA-8270 SIM	**86.3**	**12**		20	150	07/24/2020	JMK
Benzo[K]Fluoranthene - BS	EPA-8270 SIM	**81.8**			20	150	07/24/2020	JMK
Benzo[K]Fluoranthene - BSD	EPA-8270 SIM	**91.4**	**11**		20	150	07/24/2020	JMK
Benzo[A]Pyrene - BS	EPA-8270 SIM	**60.4**			20	150	07/24/2020	JMK
Benzo[A]Pyrene - BSD	EPA-8270 SIM	**70.9**	**16**		20	150	07/24/2020	JMK
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270 SIM	**71.3**			20	150	07/24/2020	JMK
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270 SIM	**82.0**	**14**		20	150	07/24/2020	JMK
Dibenz[A,H]Anthracene - BS	EPA-8270 SIM	**67.9**			20	150	07/24/2020	JMK
Dibenz[A,H]Anthracene - BSD	EPA-8270 SIM	**80.1**	**16**		20	150	07/24/2020	JMK
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	**76.1**			20	150	07/24/2020	JMK
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	**88.0**	**15**		20	150	07/24/2020	JMK

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CERTIFICATE OF ANALYSIS

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741 Marine Dr.
Bellingham, WA 98225
CLIENT CONTACT: Lynni Bennett
CLIENT PROJECT: 20-0591 Queen MT.

DATE: 8/6/2020
ALS SDG#: EV20070106
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 155952 - Soil by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Pyridine - BS	EPA-8270	**52.0**			20	150	08/05/2020	JMK
Pyridine - BSD	EPA-8270	**70.1**	**30**		20	150	08/05/2020	JMK
N-Nitrosodimethylamine - BS	EPA-8270	**45.3**			20	150	08/05/2020	JMK
N-Nitrosodimethylamine - BSD	EPA-8270	**56.9**	**23**		20	150	08/05/2020	JMK
Phenol - BS	EPA-8270	**77.7**			36.1	131	08/05/2020	JMK
Phenol - BSD	EPA-8270	**81.5**	**5**		36.1	131	08/05/2020	JMK
Aniline - BS	EPA-8270	**52.2**			20	150	08/05/2020	JMK
Aniline - BSD	EPA-8270	**61.4**	**16**		20	150	08/05/2020	JMK
Bis(2-Chloroethyl)Ether - BS	EPA-8270	**63.1**			20	150	08/05/2020	JMK
Bis(2-Chloroethyl)Ether - BSD	EPA-8270	**73.5**	**15**		20	150	08/05/2020	JMK
2-Chlorophenol - BS	EPA-8270	**69.8**			59.9	111	08/05/2020	JMK
2-Chlorophenol - BSD	EPA-8270	**78.6**	**12**	SR1	59.9	111	08/05/2020	JMK
1,3-Dichlorobenzene - BS	EPA-8270	**56.7**			20	150	08/05/2020	JMK
1,3-Dichlorobenzene - BSD	EPA-8270	**71.4**	**23**		20	150	08/05/2020	JMK
1,4-Dichlorobenzene - BS	EPA-8270	**59.2**			44.3	122	08/05/2020	JMK
1,4-Dichlorobenzene - BSD	EPA-8270	**74.2**	**22**	SR1	44.3	122	08/05/2020	JMK
Benzyl Alcohol - BS	EPA-8270	**72.5**			20	150	08/05/2020	JMK
Benzyl Alcohol - BSD	EPA-8270	**79.0**	**9**		20	150	08/05/2020	JMK
1,2-Dichlorobenzene - BS	EPA-8270	**59.2**			20	150	08/05/2020	JMK
1,2-Dichlorobenzene - BSD	EPA-8270	**72.0**	**20**		20	150	08/05/2020	JMK
2-Methylphenol - BS	EPA-8270	**69.7**			20	150	08/05/2020	JMK
2-Methylphenol - BSD	EPA-8270	**75.0**	**7**		20	150	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether - BS	EPA-8270	**38.8**			20	150	08/05/2020	JMK
Bis(2-Chloroisopropyl)Ether - BSD	EPA-8270	**45.3**	**15**		20	150	08/05/2020	JMK
3&4-Methylphenol - BS	EPA-8270	**79.9**			20	150	08/05/2020	JMK
3&4-Methylphenol - BSD	EPA-8270	**84.4**	**6**		20	150	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**53.5**			31.6	134	08/05/2020	JMK
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**59.3**	**10**		31.6	134	08/05/2020	JMK
Hexachloroethane - BS	EPA-8270	**11.4**		SQ3	20	150	08/05/2020	JMK
Hexachloroethane - BSD	EPA-8270	**14.8**	**26**	DUP05	20	150	08/05/2020	JMK
Nitrobenzene - BS	EPA-8270	**61.9**			20	150	08/05/2020	JMK
Nitrobenzene - BSD	EPA-8270	**72.2**	**15**		20	150	08/05/2020	JMK
Isophorone - BS	EPA-8270	**61.6**			20	150	08/05/2020	JMK
Isophorone - BSD	EPA-8270	**68.4**	**10**		20	150	08/05/2020	JMK
2-Nitrophenol - BS	EPA-8270	**59.7**			20	150	08/05/2020	JMK
2-Nitrophenol - BSD	EPA-8270	**69.4**	**15**		20	150	08/05/2020	JMK
2,4-Dimethylphenol - BS	EPA-8270	**75.9**			20	150	08/05/2020	JMK
2,4-Dimethylphenol - BSD	EPA-8270	**81.3**	**7**		20	150	08/05/2020	JMK

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741 Marine Dr.
Bellingham, WA 98225

CLIENT CONTACT: Lynni Bennett
CLIENT PROJECT: 20-0591 Queen MT.

DATE: 8/6/2020
ALS SDG#: EV20070106
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Bis(2-Chloroethoxy)Methane - BS	EPA-8270	**70.5**			20	150	08/05/2020	JMK
Bis(2-Chloroethoxy)Methane - BSD	EPA-8270	**80.4**	**13**		20	150	08/05/2020	JMK
2,4-Dichlorophenol - BS	EPA-8270	**83.7**			20	150	08/05/2020	JMK
2,4-Dichlorophenol - BSD	EPA-8270	**92.3**	**10**		20	150	08/05/2020	JMK
1,2,4-Trichlorobenzene - BS	EPA-8270	**66.6**			44.6	122	08/05/2020	JMK
1,2,4-Trichlorobenzene - BSD	EPA-8270	**78.2**	**16**		44.6	122	08/05/2020	JMK
Naphthalene - BS	EPA-8270	**65.7**			20	150	08/05/2020	JMK
Naphthalene - BSD	EPA-8270	**75.8**	**14**		20	150	08/05/2020	JMK
4-Chloroaniline - BS	EPA-8270	**75.8**			20	150	08/05/2020	JMK
4-Chloroaniline - BSD	EPA-8270	**88.1**	**15**		20	150	08/05/2020	JMK
Hexachlorobutadiene - BS	EPA-8270	**63.3**			20	150	08/05/2020	JMK
Hexachlorobutadiene - BSD	EPA-8270	**75.3**	**17**		20	150	08/05/2020	JMK
4-Chloro-3-Methylphenol - BS	EPA-8270	**78.7**			49.2	135	08/05/2020	JMK
4-Chloro-3-Methylphenol - BSD	EPA-8270	**83.6**	**6**		49.2	135	08/05/2020	JMK
2-Methylnaphthalene - BS	EPA-8270	**71.5**			20	150	08/05/2020	JMK
2-Methylnaphthalene - BSD	EPA-8270	**79.7**	**11**		20	150	08/05/2020	JMK
1-Methylnaphthalene - BS	EPA-8270	**68.2**			20	150	08/05/2020	JMK
1-Methylnaphthalene - BSD	EPA-8270	**76.2**	**11**		20	150	08/05/2020	JMK
Hexachlorocyclopentadiene - BS	EPA-8270	**0**		SQ3	20	150	08/05/2020	JMK
Hexachlorocyclopentadiene - BSD	EPA-8270	**0**	**0**	DUP05	20	150	08/05/2020	JMK
2,4,6-Trichlorophenol - BS	EPA-8270	**75.1**			20	150	08/05/2020	JMK
2,4,6-Trichlorophenol - BSD	EPA-8270	**80.6**	**7**		20	150	08/05/2020	JMK
2,4,5-Trichlorophenol - BS	EPA-8270	**80.8**			20	150	08/05/2020	JMK
2,4,5-Trichlorophenol - BSD	EPA-8270	**85.7**	**6**		20	150	08/05/2020	JMK
2-Chloronaphthalene - BS	EPA-8270	**74.3**			20	150	08/05/2020	JMK
2-Chloronaphthalene - BSD	EPA-8270	**82.0**	**10**		20	150	08/05/2020	JMK
2-Nitroaniline - BS	EPA-8270	**63.8**			20	150	08/05/2020	JMK
2-Nitroaniline - BSD	EPA-8270	**67.3**	**5**		20	150	08/05/2020	JMK
Acenaphthylene - BS	EPA-8270	**74.8**			20	150	08/05/2020	JMK
Acenaphthylene - BSD	EPA-8270	**79.7**	**6**		20	150	08/05/2020	JMK
Dimethylphthalate - BS	EPA-8270	**74.8**			20	150	08/05/2020	JMK
Dimethylphthalate - BSD	EPA-8270	**81.0**	**8**		20	150	08/05/2020	JMK
2,6-Dinitrotoluene - BS	EPA-8270	**69.6**			20	150	08/05/2020	JMK
2,6-Dinitrotoluene - BSD	EPA-8270	**73.9**	**6**		20	150	08/05/2020	JMK
Acenaphthene - BS	EPA-8270	**71.4**			49.3	117	08/05/2020	JMK
Acenaphthene - BSD	EPA-8270	**77.0**	**8**		49.3	117	08/05/2020	JMK
3-Nitroaniline - BS	EPA-8270	**168**		SQ1	20	150	08/05/2020	JMK
3-Nitroaniline - BSD	EPA-8270	**177**	**5**	DUP05	20	150	08/05/2020	JMK
2,4-Dinitrophenol - BS	EPA-8270	**52.4**			20	150	08/05/2020	JMK
2,4-Dinitrophenol - BSD	EPA-8270	**52.1**	**1**		20	150	08/05/2020	JMK

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CLIENT PROJECT: 20-0591 Queen MT.

DATE: 8/6/2020
ALS SDG#: EV20070106
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
4-Nitrophenol - BS	EPA-8270	**107**			29.8	137	08/05/2020	JMK
4-Nitrophenol - BSD	EPA-8270	**109**	**2**		29.8	137	08/05/2020	JMK
Dibenzofuran - BS	EPA-8270	**77.8**			20	150	08/05/2020	JMK
Dibenzofuran - BSD	EPA-8270	**82.8**	**6**		20	150	08/05/2020	JMK
2,4-Dinitrotoluene - BS	EPA-8270	**69.8**			55.3	130	08/05/2020	JMK
2,4-Dinitrotoluene - BSD	EPA-8270	**75.6**	**8**		55.3	130	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol - BS	EPA-8270	**78.0**			20	150	08/05/2020	JMK
2,3,4,6-Tetrachlorophenol - BSD	EPA-8270	**84.0**	**7**		20	150	08/05/2020	JMK
Diethylphthalate - BS	EPA-8270	**73.3**			20	150	08/05/2020	JMK
Diethylphthalate - BSD	EPA-8270	**78.6**	**7**		20	150	08/05/2020	JMK
Fluorene - BS	EPA-8270	**79.0**			20	150	08/05/2020	JMK
Fluorene - BSD	EPA-8270	**83.9**	**6**		20	150	08/05/2020	JMK
4-Chlorophenyl-Phenylether - BS	EPA-8270	**79.5**			20	150	08/05/2020	JMK
4-Chlorophenyl-Phenylether - BSD	EPA-8270	**85.7**	**8**		20	150	08/05/2020	JMK
4-Nitroaniline - BS	EPA-8270	**255**		SQ1	20	150	08/05/2020	JMK
4-Nitroaniline - BSD	EPA-8270	**262**	**3**	DUP05	20	150	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol - BS	EPA-8270	**32.8**			20	150	08/05/2020	JMK
4,6-Dinitro-2-Methylphenol - BSD	EPA-8270	**35.9**	**9**		20	150	08/05/2020	JMK
Azobenzene - BS	EPA-8270	**60.7**			20	150	08/05/2020	JMK
Azobenzene - BSD	EPA-8270	**66.1**	**9**		20	150	08/05/2020	JMK
4-Bromophenyl-Phenylether - BS	EPA-8270	**82.8**			20	150	08/05/2020	JMK
4-Bromophenyl-Phenylether - BSD	EPA-8270	**89.1**	**7**		20	150	08/05/2020	JMK
Hexachlorobenzene - BS	EPA-8270	**78.0**			20	150	08/05/2020	JMK
Hexachlorobenzene - BSD	EPA-8270	**84.1**	**8**		20	150	08/05/2020	JMK
Pentachlorophenol - BS	EPA-8270	**73.4**			41.3	113	08/05/2020	JMK
Pentachlorophenol - BSD	EPA-8270	**82.2**	**11**		41.3	113	08/05/2020	JMK
Phenanthrene - BS	EPA-8270	**72.6**			20	150	08/05/2020	JMK
Phenanthrene - BSD	EPA-8270	**78.5**	**8**		20	150	08/05/2020	JMK
Anthracene - BS	EPA-8270	**75.9**			20	150	08/05/2020	JMK
Anthracene - BSD	EPA-8270	**82.4**	**8**		20	150	08/05/2020	JMK
Carbazole - BS	EPA-8270	**98.6**			20	150	08/05/2020	JMK
Carbazole - BSD	EPA-8270	**106**	**7**		20	150	08/05/2020	JMK
Di-N-Butylphthalate - BS	EPA-8270	**64.7**			20	150	08/05/2020	JMK
Di-N-Butylphthalate - BSD	EPA-8270	**69.7**	**7**		20	150	08/05/2020	JMK
Fluoranthene - BS	EPA-8270	**76.6**			20	150	08/05/2020	JMK
Fluoranthene - BSD	EPA-8270	**82.7**	**8**		20	150	08/05/2020	JMK
Pyrene - BS	EPA-8270	**62.8**			57.4	145	08/05/2020	JMK
Pyrene - BSD	EPA-8270	**68.7**	**9**		57.4	145	08/05/2020	JMK
Butylbenzylphthalate - BS	EPA-8270	**66.0**			20	150	08/05/2020	JMK
Butylbenzylphthalate - BSD	EPA-8270	**71.6**	**8**		20	150	08/05/2020	JMK

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Benzo[A]Anthracene - BS	EPA-8270	**71.4**			20	150	08/05/2020	JMK
Benzo[A]Anthracene - BSD	EPA-8270	**75.9**	**6**		20	150	08/05/2020	JMK
Chrysene - BS	EPA-8270	**68.0**			20	150	08/05/2020	JMK
Chrysene - BSD	EPA-8270	**72.8**	**7**		20	150	08/05/2020	JMK
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	**65.3**			20	150	08/05/2020	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	**70.6**	**8**		20	150	08/05/2020	JMK
Di-N-Octylphthalate - BS	EPA-8270	**67.7**			20	150	08/05/2020	JMK
Di-N-Octylphthalate - BSD	EPA-8270	**72.3**	**7**		20	150	08/05/2020	JMK
Benzo[B]Fluoranthene - BS	EPA-8270	**82.7**			20	150	08/05/2020	JMK
Benzo[B]Fluoranthene - BSD	EPA-8270	**87.3**	**5**		20	150	08/05/2020	JMK
Benzo[K]Fluoranthene - BS	EPA-8270	**75.6**			20	150	08/05/2020	JMK
Benzo[K]Fluoranthene - BSD	EPA-8270	**83.6**	**10**		20	150	08/05/2020	JMK
Benzo[A]Pyrene - BS	EPA-8270	**67.6**			20	150	08/05/2020	JMK
Benzo[A]Pyrene - BSD	EPA-8270	**72.8**	**7**		20	150	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270	**64.1**			20	150	08/05/2020	JMK
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270	**66.6**	**4**		20	150	08/05/2020	JMK
Dibenz[A,H]Anthracene - BS	EPA-8270	**68.5**			20	150	08/05/2020	JMK
Dibenz[A,H]Anthracene - BSD	EPA-8270	**71.0**	**4**		20	150	08/05/2020	JMK
Benzo[G,H,I]Perylene - BS	EPA-8270	**61.0**			20	150	08/05/2020	JMK
Benzo[G,H,I]Perylene - BSD	EPA-8270	**63.9**	**5**		20	150	08/05/2020	JMK

DUP05 - LCS/LCSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.
SQ3 - Spike outside of control limit

ALS Test Batch ID: 155947 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	**69.5**			50	150	07/31/2020	JMK
PCB-1016 - BSD	EPA-8082	**72.9**	**5**		50	150	07/31/2020	JMK
PCB-1260 - BS	EPA-8082	**81.6**			50	150	07/31/2020	JMK
PCB-1260 - BSD	EPA-8082	**84.8**	**4**		50	150	07/31/2020	JMK

ALS Test Batch ID: 155948 - Soil by EPA-8081

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
A-BHC - BS	EPA-8081	**80.5**			50	150	08/03/2020	JMK
A-BHC - BSD	EPA-8081	**85.1**	**6**		50	150	08/03/2020	JMK
G-BHC - BS	EPA-8081	**87.8**			33	155	08/03/2020	JMK
G-BHC - BSD	EPA-8081	**87.8**	**0**		33	155	08/03/2020	JMK
B-BHC - BS	EPA-8081	**82.7**			50	150	08/03/2020	JMK

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CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
B-BHC - BSD	EPA-8081	**89.8**	**8**		50	150	08/03/2020	JMK
Heptachlor - BS	EPA-8081	**93.3**			49	142	08/03/2020	JMK
Heptachlor - BSD	EPA-8081	**101**	**8**		49	142	08/03/2020	JMK
D-BHC - BS	EPA-8081	**88.0**			50	150	08/03/2020	JMK
D-BHC - BSD	EPA-8081	**88.8**	**1**		50	150	08/03/2020	JMK
Aldrin - BS	EPA-8081	**90.3**			37	149	08/03/2020	JMK
Aldrin - BSD	EPA-8081	**94.9**	**5**		37	149	08/03/2020	JMK
Heptachlor Epoxide - BS	EPA-8081	**90.4**			50	150	08/03/2020	JMK
Heptachlor Epoxide - BSD	EPA-8081	**94.5**	**4**		50	150	08/03/2020	JMK
Endosulfan I - BS	EPA-8081	**92.4**			50	150	08/03/2020	JMK
Endosulfan I - BSD	EPA-8081	**96.2**	**4**		50	150	08/03/2020	JMK
4,4'-DDE - BS	EPA-8081	**91.8**			50	150	08/03/2020	JMK
4,4'-DDE - BSD	EPA-8081	**94.9**	**3**		50	150	08/03/2020	JMK
Dieldrin - BS	EPA-8081	**93.7**			65	137	08/03/2020	JMK
Dieldrin - BSD	EPA-8081	**96.9**	**3**		65	137	08/03/2020	JMK
Endrin - BS	EPA-8081	**102**			65	149	08/03/2020	JMK
Endrin - BSD	EPA-8081	**105**	**3**		65	149	08/03/2020	JMK
4,4'-DDD - BS	EPA-8081	**103**			50	150	08/03/2020	JMK
4,4'-DDD - BSD	EPA-8081	**105**	**2**		50	150	08/03/2020	JMK
Endosulfan II - BS	EPA-8081	**95.7**			50	150	08/03/2020	JMK
Endosulfan II - BSD	EPA-8081	**100**	**4**		50	150	08/03/2020	JMK
4,4'-DDT - BS	EPA-8081	**98.9**			60	152	08/03/2020	JMK
4,4'-DDT - BSD	EPA-8081	**102**	**3**		60	152	08/03/2020	JMK
Endrin Aldehyde - BS	EPA-8081	**98.5**			50	150	08/03/2020	JMK
Endrin Aldehyde - BSD	EPA-8081	**99.6**	**1**		50	150	08/03/2020	JMK
Endosulfan Sulfate - BS	EPA-8081	**99.7**			50	150	08/03/2020	JMK
Endosulfan Sulfate - BSD	EPA-8081	**102**	**2**		50	150	08/03/2020	JMK
Methoxychlor - BS	EPA-8081	**103**			50	150	08/03/2020	JMK
Methoxychlor - BSD	EPA-8081	**106**	**3**		50	150	08/03/2020	JMK

ALS Test Batch ID: R366329 - Soil by EPA-7196

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Chromium (VI) - BS	EPA-7196	**100**			91	114	08/06/2020	JNF
Chromium (VI) - BSD	EPA-7196	**101**	**1**		91	114	08/06/2020	JNF

ALS Test Batch ID: R365711 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**105**			81.8	117	07/24/2020	RAL

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CERTIFICATE OF ANALYSIS

CLIENT:	Geotest Services, Inc. 741 Marine Dr. Bellingham, WA 98225	DATE:	8/6/2020
		ALS SDG#:	EV20070106
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lynni Bennett		
CLIENT PROJECT:	20-0591 Queen MT.		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Mercury - BSD	EPA-7471	**104**	**1**		81.8	117	07/24/2020	RAL

ALS Test Batch ID: 155788 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**97.2**			80	120	07/24/2020	RAL
Arsenic - BSD	EPA-6020	**96.1**	**1**		80	120	07/24/2020	RAL
Barium - BS	EPA-6020	**95.5**			80	120	07/24/2020	RAL
Barium - BSD	EPA-6020	**96.3**	**1**		80	120	07/24/2020	RAL
Cadmium - BS	EPA-6020	**102**			80	120	07/24/2020	RAL
Cadmium - BSD	EPA-6020	**102**	**0**		80	120	07/24/2020	RAL
Chromium - BS	EPA-6020	**97.0**			80	120	07/24/2020	RAL
Chromium - BSD	EPA-6020	**96.2**	**1**		80	120	07/24/2020	RAL
Lead - BS	EPA-6020	**94.4**			80	120	07/24/2020	RAL
Lead - BSD	EPA-6020	**93.8**	**1**		80	120	07/24/2020	RAL
Selenium - BS	EPA-6020	**98.4**			80	120	07/24/2020	RAL
Selenium - BSD	EPA-6020	**97.7**	**1**		80	120	07/24/2020	RAL
Silver - BS	EPA-6020	**90.4**			80	120	07/24/2020	RAL
Silver - BSD	EPA-6020	**87.1**	**4**		80	120	07/24/2020	RAL

APPROVED BY

Laboratory Director

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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV20070106

Date 7/23/20 Page 1 Of 1

PROJECT ID: 20-0591 Queen MT.
REPORT TO COMPANY: GEOTEST
PROJECT MANAGER: Lynn Bennett
ADDRESS: 741 Marine DR.
Bellingham, WA 98225
PHONE: 3604100885 P.O. #: 20-0591
E-MAIL: Lynn@geotest-inc.com
INVOICE TO COMPANY: Same
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐	BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐	MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐	Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐	RCRA-8 ☐	Pri Pol ☐	TAL ☐	Metals Other (Specify)	TCLP-Metals ☐	VOA ☐	Semi-Vol ☐	Pest ☐	Herbs ☐
1. Comp-1	7/23	1330	S	1		X	X	X		X		X	X			X	X	X		X				Hex Chrome					
2. Comp-2		1400		2																X									
3. Comp-3		1430		3																X									
4. Comp-4		1500		4																X									
5. Comp-5		1530		5																X									
6.																													
7.																													
8.																													
9.																													
10.																													

OTHER (Specify): Chrome III

NUMBER OF CONTAINERS: 5

RECEIVED IN GOOD CONDITION?

SPECIAL INSTRUCTIONS: Please report level II QA/QC

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] GT 7/24/20 12:20 pm
   Received By: Shawn Robinson ALS 7/24/20 12:20 pm
2. Relinquished By: -
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10 Standard] 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: [5 Standard] 3 1 SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

Table 12.1 Guidelines for Reuse of Petroleum-Contaminated Soil

Parameter	Analytical Method	Soil Category (8)(9)(10)			
		1 No detectable Petroleum Components (mg/kg)	2 Commercial Fill Above Water Table (mg/kg)	3 Paving Base Material & Road Construction (mg/kg)	4 Landfill Daily Cover or Asphalt Manufacturing (mg/kg)
Total Petroleum Hydrocarbons (1)(2) See Table 7.1 for petroleum products that fall within these categories.					
Gasoline Range Organics	NWTPH-Gx	<5	5 - 30	>30 - 100	>100
Diesel Range Organics	NWTPH-Dx	<25	25 - 200	>200 - 500	>500
Heavy Fuels and Oils*	NWTPH-Dx	<100	100 - 200	>200 – 500	>500
Mineral Oil	NWTPH-Dx	<100	100 - 200	>200 – 500	>500
Volatile Petroleum Components					
Benzene	SW8260B	<0.005	0.005 - 0.03	0.03 or less	See Table 12.2
Ethyl benzene	SW8260B	<0.005	0.005 - 6	6 or less	>6
Toluene	SW8260B	<0.005	0.005 - 7	7 or less	>7
Xylenes (3)	SW8260B	<0.015	0.015 - 9	9 or less	>9
Fuel Additives & Blending Components					
(MTBE) Methyl Tert-Butyl Ether	SW8260B	<0.005	0.005 - 0.1	0.1 or less	>0.1
Lead	SW6010A	<17	17 - 50	>50 - 220	See Table 12.2
Other Petroleum Components					
Polychlorinated (4) Biphenyls (PCBs)	SW8082	<0.04	<0.04	<0.04	See Table 12.2
Naphthalenes (5)	SW8260B	<0.05	0.05 - 5	5 or less	>5
cPAHs (6)	SW8270C	<0.05	0.05 - 0.1	>0.1 - 2	>2
Other Petroleum Characteristics (Applies to soils contaminated with any petroleum product.)					
Odors	Smell	No detectable odor			
Staining	Visual	No unusual color or staining			
Sheen Test	See Footnote # 7	No visible sheen			

IMPORTANT: See Table 12.2 and the footnotes to this Table on the following pages!

Test soil for the parameters specified in Table 7.2.

****Does NOT include waste oil contaminated soils, which should be disposed of in a landfill.***

"<" means less than; ">" means greater than

Table 12.2 Description and Recommended Best Management Practices for Soil Categories in Table 12.1 (continues on next page)		
Category	**Acceptable Uses**	**Limitations**
Category 1 Soils: Soils with no detectable/ quantifiable levels of petroleum hydrocarbons or constituents using the analytical methods listed in Table 7.3 and are not suspected of being contaminated with any other hazardous substances.	• Can be used anywhere the use is allowed under other regulations. • Any use allowed for Category 2, 3 & 4 soils.	• These soils may have a slight petroleum odor, depending on the sensitivity of individuals, and this should be considered when reusing these soils.
Category 2 Soils: Soils with residual levels of petroleum hydrocarbons that could have adverse impacts on the environment in some circumstances.	• Any use allowed for Category 3 & 4 soils. • Backfill at cleanup sites above the water table. • Fill in commercial or industrial areas above the water table. • Road and bridge embankment construction in areas above the water table.	• Should be placed above the highest anticipated high water table. If seasonal groundwater elevation information is not available, place at least 10 feet above the current water table. • Should not be placed within 100 feet of any private drinking water well or within the 10 year wellhead protection area of a public water supply well. • Should not be placed in or directly adjacent to wetlands or surface water where contact with water is possible. • Should not be placed under a surface water infiltration facility or septic drain field. • Any other limitations in state or local regulations.
Category 3 Soils: Soils with moderate levels of residual petroleum contamination that could have adverse impacts on the environment unless re-used in carefully controlled situations.	• Any use allowed for Category 4 soils. • Use as pavement base material under public and private paved streets and roads. • Use as pavement base material under commercial and industrial parking lots.	• Should be placed above the highest anticipated high water table. If seasonal ground water elevation information is not available, place at least 10 feet above the water table. • Should be a maximum of 2 feet thick to minimize potential for leaching or vapor impacts. • Should not be placed within 100 feet of any private drinking water well or within the 10 year wellhead protection area of a public water supply well. • Should not be placed in or directly adjacent to wetlands or surface water. • Should not be placed under a surface water infiltration facility or septic drain field. • When exposed, runoff from area in use should be contained or treated to prevent entrance to storm drains, surface water or wetlands. • Any other limitations in state or local regulations.

Table 12.2 Description and Recommended Best Management Practices for Soil Categories in Table 12.1 (continued)		
Category	**Acceptable Uses**	**Limitations**
Category 4 Soils: Soils with high levels of petroleum contamination that should not be re-used except in very limited circumstances.	• Use in the manufacture of asphalt. • Use as daily cover in a lined municipal solid waste or limited purpose landfill provided this is allowed under the landfill operating permit.	**Landfill Limitations:** The soil should be tested for and pass the following tests: ➢ Free liquids test. Soils that contain free liquids cannot be landfilled without treatment. ➢ TCLP for lead and benzene. Unless exempt under WAC 173-303-071(3)(t), soils that fail a TCLP for lead or benzene must be disposed of as hazardous waste. ➢ Flammability test. Soils that fail this test must be disposed of as hazardous waste. ➢ Bioassay test under WAC 173-303-100(5). Soils that fail this test must be disposed of as hazardous waste. ➢ PCBs. Soils with a total PCB content of 2 ppm or more must be disposed of as hazardous waste. Soil used for daily cover should be stockpiled within the landfill lined fill area. Soil containing more than 10,000 mg/kg TPH should be buried immediately with other wastes or daily covered to limit potential worker exposure. Any additional limitations specified in the landfill permit or in other state or local regulations. **Asphalt Manufacturing Limitations:** Soil storage areas should be contained in a bermed area to minimize contact with surface water runoff from adjacent areas. Runoff from storage areas should be considered contaminated until tested to prove otherwise. Soil storage areas should also be lined and covered with a roof or secured tarp to minimize contact with precipitation and potential groundwater contamination. Leachate from storage areas should be considered contaminated until tested to prove otherwise. The soil should be tested for and pass the following tests: ➢ TCLP for lead and benzene. Unless exempt under WAC 173-303-071(3)(t), soils that fail a TCLP for lead or benzene must be disposed of as hazardous waste. ➢ Flammability test. Soils that fail this test must be disposed of as hazardous waste. ➢ Bioassay test under WAC 173-303-100(5). Soils that fail this test must be disposed of as hazardous waste. ➢ No detectable levels of PCBs in soil (<0.04 mg/kg). Precautions should be taken to minimize worker exposure to soil storage piles and any dust or vapors from these piles prior to feeding into the asphalt batch plant.
IMPORTANT: See the following page for additional information!		

Notes to Table 12.1:

Contaminated soils can be treated to achieve these concentrations but dilution with clean soil to achieve these concentrations is a violation of Washington State solid and hazardous waste laws.

(1) See Table 7.1 for a description of what products fall within these general categories. If the product released is unknown, use the limitations for gasoline range organics. If the soil is contaminated from releases from more than one product, use the limitations for both products. For example, if the release is a mixture of gasoline and diesel, the soil should be tested for components of both gas and diesel and the limitations for both fuels and their components used.

(2) The concentrations for diesel, heavy oil and mineral oil are not additive. Use the TPH product category most closely representing the TPH mixture and apply the limitations for that product to the mixture. ***The reuse of waste oil contaminated soil is not allowed due to the wide variety of contaminants likely to be present.***

(3) Value is total of m, o, & p xylenes.

(4) Value is the total of all PCBs. Only heavy oil and mineral oil contaminated soils need to be tested for PCBs. Soil contaminated with a spill from a regulated PCB containing device must be disposed of in a TSCA permitted landfill, regardless of the PCB concentration. Other PCB contaminated soils may be disposed of in a municipal solid waste landfill permitted to receive such materials, provided the concentration does not exceed 2 ppm PCBs (WAC 173-303-9904).

(5) Value is total of naphthalene, 1-methyl naphthalene and 2-methyl naphthalene. Only diesel and heavy oil contaminated soils need to be tested for naphthalenes.

(6) The value is the benzo(a)pyrene equivalent concentration of the following seven cPAHs, using the procedures in WAC 173-340-708(8). The seven cPAHs are as follows: benz(a)anthracene; benzo(b)fluoranthene; benzo(k)fluoranthene; benzo(a)pyrene; chrysene; dibenz(a,h)anthracene; and, indeno(1,2,3-cd)pyrene. Only diesel and heavy oil contaminated soils need to be tested for cPAHs. Soils contaminated with more than 1% polycyclic aromatic hydrocarbons, as that term is defined in WAC 173-303-040 (which is more expansive than the above list), must be disposed of as hazardous waste.

(7) No visible sheen observed on water when approximately one tablespoon of soil placed in approximately ½ liter of water held in a shallow pan (like a gold pan or similar container).

(8) A soil in a lower category can be used for uses specified in any higher category. This means that:

- A category 1 soil can be used for any use specified in categories 1, 2, 3 and 4.
- A category 2 soil can be used for any use specified in categories 2, 3 and 4.
- A categories 3 soil can be used for any use specified in categories 3 and 4.

(9) ***If an environmental site assessment or soil or groundwater analyses indicate contaminants other than common petroleum constituents and naturally occurring levels of metals are likely to be present in the soil of interest at the site (for example, solvents or pesticides), do not reuse the soil.*** The soil should instead be treated using appropriate technology to address all contaminants or landfilled at a solid waste or hazardous waste facility permitted to receive these materials.

(10) Soils in categories 2, 3 and 4 should be stockpiled consistent with the soil storage recommendations in Section 11.3 of this guidance.