Remedial Action Summary Report

Site Name: **Glenn's Diesel**

Site Address: **14885 State Route 9**
Mount Vernon, Washington 98274

Ecology Facility Site ID No.: **26541964**

Voluntary Cleanup Program Project No.:

Prepared By:

Kim Ninnemann
Stratum Group
PO Box 2546
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Prepared For:

Tim Woodmansee
BYK Construction
133 West State Street
Sedro Woolley, WA 98284

Signature: Kim Ninnemann

Date: April 8, 2019

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Stratum Group

PO Box 2546, Bellingham, WA 98227
Phone: (360) 714-9409

April 8, 2019

Tim Woodmansee
BYK Construction
133 West State Street
Sedro Woolley, WA 98284

Re: Remedial Action Summary Report
Glenn's Diesel
14885 State Route 9
Skagit County Parcel P24750
Mount Vernon, Washington 98274
FS ID: 26541964

Dear Mr. Woodmansee:

This report compiles details regarding all environmental sampling work that has been completed on the Glenn's Diesel site in Mount Vernon, Washington. Previous environmental work has included multiple soil sampling events with soil excavation and removal in 2014 and 2018. The purpose of this report is to synthesize the numerous environmental reports and data for the site into one document to provide a baseline of site knowledge.

The Glenn's Diesel site is currently listed as a contaminated site with Washington State Department of Ecology with confirmed petroleum and metal contaminated soil.

Our review of cleanup documents and confirmation sampling indicates that the residual site soils meet cleanup standards that are protective of human health, environment and wildlife and therefore should be considered for a "no further action" determination through Ecology's Voluntary Cleanup Program.

Should you have any questions concerning this report, please do not hesitate to contact us at (360) 714-9409.

Sincerely,
Stratum Group

Kim Ninnemann

Kim Ninnemann, B.S., L.G.
Licensed Geologist

KIM N NINNEMANN

1.0 EXECUTIVE SUMMARY

The purpose of this report is to synthesize all of the previous environmental investigations and cleanups for the Glenn's Diesel site in Mount Vernon, Washington This report will be used as part of a submittal to Ecology's Voluntary Cleanup Program.

The Glenn's Diesel site is currently occupied by a shop building, an asphalt and gravel parking area, dirt and vegetation covered land, and forest. BYK Construction has utilized the site as a construction yard since late 2018. Historically, an auto repair facility operated on the western portion of the site from approximately 1977 through the late 2000s. The site became listed as a contaminated site with the Washington State Department of Ecology (Ecology) in 1998 due to complaints of junk materials stored on the site's surface and potential surface contamination.

A summary of environmental actions on the site include:

- 1998 – Listing of site as contaminated, based upon site inspections by Ecology personnel
- 2002 – Site Hazard Assessment
- 2008 – Investigation into gasoline spill from neighboring property
- 2014 – Soil sampling investigation and removal of petroleum contaminated soil
- 2018 – Removal of metal impacted soil

A total of 3 tons of petroleum-contaminated soil was removed in 2014 and 288 tons of metal contaminated soils were removed in 2018 from the upper three feet of the site. No groundwater was encountered.

Based upon our review of previous sampling efforts and oversight of cleanup actions in 2014 and 2018 including confirmation soil sampling, it is our opinion that the residual soil on the site meets the Model Toxic Control Act (MTCA) cleanup standards for protection of human health and the environment. We recommend that the site be considered for a "no further action" determination.

2.0 SITE DESCRIPTION

The site is named Glenn's Diesel within the Ecology databases.

2.1 Site Name and Identification

Glenn's Diesel
14885 State Route 9
Skagit County Parcel P24750
Mount Vernon, Washington 98274
FS ID: 26541964

2.2 Site Owner & Facility Operator

PLLT Investments LLC and
JKW Investments LLC
133 West State Street
Sedro Woolley, Washington 98284

Contact: Tim Woodmansee
tim@bykconstruction.com
360-755-3101

2.3 Project Consultant

Stratum Group
PO Box 2546
Bellingham, WA 98227

Contact: Kim Ninnemann
360-714-9409
kim@stratumgroup.net

2.4 Site Occupant

The western portion of the property is utilized as a construction storage yard for BYK Construction. Forest covers the central and eastern portions of the site.

2.5 Site Location

The Glenn's Diesel site is located along the north side of State Route 9, just east of the roundabout intersection of State Route 538 (College Way) and State Route 9 within unincorporated Mount Vernon, Washington. The Skagit County Assessor office indicates that the property utilizes the addresses of 14885 and 14823 State Route 9 (formerly 1539 and 1487 Highway 9).
The parcel is located within the southeast quarter of the southwest quarter of Section 14, Township 34 North, Range 4 East of the Willamette Meridian.

The location of the site is indicated in Figure 1.

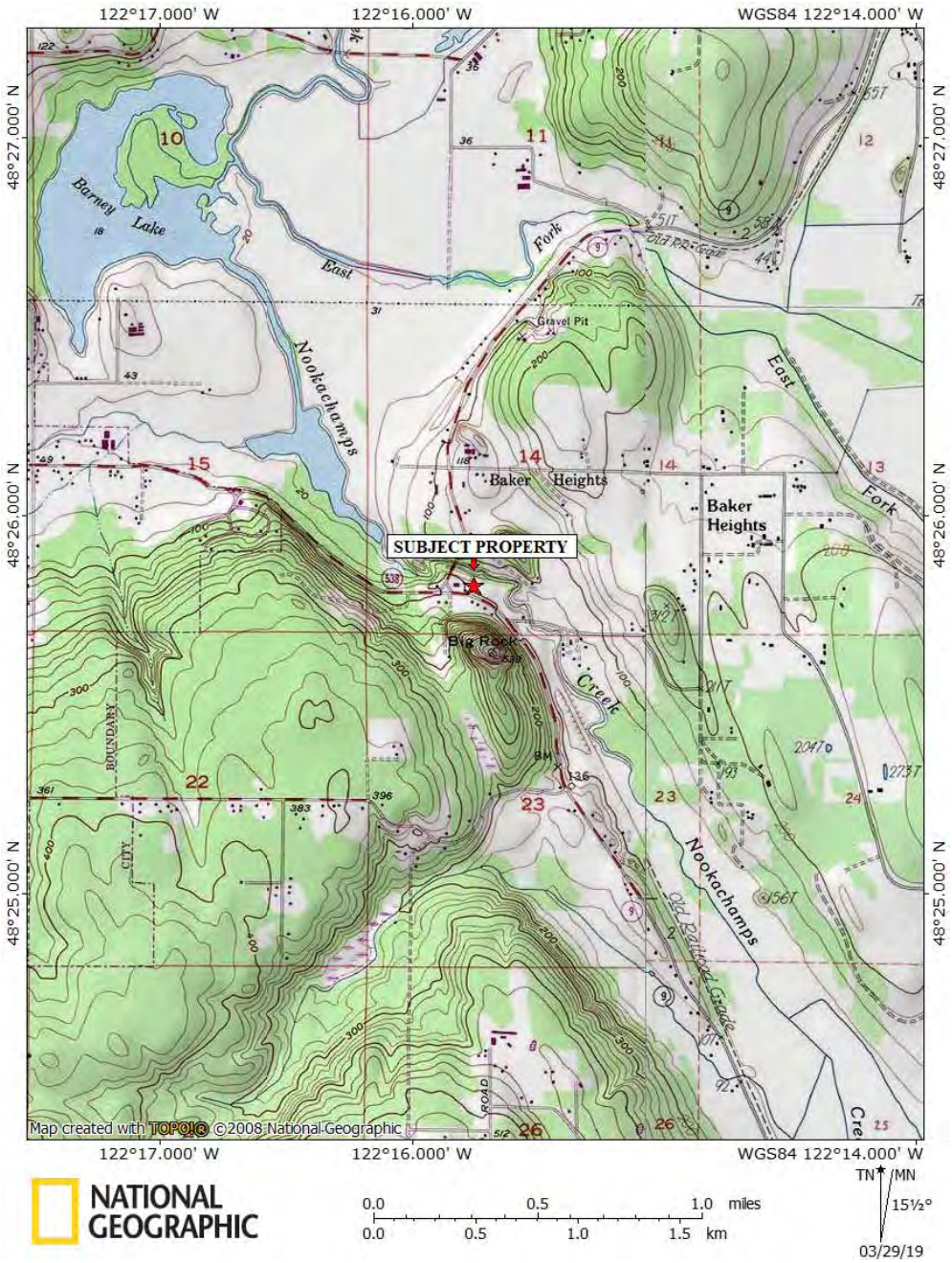


Figure 1. Site Vicinity Map

2.6 General Characteristics of Site and Vicinity

The site is located on one parcel (P24750) that occupies 3.46 acres. The shape of the property is irregular, as it is located on the upland above a forested ravine of the Nookachamps River and State Route 9, which curves to the southeast. The focus of this environmental study took place in the

western end of the parcel, where the shop building and former automotive repair and storage activities took place.

The Glenn's Diesel site is located within a mixed-use area of rural residential properties, commercial properties and forest.

The Glenn's Diesel site is developed with one shop building that occupies 4,000 square feet (80' long by 50' wide) in the northwest corner of the property. The building has five overhead bay doors along its southern wall and is constructed on a concrete foundation with sheet metal siding. No indications of underground hoists or underground storage tanks are visible within or around the building.

An asphalt apron extends along the south side of the shop building. A gravel parking area extends from the edge of the asphalt apron to State Route 9. A dirt and grass covered field extends east of the building.

The remainder of the site is covered by forest.

The site has fairly level topography at approximately 110 feet above mean sea level. The site is located within the Nookachamps River watershed. A forested ravine, in which the Nookachamps River flows, bounds the site to the north. No indications of dumping or debris were observed on the ravine slope between the subject property and the river.

Adjacent Properties

The Nookachamps River and forested ravine bound the site to the north and northeast. State Route 9 bounds the site to the south. A rural residential property and forested property are located across State Route 9 to the south. Big Rock Café and Associated Petroleum Products gasoline station bound the site to the west. The Big Rock Café site is a former gasoline station, listed with Ecology as Big Rock Grocery at 14779 State Route 9.

An aerial photograph of the site and vicinity is provided in Figure 2, below.

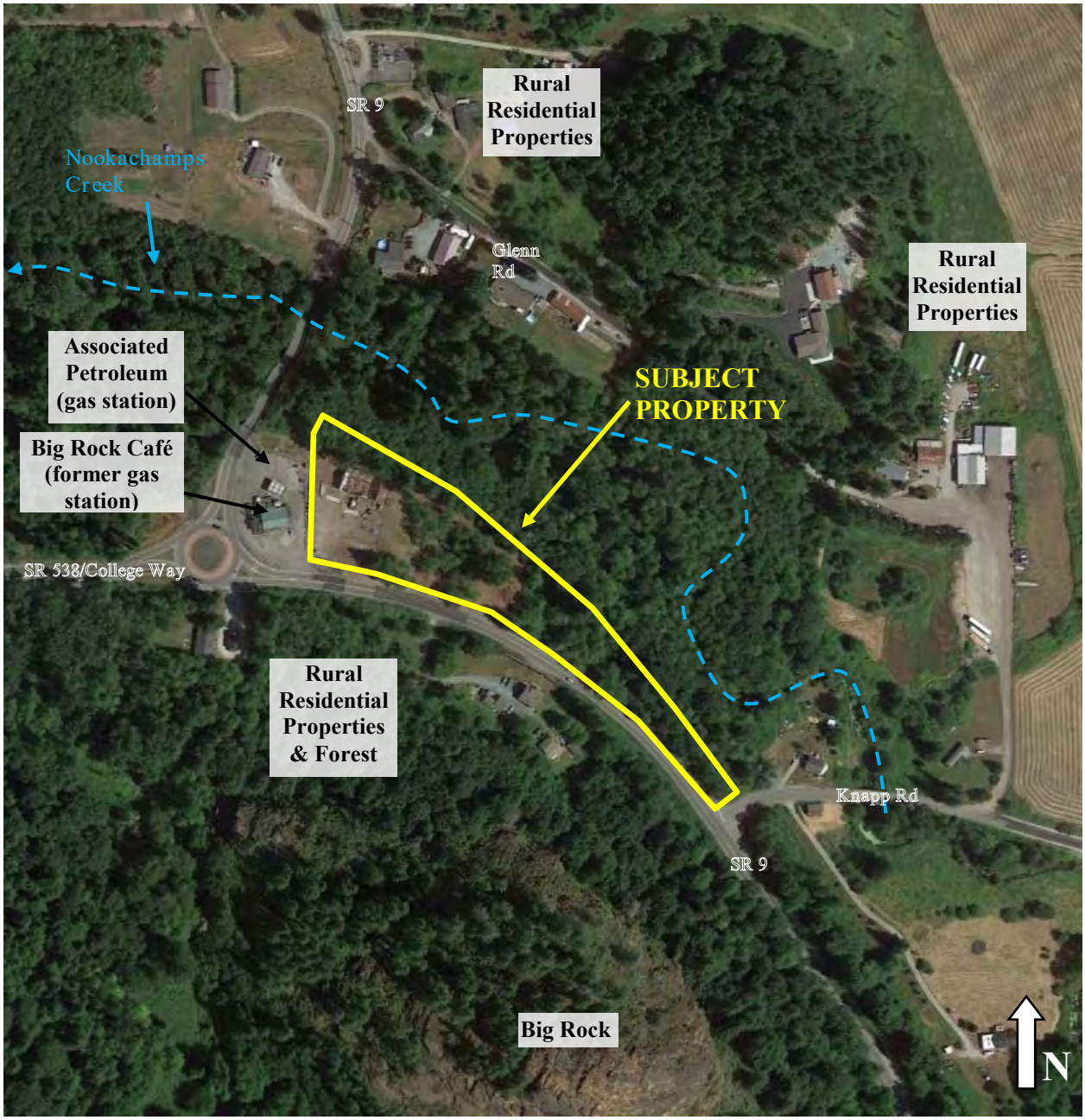


Figure 2. Aerial Photograph of Site and Vicinity (GoogleEarth, 2018)

2.7 Future Site Use

The site is zoned Urban-Reserve Commercial-Industrial (URC-1). The site is currently for sale and removal of the site from the contaminated site database would be part of the sale agreement.

3.0 SITE HISTORY

Historic aerial photographs, historic assessor records, and interviews were used for gathering information regarding the past use of the subject property. Aerial photographs dating back to 1936 are provided in Appendix II.

The site was developed with a single-family residence by 1930. The residence was constructed in the central portion of the property. The remainder of the site was covered by low vegetation in 1937. The site became more forested by 1968, particularly in the southeastern end of the property, except for a clearing in the southwestern portion of the property for use as a gravel parking area. The gravel parking area was utilized for customers of the adjacent store and gasoline station to the west. A 4,000 square foot shop building was constructed on the northwest corner of the property in 1977. The building was utilized for truck and engine repair from 1977 through the late 2000s. The aerial photographs show significant storage of equipment, trucks, etc to the east and south of the shop building in the photos after the shop building was constructed. Much of the equipment had been removed by the early 2010s. The residential home was demolished in approximately 2006. The gravel parking area near the shop building was expanded in 2018.

The auto repair shop was operated by the property owner, Mr. Lloyd Schopf, for less than 10 years and then the site was rented to Mr. Glenn McGoff, who operated Glenn's Diesel from the early to mid 1980s through the late 2000s.

Mr. Glenn McGoff was interviewed by Kim Ninnemann via telephone on October 27, 2014. Mr. McGoff confirmed that he ran the shop for many years. He stated that he primarily worked on logging trucks. He stated that they did some engine work, but primarily did repair work such as welding and fabrication. Mr. McGoff stated that the shop was heated by a propane infrared heater. He stated that no underground hoists or underground tanks were located at the property. He stated that waste oil was stored in 55-gallon drums within the shop. The waste oil was picked up by locals for use in waste oil burners and periodically by a third party waste oil collection company. He stated that the east side of the building was primarily used for storage of steel, logging trailers and other equipment, but that no repair work took place in the grassy area. He remembers a gas spill from the old gasoline station that flowed onto the Glenn's Diesel site, but stated that the old gasoline tanks were pulled out. Mr. McGoff did not know of any contamination problems. Mr. McGoff stated that he had not conducted any sampling or cleanup activities on the site.

Our site review indicates that Floyd Schopf owned the property by 1978. Mr. Schopf originally owned and operated the shop on the subject property and the adjacent gasoline station property. The subject property was later inherited by Georgia Schopf, wife of Floyd Schopf. Ms. Schopf sold the subject property to her son, Greg Johnston and wife Kathy Johnston in 2003. The Johnston's sold the property to the current owners in June 2018.

4.0 ENVIRONMENTAL SETTING

4.1 Site Geology and Soils

The following descriptions of the surficial deposits on the subject property and in the vicinity of the subject property were interpreted from the *Surficial Geologic Map of the Port Townsend 30-by 60-Minute Quadrangle, Puget Sound Region, Washington* (Pessl, Dethier, Booth, Minard, 1989). According to the map, the subject property is underlain by recessional marine deposits of the Fraser glaciation dated approximately 13,000 years ago. The recessional marine deposits include massive to laminated sand, silt, and clay. The deposit can include fossils and lenses, pods, and layers of mixed sand, silt, clay, and gravel.

Our observations of the upper four feet of soil indicate that the site is generally underlain by fill material, largely compact sandy gravel, in the upper 0.5 to 1 foot near the shop building. Fill around the shop included some metal car pieces and debris to depths up to 3.5 feet. Natural conditions included approximately 1.5 to 2 feet of brown organic rich silt underlain by dense tan to grey clay.

One well was drilled on the site in July 1993 to a depth of 400 feet by Dahlman Pump and Well Drill. The well log indicates that no water was found during drilling. The well log indicates that crushed rock was present in the top foot of drilling, which was underlain by brown or blue clay with some gravel to depths of 85 feet. Black shale was identified between 85 and 120 feet depth. Green soap stone was identified between 120 and 135 feet, which was underlain by black shale from 135 to 220 feet depth. Grey soap stone was present between 220 and 400 feet depth. The well log indicates that a 6" casing was installed from 0 to 100 feet depth with a surface seal to a depth of 18 feet. The exact location of this domestic well is unknown. A copy of the well log is provided in Appendix I.

Numerous resource monitoring wells and geotechnical/environmental borings have been completed on the adjacent property to the west, 14779 State Route 9. Well logs for 10 borings and 3 monitoring wells in 2012 indicate the adjacent property is underlain by grey clay with small gravels from the surface to 12 feet deep, which is underlain by glacial hard pan from 12 to 16 feet depth. Two borings completed on the adjacent site in 2004 indicated that the site was underlain by sandy cobbles with gravel to depths up to 18 feet.

Our observations of site soil was limited to the upper four feet; however, a conceptual cross-section of the site's geology, based upon the information available in the adjacent environmental borings logs is provided in Figure 3.

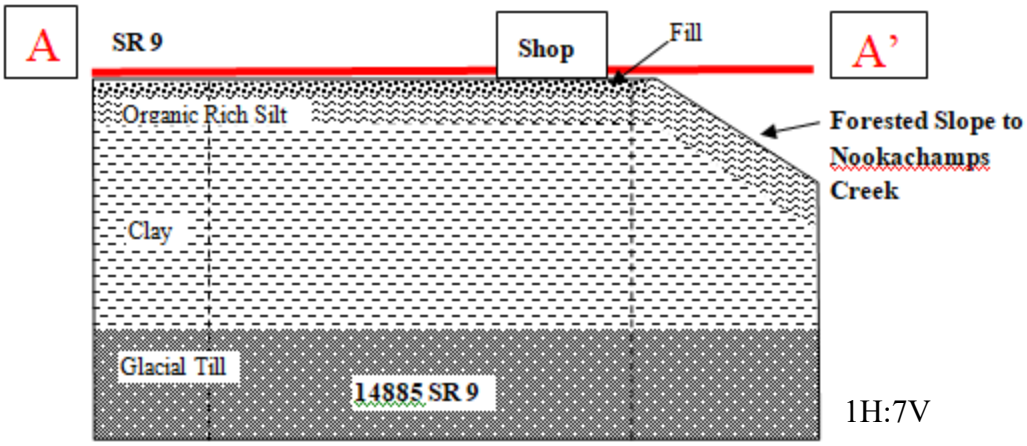


Figure 3. Conceptual cross section of site subsurface

4.2 Site Hydrology

No streams or surface water drainages are located on the subject property.

The site is located adjacent to the south of the Nookachamps River. The subject property is located along the top edge of the left bank of the ravine in which the river flows. The elevation of the river is approximately 40 feet below the surface the subject property.

Precipitation that lands on the impervious, western portion of the parcel generally flows in a north-northeasterly direction via sheetflow. Precipitation onto the remainder of the site is infiltrated into the ground surface. Based upon the presence of a clay layer within the upper 3 feet of soil, the clay likely forms a seasonal perched groundwater layer. Well logs for the adjacent property to the west identified shallow groundwater at 7-8 feet depth in February 2004 and 5 feet depth during well installation in May 2012. No reports of groundwater flow from the adjacent wells were identified during our site research. Based upon surficial topography and underlying soils, shallow groundwater flows in a northerly direction toward the Nookachamps River. No water was encountered during the drilling of a 400-foot depth well on the site.

The depth to regional groundwater is not known, but is likely approximately 40 feet and in hydrologic connectivity with the Nookachamps River.

4.3 Drinking Water

The site is currently connected the Skagit County PUD for drinking water.

Three drinking water wells were identified within ½ mile of the subject property, based on research through the Department of Ecology's Well Log website. In addition, a drinking water well was identified on the subject property. Details regarding the drinking water wells are provided in Table 1, below.

Table 1. Drinking Water Wells w/in ½ Mile of Glenn's Diesel

Well Tag ID	Well Log ID	Well Location	Depth of Well (feet)	Depth of Static Water (feet)	Distance of Site from Glenn's Diesel*
--	78423	1539 State Route 9	100	None during drilling, screened from 18-100 feet	Subject Property
AGH041	315199	14583 State Route 9	59	0.5	776 feet, N
--	81258	2046 Knapp Road	70	--	965 feet, SE
APF212	644588	22340 Gunderson Rd	97	0	1138, N

*minimum distance measured from former auto repair area of Glenn's Diesel site to property boundary of parcel that contains drinking water well

The drinking water well drilled on the subject property is located approximately 160 feet southeast of the shop building and approximately 75 feet north of State Route 9. The well is not currently in use.

Based upon our mapping, the offsite drinking water wells located at 14583 State Route 9 and 22340 Gunderson Road are located across the Nookachamps Creek and are therefore hydrologically separated and are not located down gradient of the subject property. The drinking water well at 2046 Knapp Road is located up gradient of the subject property. None of the wells is suspected to be down gradient of the subject property.

4.4 Sensitive Environments

Nookachamps Creek is located on the adjacent parcel to the north. The creek is located approximately 150 feet north of the site's shop building. The creek is located within a forested ravine with the elevation of the creek approximately 40 feet below the elevation of the subject property. Nookachamps Creek flows in a westerly direction in the vicinity of the subject property, but generally flows in a northwesterly direction into the Skagit River approximately 3 miles to the northwest. The Nookachamps Creek is a sensitive area due to its use as a fish-bearing stream and the forested habitat around the stream.

5.0 Environmental Sampling Events

Numerous sampling and cleanup actions have taken place on the site since 1998. A description of each of the following environmental events at the site is provided below:

- 1998 – Inspection and contaminated sites listing, Ecology
- 2002 – Site Hazard Assessment, Skagit Health Department
- 2008 – Spill response sampling, Skagit Health Department
- 2008 – Notice of violations, Skagit Health Department
- 2014 – Interview with property owner, Stratum Group
- 2014 – Test Pit Investigation, Stratum Group

Copies of the referenced environmental reports or environmental data associated with the events are provided in Appendix III. Figures and tables with all the soil sampling data collected for the site and all the groundwater sampling data collected for the site are provided after the report summaries. All of the sampling data collected through 2014 utilized the Model Toxic Control Act Method A cleanup standards as a screening tool.

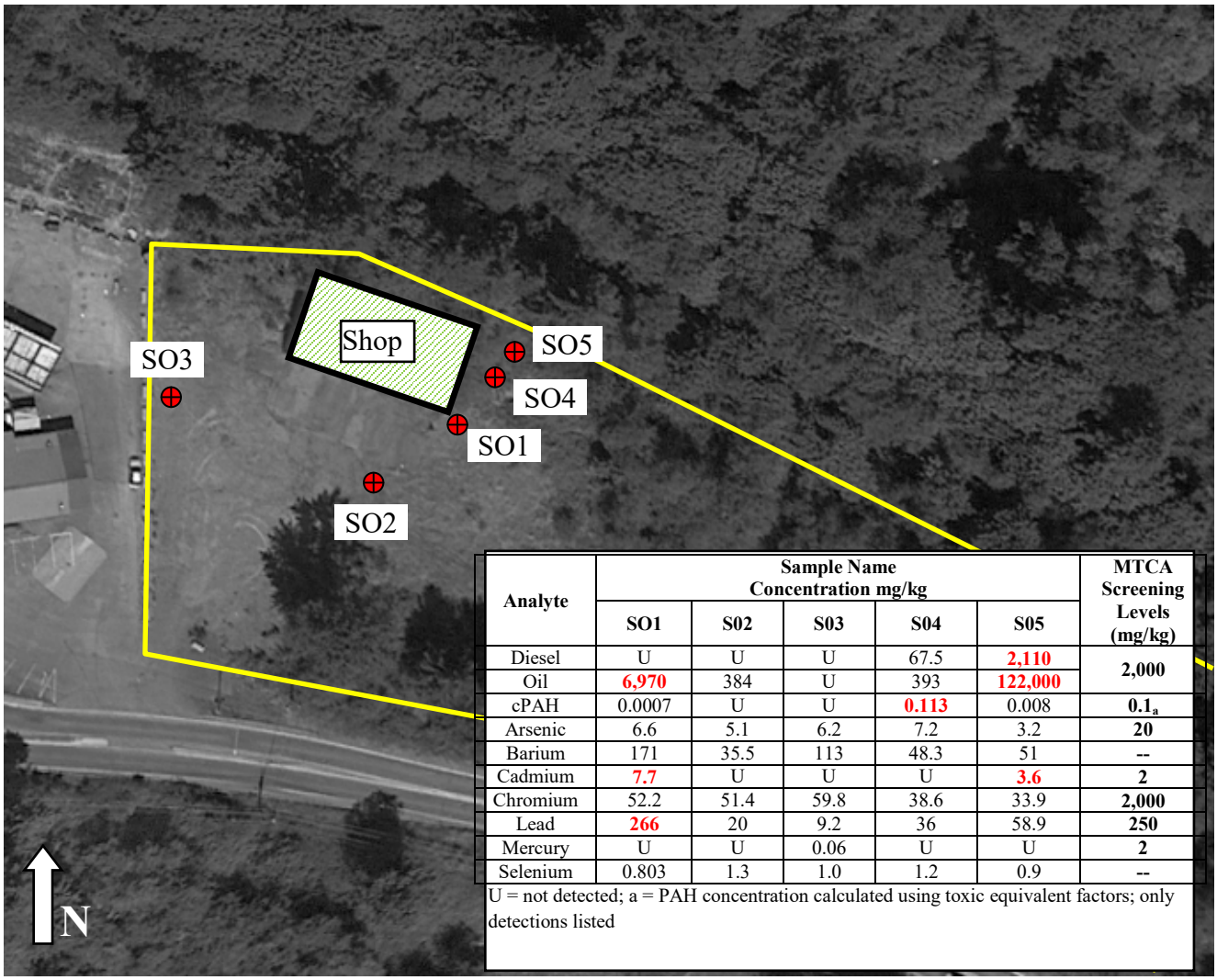
Contaminated Site Listing **(Department of Ecology, 1998)**

The Department of Ecology received a complaint on March 19, 1998 regarding potential contamination associated with degreasing engines. A caller indicated that runoff water flows to the east part of the property into the grass and dirt, where it is stained black. In addition, the complaint indicates that unemptied diesel tanks and parts are scattered throughout the yard. Ecology conducted initial investigations of the site in 1998. Sketches of the property during the visits indicate the storage of full drums of diesel and antifreeze stored south and east of the shop building, exterior storage of batteries, piles of tires, and an above ground waste oil tank near the northeast corner of the shop in the bushes. A follow up visit was completed in January 1999. The Ecology inspector comments indicate that not much cleanup had been completed. The inspector noted that the waste oil AST area looked better and fewer batteries and drums were stored around the exterior; however, oil stained soils were still noted around the yard. Notes indicate that the site had been operated as Glenn's Diesel for approximately 15 years. Based upon Ecology's visits, the site became a listed contaminated site. Copies of Ecology's notes and sketches from the visits are provided in Appendix III.

Site Hazard Assessment **(Skagit County Health Dept, 2002)**

The Skagit County Health Department was contracted by Ecology to evaluate the risk posed by the Glenn's Diesel site in December 2001. Five soil samples were collected from around the exterior of the shop building between two and 12 inches depth. The samples were analyzed for PAHs, metals, diesel, and oil. The sampling event identified contamination in the shallow soils to the southeast and northeast of the shop building. Levels of carcinogenic PAHs, cadmium, lead,

oil and/or diesel exceeded the state cleanup standards for unrestricted land use in the shallow soils. Based upon the sampling and risk assessment worksheet calculations, the site was rated as a risk of 3 to human health and the environment, where 1 is the highest assessed risk and 5 is the lowest assessed risk. Copies of the notes, sketches and laboratory data from the sampling event are provided in Appendix III. The sample locations and results are provided in Figure 4, below.



Analyte	Sample Name Concentration mg/kg					MTCA Screening Levels (mg/kg)
	SO1	S02	S03	S04	S05	
Diesel	U	U	U	67.5	**2,110**	**2,000**
Oil	**6,970**	384	U	393	**122,000**	
cPAH	0.0007	U	U	**0.113**	0.008	**0.1**$_a$
Arsenic	6.6	5.1	6.2	7.2	3.2	**20**
Barium	171	35.5	113	48.3	51	--
Cadmium	**7.7**	U	U	U	**3.6**	**2**
Chromium	52.2	51.4	59.8	38.6	33.9	**2,000**
Lead	**266**	20	9.2	36	58.9	**250**
Mercury	U	U	0.06	U	U	**2**
Selenium	0.803	1.3	1.0	1.2	0.9	--

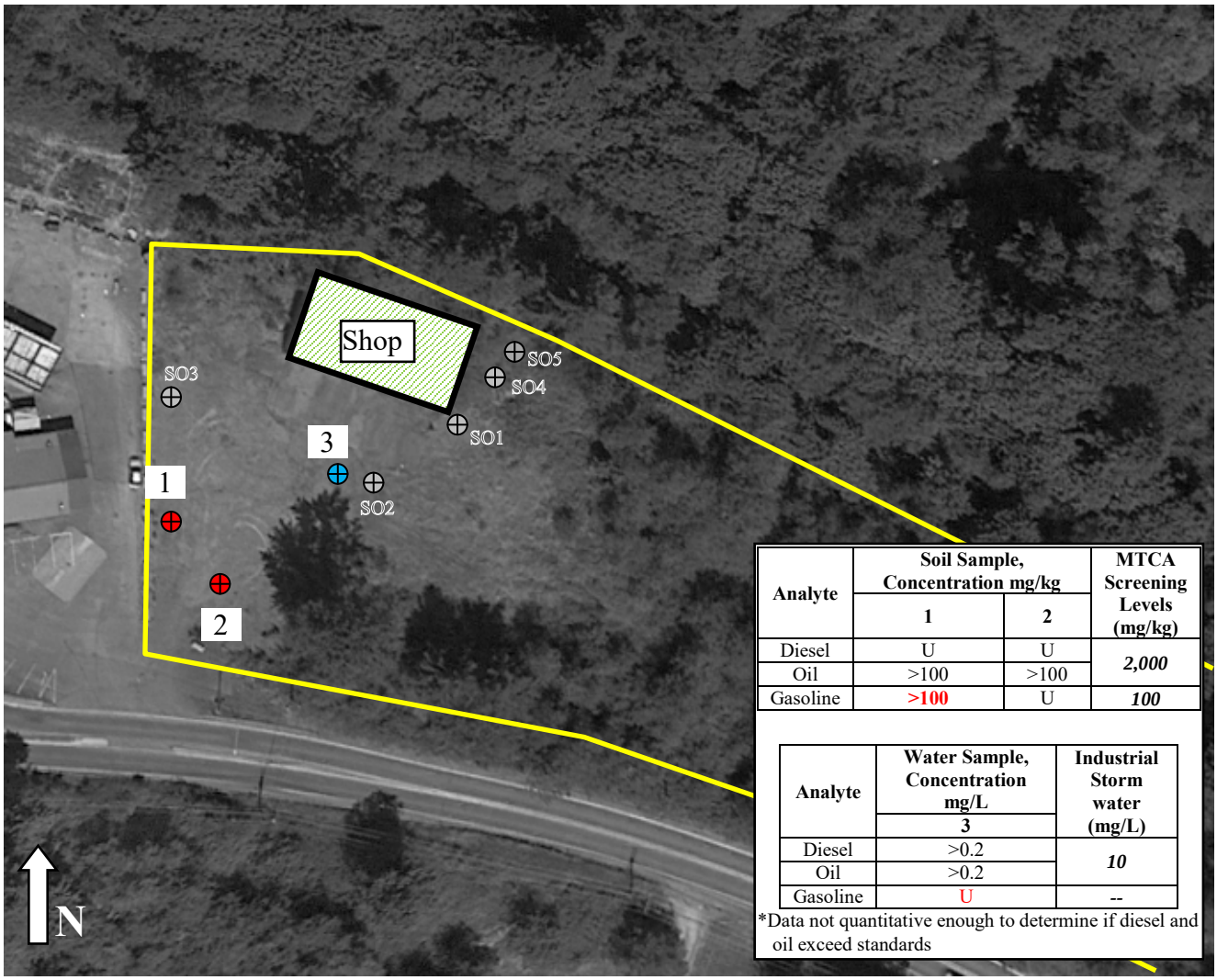
U = not detected; a = PAH concentration calculated using toxic equivalent factors; only detections listed

Figure 4. Sample Results from Site Hazard Assessment Sampling in December 2001

The 2002 sampling event confirmed the presence of oil, diesel, cadmium, lead and cPAH in shallow soils around the shop building in three of the five samples collected, located east of the shop building. The samples collected west and south of the building (sample SO3 and SO2) did not exceed cleanup standards.

Fuel Spill Response Sampling (Skagit County Health Department, 2008)

Skagit County Environmental Health Department responded to complaint of a fuel spill at the adjacent Big Rock Grocery (gas station) in November 2008. The spill reportedly left the [former] pumps along the south side of the building and drained onto the soil of the Glenn's Diesel site. Two soil samples were collected from the Glenn's Diesel site to evaluate if the spill impacted the soil. Due to visible oil sheens on a puddle in the Glenn's Diesel yard, a water sample was collected from the puddle, south of the shop (sample 3). The water sample from the puddle had no detection of gasoline, but had detections of diesel and heavy hydrocarbons. The locations of the samples and the results are presented in Figure 5.



Analyte	Soil Sample, Concentration mg/kg		MTCA Screening Levels (mg/kg)
	1	2	
Diesel	U	U	*2,000*
Oil	>100	>100	
Gasoline	**>100**	U	*100*

Analyte	Water Sample, Concentration mg/L	Industrial Storm water (mg/L)
	3	
Diesel	>0.2	*10*
Oil	>0.2	
Gasoline	U	--

*Data not quantitative enough to determine if diesel and oil exceed standards

Figure 5. Sample results from spill response sampling in 2008

Gasoline, oil and/or diesel were detected in all of the samples. The reporting limit of gasoline for

the hydrocarbon identification testing completed indicates that gasoline in the sample location 1 exceeds MTCA Method A standards. The samples where diesel and oil were detected indicate their presence, but the sample results were only quantitative and could not be directly compared to cleanup standards. Additional sampling would have been required to determine if the concentrations exceeded cleanup standards. A copy of the site sketch and lab data are provided in Appendix III.

Notice of Violation (Skagit County Health Department, 2008)

The Skagit County's observations and sampling on the Glenn's Diesel site triggered a "Notice to Correct Violations" letter to the property owners in March 31, 2008. The inspection identified numerous housekeeping issues on the site and provided dates by which actions needed to be taken. Issues included:

- Have all fluids and batteries stored indoors within leak proof containers
- Remove all solid waste that had been pushed over the bank toward Nookachamps Creek
- Provide a plan for cleaning up the contaminated soil on the site
- Removal of all scattered solid waste materials
- Removal of in-operable vehicles in order to correct violations associated with the county's solid waste code.

No follow up information is available to determine if these requirements were met. Copies of the notice of violation with site photographs is provided in Appendix III.

Interview with Property Owner (Stratum Group, 2014)

Mr. Greg Johnston stated in an interview during the sampling event on July 18, 2014 that he had previously completed a significant amount of work in order to remove junk vehicles, debris, an above ground waste oil tank, etc. from the surface of the site. Mr. Johnston stated that he is in the process of finding a recycler or disposal facility for the approximately 100-150 tires that remain on the site. Mr. Johnston was onsite during the sampling event and identified the locations where drums and above ground tanks had been removed. He stated that no soil cleanup actions had taken place on the site by the former owner or during the debris removal, to the best of his knowledge. Following the cleanup activity, Mr. Johnston stated that he had Ecology blocks and piles of gravel placed on the western boundary of the site in order to eliminate the site as a parking area for the adjacent restaurant and to reduce storm water runoff from the adjacent site onto his property.

Test Pit Investigation (Stratum Group, 2014)

A total of seven test pits were excavated around the shop building and western end of the property to evaluate the soil conditions and determine areas where further sampling and/or cleanup was needed on July 18, 2014. Test pits were generally located where previous sampling

indicated that contamination was present or where contamination was deemed likely. The test pits located east of the shop building were excavated 2-4 feet deep. Most soil samples were collected between the surface to 6 inches depth, except for multiple sample depths adjacent to the southeast corner of the building in TP5, where surface contamination was visible. All samples were analyzed for diesel, oil, gasoline, BTEX, cadmium, chromium, and lead, and a few samples were analyzed for volatile organic compounds, arsenic and/or mercury.

No report was completed that summarizes the sampling event; however, the sample locations are presented in Figure 6, the results are provided in Table 2. Site photographs and the laboratory report are provided in Appendix III.

Figure 6. Sample results from test pit investigation, July 2008

Table 2. Soil sample results from test pit investigation, July 2014

Analyte	Soil Sample Name Concentration (mg/kg)									*MTCA A Screening Levels (mg/kg)*
	TP1	**TP2**	**TP3-.5**	**TP4**	**TP5-surface**	**TP5-2**	**TP5-3.5**	**TP6**	**TP7**	
Diesel	U	U	U	U	U	U	U	U	U	**2,000**
Oil	U	620	580	490	**24,000**	U	U	1,800	**2,800**	
Gasoline	U	U	U	U	8.6	U	U	U	U	**100**
Benzene	U	U	U	U	U	U	U	U	U	**0.03**
Toluene	U	U	U	U	0.51	U	U	U	U	**7**
Ethylbenzene	U	U	U	U	U	U	U	U	U	**6**
Xylenes	U	U	U	U	U	U	U	U	U	**9**
MTBE	U	U	U	U	U	U	U	U	U	**0.1**
Arsenic	--	--	--	--	7.4	--	--	--	--	**20**
Cadmium	U	0.5	0.67	U	**6.8**	U	U	**5.8**	U	**2**
Chromium	53	52	62	67	41	43	68	65	43	**--**
Lead	11	85	67	63	130	4.8	11	120	26	**250**
Mercury	--	--	--	--	0.026	--	--	--	--	**2**
VOCs	--	--	--	--	--	--	U	--	--	**varies**

U = analyte not detected; -- = analyte not sampled

The test pit investigation identified oil and cadmium contamination in the surface soils adjacent to the southeast corner of the shop building (TP5); however, samples collected from the same test pit at 2 and 3.5 foot depths were non-detect for oil, other petroleum products and VOCs. Oil contamination was also identified along the western property boundary (TP7), where previous sampling (2008) had identified gasoline-range petroleum. No gasoline was detected in the 2014 sample, which indicates that perhaps the 2008 spill to the site surface had been naturally attenuated. Sample TP2 was completed in the area where very high oil concentrations, diesel, cadmium, and cPAHs were detected during the 2001 SHA sampling event. The sample results from TP2 found only minor oil was detected in the sample, with no obvious signs of petroleum contamination or debris to a depth of 2.5 feet in TP2. Additionally, no diesel-range petroleum was found in the sample and the cadmium concentration was well below the screening levels. The above ground oil tank or drum suspected to be the source of the 2001 exceedence was no longer present and no indications of this former contaminated zone was identified. Cadmium impacted soil was identified southeast of the building within an unvegetated gravel area (TP6).

6.0 DEVELOPMENT OF CLEANUP STANDARDS

In order to meet the intent of the Model Toxic Control Act cleanup regulations, cleanup standards must be set to be protective of human health and the environment, including ecological health.

6.1 Cleanup Standard Options

Department of Ecology offers three options for cleanup standards: Method A, Method B, and Method C.

Method A is used on sites where the cleanup action is limited and common contaminants are present. Method A utilizes a common list of approximately 20 chemicals that have standardized cleanup levels and must take into account cleanup levels that are protective of ecological health. When the standards are met, the site can be used with unrestricted land use.

Method B cleanup standards can be used at any site. The cleanup standards are developed using standard default assumptions in risk equations; however, the default assumptions can be modified, if appropriate. Cleanup levels for Method B are set at a risk level where risk does not exceed 1 in 100,000. Cleanup levels must also be protective of terrestrial and aquatic ecological environments. Most sites that meet Method B cleanup standards can be used with unrestricted land use.

Method C cleanup standards are utilized on industrial sites and typically require an institutional control to maintain protection for human and ecological health.

To evaluate for ecological health, a terrestrial ecological evaluation must be completed to determine if cleanup standards need to specifically address risks to soil biota, plants, and/or wildlife. The most restrictive cleanup standard applicable for the contaminants of concern will be used as cleanup standards.

6.2 Terrestrial Ecological Evaluation

A Terrestrial Ecological Evaluation (TEE) is required if hazardous substances are released to the soil at a site. The TEE is conducted to determine if cleanup standards for the site are required to be protective of soil biota, plants and/or wildlife.

Due to the close proximity of wild space associated with the Nookachamps River and riparian areas, the site does not qualify for an exclusion from the TEE process or a simplified evaluation and therefore the site requires a site-specific evaluation.

The site-specific TEE procedures require 1) problem formulation; 2) selection of an appropriate evaluation method; and 3) establishment of ecologically protective soil concentrations. An uncertainty analysis can be completed, if needed.

The TEE Evaluation Form that documents the TEE evaluation is provided in Appendix II.

6.2.1 Problem Formulation

The contaminants of ecological concern included oil-range petroleum, cadmium and lead, which were the drivers for the site cleanup action.

Wildlife at the Glenn's Diesel site has two potential exposure pathways: direct contact and ingestion. The primary exposure pathway for metals and/or oil-range petroleum at the site is via direct contact. The secondary exposure pathway is through ingestion of vegetation, soil and/or soil biota from the site.
The Potential receptors at the site include ground feeding birds and small ground feeding mammals. The U.S. Fish and Wildlife mapping system IPaC was used to determine if critical habitat and endangered species utilize the subject property and vicinity. Within approximately one square mile, the mapping system identified two mammals: the Grey Wolf and North American Wolverine; three birds: Marbled Murrelet, Streaked Horned Lark, Yellow-billed Cuckoo; one amphibian: Oregon Spotted Frog; two fish: Bull Trout and Dolly Varden; and one critical habitat: Bull Trout habitat. Our site is outside the critical habitat for the three birds and the amphibian. Our site is above Nookachamps Creek by at least 20 feet elevation and is outside of the waterway of the creek and therefore outside of the Bull Trout habitat and fish habitat areas. Based upon the contamination being present in the developed portion of the site, the site is unlikely habitat for the wolf or wolverine. A copy of the Fish and Wildlife summary report is provided in Appendix II.

6.2.2 Selection of an Appropriate Evaluation Method

The Glenn's Diesel site is currently utilized as a commercial/light industrial property and is zoned as Urban-Reserve Commercial-Industrial (URC-1). Based upon WAC 173-360-7490, industrial and commercial properties need only to be evaluated for terrestrial wildlife protection. Plants and soil biota do not need to be evaluated at the site because of its commercial/industrial use.

We propose that the concentrations presented in MTCA Table 749-3 be used for the contaminants of concern for protection of wildlife.

6.2.3 Ecologically Protective Soil Concentrations

The cleanup standards for protection of wildlife, based upon MTCA Table 749-3 for the contaminants of concern are presented in Table 3, along with the MTCA Method A cleanup standard for protection of human health, for comparsion.

Table 3. Cleanup standards for protection wildlife and human health

Analyte	Ecological Indicator Concentrations for Wildlife, TEE Table 749-3 (mg/kg)	MTCA Method A (mg/kg)
Cadmium	14	2
Lead	118	250
Oil (and diesel)-range petroleum	6,000	2,000

6.3 Site-specific Cleanup Standards

The most restrictive cleanup standard applicable for the contaminants of concern for protection of human health and/or wildlife will be used. A summary of the proposed site-specific cleanup standards for the site are presented in Table 4. These cleanup standards were utilized during the 2018 site cleanup action and all residual soil samples collected during the investigation met these standards.

Table 4. Site-specific cleanup standards

Analyte	Cleanup Standards (mg/kg)	Source of Standard
Cadmium	2	MTCA Method A
Lead	118	MTCA TEE Table 749-3
Oil (and diesel)-range petroleum	2,000	MTCA Method A

7.0 SOIL EXCAVATION AND CLEANUPS

Soil removal and cleanup actions took place in 2014 and 2018. Both cleanups were completed by Stratum Group, during different property ownerships.

7.1 2014 Soil Cleanup

Shallow soil was excavated from two areas of contamination on August 28, 2014. MTCA Method A cleanup standards were used as a screening level for evaluating the sample data.

An area of oil-range petroleum contaminated soil was excavated from along the western property boundary. The excavation area is down gradient of the former pump islands of the adjacent Big Rock Grocery. A gasoline spill impacted this area in 2008, confirmed by 2008 sampling by Skagit County Health; however, 2014 sampling of the same area found no gasoline

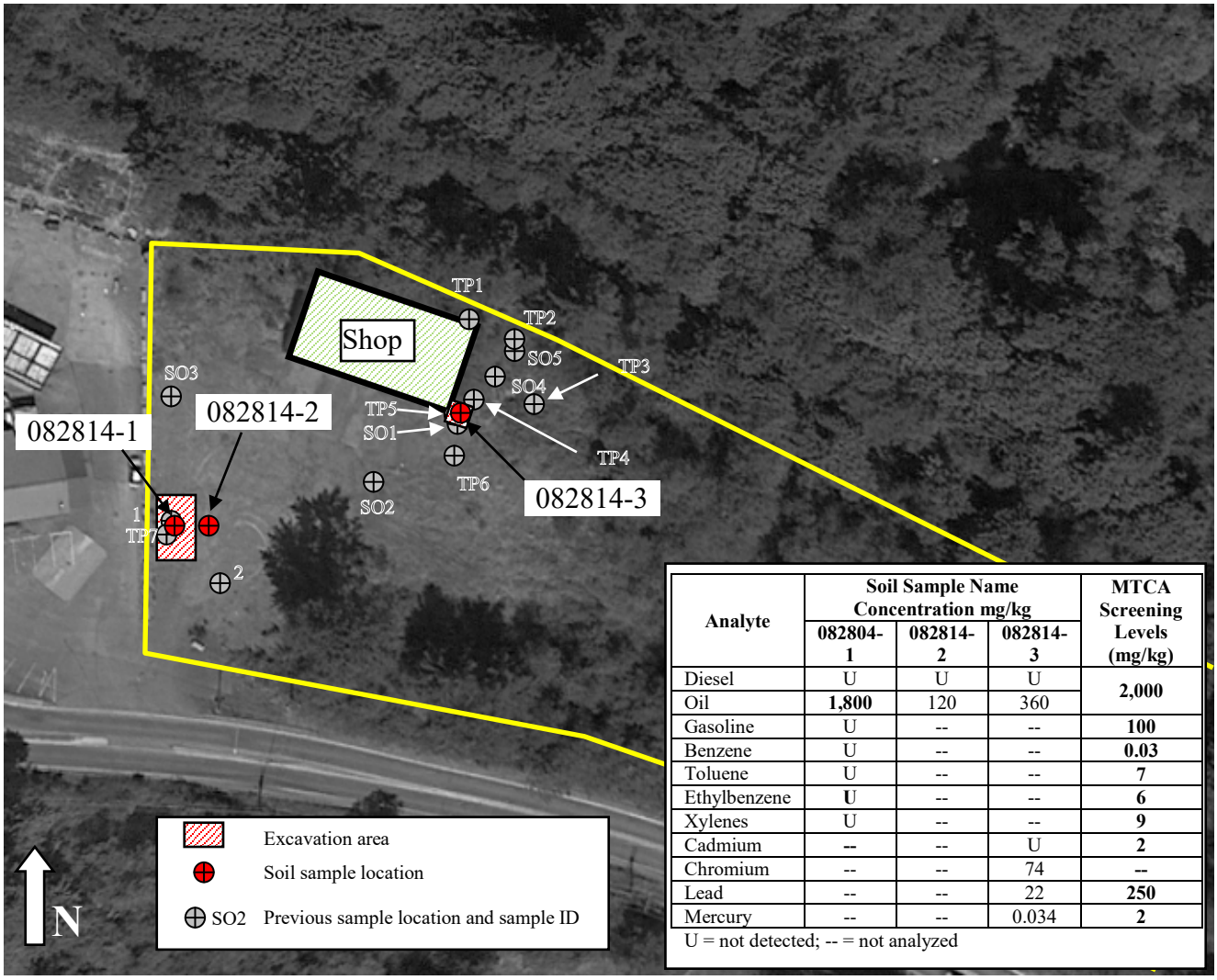
contamination, but an exceedence of oil-range petroleum. The source of the oil was not determined. An area approximately 12 feet long, 8 feet wide and 0.4 feet deep was excavated from along the western property boundary. No discoloration or sheen was noted during the excavation; however, a minor hydrocarbon odor was noted. One soil sample was collected from the floor of the excavation (082814-1) and one sample was collected from the non-excavated east side of the excavation (082814-2). Both confirmation soil samples were below the MTCA Method A standard.

A second area of oil-range and cadmium contaminated soil was excavated from the southeastern corner of the building. The area of excavation was approximately 5 feet long, 5 feet wide, and approximately 0.75 feet deep. One confirmation soil sample was collected from the middle, base of the excavation. The sample was tested for diesel and oil-range petroleum and concentrations were below MTCA Method A standards.

A total of 3.34 tons of soil was excavated from the site. The property owner, Greg Johnston, coordinated for off-site transport and disposal of the soil. The soil was delivered to CEMEX in Everett on August 29, 2014.

The cleanup actions removed the impacted soil identified in TP5 and TP7 from the 2014 test pit investigation. The cleanup areas with confirmation soil sample locations and results are provided in Figure 7. No cleanup report was completed for this cleanup work; however, documentation of the cleanup including photographs of the site, laboratory report and soil disposal ticket are provided in Appendix III.

An area of cadmium-impacted soil (TP6) remained onsite following the 2014 cleanup activities.



Analyte	Soil Sample Name Concentration mg/kg			MTCA Screening Levels (mg/kg)
	082804-1	082814-2	082814-3	
Diesel	U	U	U	**2,000**
Oil	**1,800**	120	360	
Gasoline	U	--	--	**100**
Benzene	U	--	--	**0.03**
Toluene	U	--	--	**7**
Ethylbenzene	**U**	--	--	**6**
Xylenes	U	--	--	**9**
Cadmium	**--**	--	U	**2**
Chromium	--	--	74	**--**
Lead	--	--	22	**250**
Mercury	--	--	0.034	**2**

U = not detected; -- = not analyzed

Figure 7. Confirmation soil samples from 2014 soil removal

7.2 2018 Soil Cleanup

BYK Construction initiated the 2018 soil removal and cleanup activities with the goal of getting the site off the contaminated sites list. The cleanup activities were undertaken to address the residual metal impacted soil on the site that remained after the 2014 cleanup work, as well as to provide additional confirmation sampling. BYK and/or their subcontractors provided the excavation and transportation of the soil to the off-site disposal facility.

BYK Construction began occupying the property in summer 2018 and upgraded the shop building with a new roof, new siding, new doors, and added a chain link fence along the site perimeter. Joe Woodmansee of BYK Construction stated that no debris or petroleum contamination was identified during installation of the chain link fence. He stated that a few

hundred tires were removed from just east of the site entrance from State Route 9 after their purchase.

7.2.1 Soil Excavation

Six excavation events took place between September and December 2018: September 28, October 11, October 26, November 16, November 28, and December 5, 2018. Excavation was completed each day with samples collected from the excavated area and along the non-excavated edges of the excavation. If a sample exceeded the standards, additional excavation would take place during the next excavation day that included the sample location and additional area (minimum of 10 by 10 feet).

Stratum Group returned to the site on September 28, 2018 to oversee shallow soil excavation and collect confirmation samples. Based upon previous sampling efforts, shallow cadmium impacted soil was known to exist southeast of the building that required removal. Additionally, a confirmation sample was needed from northeast of the building where previous sampling had identified the presence of cPAH contamination, two samples were collected from the former tire storage area to the east of the property entrance, and one sample was collected from the stockpile for TCLP analysis. The excavation on September 28 was 33 feet long by 14 feet wide and ranged from 3 to 8 inches deep. Two samples were collected within the excavation and three samples were collected from non-excavated edges of the excavation.

Lead and cadmium exceeded in the samples around the shallow excavation, so the original 33 foot by 14 foot excavation was expanded to the east and south on October 11, 2018. Significant debris was encountered in the shallow fill soils of the expanded excavation area including bolts, nuts, wires, rubber, small metal car parts, and pieces of broken asphalt. The excavation was extended to below the dense fill until no debris was observed; however, the final excavation area was still within fill material. Five sample locations were re-sampled and three new samples of unexcavated edge were collected. The excavation area after October 11, was approximately 36 feet long, 17 feet wide, and ranged from 6 to 14 inches deep.

Additionally one of the samples collected from the former tire area exceeded the cleanup level for cadmium and lead. However, since our last visit, BYK Construction had removed a nearby stump and accidently broke an electrical line to the shop building. In order to repair the broken line, significant trenching and excavation work was done in the vicinity of the sample that exceeded and the soil was heavily disturbed. One new sample was collected from the former tire vicinity on October 11, 2018. The sample met the cleanup standards. Therefore, no soil removal was undertaken near the former tire storage area.

The sample results after the October 11 excavation found the base of the excavation to meet standards, but required an expansion of the excavation to the north and east on October 26, 2018. A deeper area of fill materials with some field indicators of petroleum was encountered east of the southeast corner of the building during excavation and therefore the excavation was extended

up to 3.5 feet deep, until no debris was encountered and petroleum indicators had ceased. The 3.5-foot deep excavation was approximately 18 feet long and 16 feet wide. Sample 18 was collected from base of deeper excavation and Sample 19 & 20 was collected from the sidewalls of this deeper excavation area. Samples 18, 19, 20 included an analysis for diesel and oil-range petroleum based upon field indicators that petroleum may be present. The excavation as of October 26 was 36 feet long by 22 feet wide and ranged in depth from 6 inches to 3.5 feet deep.

Stratum Group returned to the site on November 16, 2018. The sample results indicated that the samples from the excavated areas were clean and BYK was able to start backfilling the clean areas with clean fill material; however, the samples collected from the non-excavated edges of the excavation exceeded the cleanup standards. The excavation was expanded again to the north and east on November 16. Debris such as bolts, plastic ties, metal plates, wires and hard rubber gaskets were observed within the shallow soil.

Excavation was further expanded to the north, east and southeast on November 28, 2018, based upon samples collected on November 16, 2019, which exceeded the cleanup standards. Native brown organic-rich silt was encountered. Seven soil samples were collected, four of which were re-sampled locations after soil was removed from the excavation and three were non-excavated edge samples.

The excavation was expanded to the east on December 5, 2018 by approximately 14 feet. A deeper area of debris was encountered in the northeast corner of the excavation. Debris included bottles, metal, rubber pucks, wires, an air filter, plastic sheeting and metal car parts. The area was excavated to approximately 3.5-foot depth. Exposed sidewalls indicate that the site is underlain by 1.5-2 feet of dark brown organic-rich silt underlain by tan clay. The soil was excavated until no debris was observed. Six samples were collected.

The final excavation was irregularly shaped, but roughly 74 feet wide and 68 feet long. The depth of the excavation ranged from approximately 4 inches to 3.5 feet deep.

7.2.2 Soil Sampling

Soil was placed into one 4-ounce soil jar at each sampling location using a stainless steel spoon. Each sample jar was labeled with its appropriate sample name and immediately placed into an ice-filled cooler.

Sampling equipment was cleaned with alconox between each sampling location and triple rinsed in order to reduce cross-contamination. New personal protection equipment (i.e. gloves) was used for each sampling location to reduce cross-contamination.

Soil sample identification includes the sample date followed by sequential sample numbers (i.e. the fifth sample from September 28 had an ID of 090818-5). The samples from the next excavation days would include that new date followed by a continuation of the sample number

sequence.

The samples were delivered to ALS Laboratory in Everett, Washington for analysis on each day of sample collection. Each soil sample was analyzed for cadmium and lead, which had been determined to be the indicator contaminants on the site. A few samples were analyzed for additional contaminants, based upon previous sampling information and/or field indicators.

7.2.3 Soil Sample Results

A total of 40 soil samples were collected throughout the 2018 cleanup activity. The laboratory results were compared to the site-specific cleanup standards for the Glenn's Diesel site to determine if additional excavation was required.

Seventeen of the soil samples exceeded the cleanup standards. Based upon these results, additional excavation took place to remove further soil from these areas and follow-up samples were collected from the new surface soil to determine residual soil concentrations.

A map of the 2018 excavation area with the confirmation soil sample locations is provided in Figure 8. Sample data from the cleanup is provided in Tables 5 and 6. Table 5 indicates the results of the confirmation samples and represents the soil that remains on the site. Table 6 contains the soil sample data from soil that later over-excavated and removed from the site.

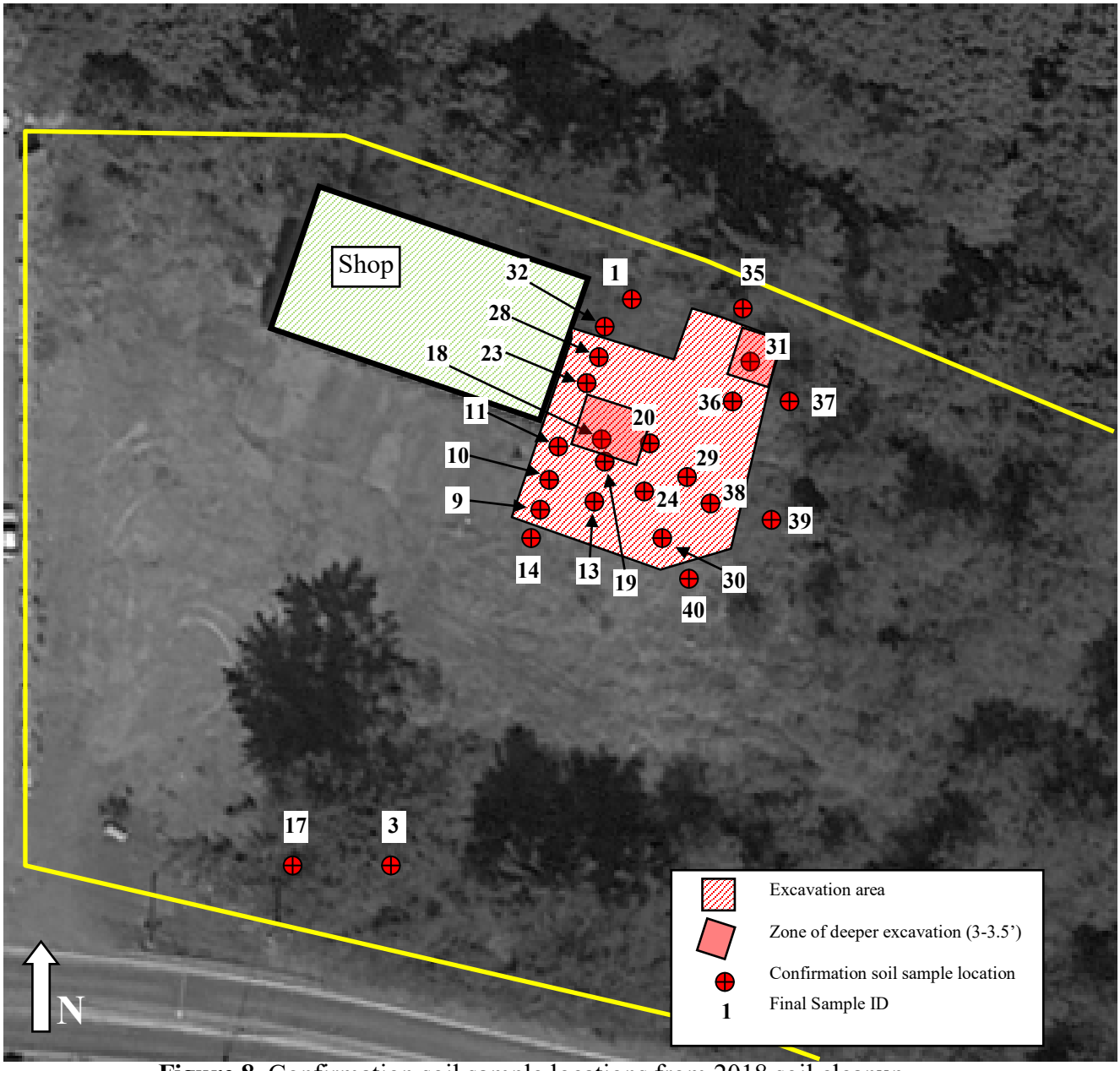


Figure 8. Confirmation soil sample locations from 2018 soil cleanup (scale is ~1" = 65')

Table 5. Confirmation soil sample results from 2018 cleanup

	Map ID	Sample Number	Analyte Concentration (mg/kg)								
			Cd	Pb	Cr	As	Hg	Gas	Diesel	Oil	cPAH
Confirmation samples; Soil remains in place	**1**	092818-1	--	--	--	--	--	--	--	--	U<0.02
	3	092818-3	0.76	110	76	9.1	0.079	U<20	U<50	330	--
	9	101118-9	0.28	59	--	--	--	--	--	--	--
	10	101118-10	0.32	75	--	--	--	--	--	--	--
	11	101118-11	0.21	21	--	--	--	--	--	--	--
	13	101118-13	0.29	65	--	--	--	--	--	--	--
	14	101118-14	0.63	55	--	--	--	--	--	--	--
	17	101118-17	1.6	72	--	--	--	--	--	--	--
	18	102618-18	0.17	13	--	--	--	--	U<25	U<50	--
	19	102618-19	0.28	19	--	--	--	--	U<29	81	--
	20	102618-20	0.17	14	--	--	--	--	U<25	57	--
	23	111618-23	0.25	70	--	--	--	--	--	--	--
	24	111618-24	0.15	19	--	--	--	--	--	--	--
	28	112818-28	0.21	46	--	--	--	--	--	--	--
	29	112818-29	0.40	75	--	--	--	--	--	--	--
	30	112818-30	0.26	64	--	--	--	--	--	--	--
	31	112818-31	0.75	50	--	--	--	--	--	--	--
	32	112818-32	1.1	70	--	--	--	--	--	--	--
	35	120518-35	1.1	42	--	--	--	--	--	--	--
	36	120518-36	0.30	23	--	--	--	--	--	--	--
	37	120518-37	**2.2**	60	--	--	--	--	--	--	--
	38	120518-38	0.44	29	--	--	--	--	--	--	--
	39	120518-39	2.0	62	--	--	--	--	--	--	--
	40	120518-40	0.22	61	--	--	--	--	--	--	--
Cleanup Levels (mg/kg)			***2***	***118***	***2,000***	***20***	***2***	***100***	***2,000***		***0.1 TEF***
Source of Cleanup Standards			Method A	Wildlife	Method A	Method A	Method A	Method A	Method A		Method A

U = analyte not detected at reporting limit; shaded box with red bold type indicates sample exceeds cleanup standard

Table 6. Excavated soil sample data from 2018 cleanup

	Sample Number	Map Location ID$_a$	Analyte Concentration (mg/kg)							
			Cd	Pb	Cr	As	Hg	Gas	Diesel	Oil
Soil Excavated	092818-2	17	**2.1**	**120**	73	7.5	0.18	U<20	U<50	620
	092818-4	10	**6.7**	**190**	--	--	--	--	--	--
	092818-5	11	**9.4**	**290**	--	--	--	--	--	--
	092818-6	9	**4.2**	**120**	--	--	--	--	--	--
	092818-7	13	**8.3**	**200**	--	--	--	--	--	--
	092818-8	18	**4.0**	**180**	--	--	--	--	--	--
	101118-12	18	**5.2**	**190**	--	--	--	--	--	--
	101118-15	--	**2.8**	**130**	--	--	--	--	--	--
	101118-16	--	**3.5**	91	--	--	--	--	--	--
	102618-21	23	**4.1**	**140**	--	--	--	--	--	--
	102618-22	24	**2.4**	**120**	--	--	--	--	--	--
	111618-25	28	**2.3**	61	--	--	--	--	--	--
	111618-26	29	**2.9**	**310**	--	--	--	--	--	--
	111618-27	30	**3.6**	**160**	--	--	--	--	--	--
	112818-33	36	**4.2**	**180**	--	--	--	--	--	--
	112818-34	38	**2.6**	110	--	--	--	--	--	--
Cleanup Levels (mg/kg)			***2***	***118***	***2,000***	***20***	***2***	***100***	***2,000***	
Source of Cleanup Standards			Method A	Wildlife	Method A	Method A	Method A	Method A	Method A	

a = location where these earlier samples had been collected, but the area was over-excavated to remove this soil; soil data in bold red type exceed the cleanup standards; U = analyte not detected at reporting limit

All of the soil represented by samples within Table 6 was over-excavated and the soil was disposed of off-site, except for the soil in the vicinity of Sample 092818-2 (map #17). The soil had been highly disturbed in the area, following the removal of a stump and repair of a broken electrical line. No soil was removed from this area; however, a sample collected from the same location as 092818-2 (Sample 17) after the ground disturbance met cleanup standards.

A total of 24 samples provide confirmation of the residual soil conditions on the site. Twenty-one confirmation samples were collected from the floor of the excavation and the unexcavated edges of the excavation. One additional confirmation soil was collected in an area where previous sampling had indicated cPAHs were present. The 2018 sample from this location (092818-1) showed the sample to be non-detect for cPAHs and therefore no excavation was completed in the vicinity of this sample. Additionally, two confirmation samples were collected from the former tire storage area, east of the site entrance. Based upon soil mixing and disturbance in the area, followed by a clean sample, no soil was removed from the tire pile area. Sample locations 15 and 16 were over-excavated, but were not re-sampled due to the number of other samples in the near vicinity. These samples were located near Samples 18 and 19.

All confirmation samples meet the cleanup standards identified for the site through direct comparison, except for sample 120518-37 (map#27).

One of the residual soil samples remains slightly above the cleanup standards for the site for cadmium. The MTCA regulations (173-340-740 (7)) allows some samples to exceed direct comparison cleanup values, as long as the following conditions are met:

- No sample can be greater than two times the cleanup standard
- Less than 10% of samples can exceed standards

MTCA regulations require that no single sample concentration be greater than two times the cleanup standard. The highest residual cadmium concentration is 2.2 mg (cleanup level is 2 mg/kg). Based upon our direct comparison of soil contaminant concentrations to cleanup levels, this sample does not exceed the cleanup standard by two times and therefore the site meets this requirement.

Less than ten percent of the samples can exceed the cleanup standard. One of twenty-four confirmation samples exceeded the standards (4%). Based upon this analysis, our sampling meets the requirement of less than 10% exceedences.

Based upon our confirmation soil sampling, all of the residual soils meet the applicable cleanup standards, and therefore and no further cleanup is warranted.

7.2.4 Soil Disposal

The stockpiled soil was approved for disposal from the site based upon a composite stockpile sample collected on September 28, 2018. The sample was evaluated for RCRA metals using the TCLP analysis, which mimics the landfill conditions to see if the metals in the soil are able to mobilize. The results from the TCLP analysis is provided in Table 7.

Table 7. TCLP data for Glenn's Diesel

Analytes	**Sample Numbers Concentration (mg/L)**	***Maximum TCLP Concentration*** $_a$ *(mg/L)*
	092818-9	
Arsenic	U<0.025	***5***
Barium	0.54	***100***
Cadmium	0.032	***1***
Chromium	U<0.025	***5***
Lead	U<0.025	***5***
Mercury	U<0.025	***0.2***
Selenium	U<0.025	***1***
Silver	U<0.025	***5***

a = TCLP is an analysis to determine the amount of metals that are able to be leached from the soil under laboratory induced "landfill" conditions. Results are used to determine if soil is hazardous or non-hazardous for disposal purposes; U = analyte was not detected below the reporting limit, which is in the parentheses.

A total of 288.02 tons of metal-impacted soil was delivered to the Regional Disposal Intermodal facility at 3rd and Lander in Seattle, Washington between October 25 and December 13, 2019. The material was transported by dump truck with nineteen deliveries to the disposal facility. Copies of the soil disposal tickets are provided in Appendix III.

8.0 NATURE AND EXTENT OF CONTAMINATION

8.1 Circumstance of Release and Discovery

Contamination was identified on the site during an environmental observation of the site by Department of Ecology in 1998 and the site became a listed contaminated site. The contamination listing was due to visibly poor storage and management practices at the truck repair facility, including oil stains on surface soils. The first confirmed soil contamination concentrations were identified during the December 2001 sampling by the local health department as part of a site hazard assessment.

8.2 Affected Media

Soil contamination has been confirmed on the site. No other media have been evaluated and no other media is suspected on the site, based upon our site review and observations. No groundwater has been encountered on the site.

8.3 Contaminant Identification

Petroleum, metals and cPAH contamination has been confirmed on the site through at least one sampling event. The primary contaminants on the site are presented in Table 8. These contaminants exceeded the MTCA Method A cleanup standard in at least one sample during the various sampling events between 2001 and 2018. The MTCA Method A cleanup standards were used as screening levels for most of the sampling events at the site.

Table 8. Site Specific Contaminants of Concern

Primary Contaminants
• **Oil** • **Cadmium** • **Lead**

Gasoline and cPAH were detected above the MTCA Method A cleanup standards in one sample. The gasoline was detected along the western boundary in 2008; however pre-cleanup sampling to evaluate for conditions in 2014 found no detection of gasoline in the pre-cleanup or post-cleanup samples. Carcinogenic PAH was detected in one sample to the northeast of the shop building in 2001; however a follow-up sample collected in 2018 found cPAH to be non-detect. Based upon the

non-detect follow up samples, cPAH and gasoline were not considered primary contaminants, as cleanup was determined to not be needed for these analytes. Numerous other contaminants were tested on various samples including diesel, barium, chromium, mercury, selenium, benzene, toluene, ethylbenzene, xylenes, MTBE and VOCs. Detections of these potential contaminants were identified in some of the samples, but well below the MTCA Method A standards and therefore were not considered primary contaminants.

8.4 Extent and Magnitude of Contamination

8.4.1 Extent of Soil Contamination

Soil contamination was originally detected in four areas within the western portion of the parcel: the western property boundary, east of the shop, northeast of the shop, and east of the entrance to the property from State Route 9. Excavation took place along the western property boundary in 2014. Excavation took place adjacent to the southeastern corner of the building in 2014. Additional excavation took place east of the building in 2018. Follow up samples to the northeast of the shop (092818-1) and east of the entrance to the site near the former tire storage area (092818-17) were collected to evaluate the site conditions and the original contaminants were either non-detect or well below the cleanup standards. Based upon these follow up sample results, no excavation was conducted northeast of the shop or east of the entrance.

A map of the estimated horizontal extent of the soil contamination is provided in Figure 9, below.

Figure 9. Horizontal Extent of soil contamination

The contamination was limited to the upper soils of site. The excavation work included removal of 4 inches to 3.5 feet of soil. No contamination was identified below 3.5 foot depth and therefore 3.5 feet is the vertical extent of the contamination on the site.

8.4.2 Extent of Groundwater Contamination

No groundwater was encountered during the soil cleanup of the site.

8.5 Sources of Contamination

8.5.1 Onsite Sources of Contamination

The shop building and surrounding areas were utilized as Glenn's Diesel, a truck repair facility, from at least 1977 through the early 2010s. Historical aerial photographs indicate that vehicles and equipment were scattered throughout the western end of the property including to the south, east and southeast of the shop building from at least 1978 through 2012. All stored vehicles and equipment had been removed from the site by 2014.

Poor exterior storage practices are suspected to be the most likely source of contamination, as well as former pressure washing runoff, presence of debris on site surface soils, shallow burial of debris and parts, and weathering and repair of vehicles on the site exterior.

8.5.2 Potential Off-site Sources of Contamination

The Big Rock Grocery, which has operated as a gasoline station since at least the 1930s, is an adjacent site that is listed as a contaminated site with Ecology. The site utilizes the address 14779 State Route 9 and bounds the site to the west. The Big Rock Grocery property originally shared the same parcel with the subject property; however, they were later separated into two parcels. A pump island and one generation of underground storage tanks were previously located southeast of the Big Rock Grocery and up gradient of the subject property. Our review of a tank closure report for the Big Rock Grocery from 1997 indicates that that no contamination was encountered during the removal of one 4,000-gallon gasoline tank, one 1,000-gallon gasoline tank, and one 1,000-gallon diesel tank during tank removal; however soil contamination was encountered west of the Big Rock Grocery building near a closed-in-place UST.

A spill was documented from the site in 2008, in which fuel flowed toward the subject property. The health department identified gasoline in one of the shallow soil samples collected from along the western boundary of the subject property in 2008, in response to the spill. A follow up sample collected by Stratum Group in roughly the same location found no gasoline in the shallow soil, but an exceedence of oil-range petroleum. The source of the oil in the gravel parking area along the western property boundary could be partially due to runoff from vehicles from the Big Rock Grocery or from former parking and storage by the truck repair business.

9.0 CONCEPTUAL SITE MODEL

The contaminant release at the Glenn's Diesel site was likely due to poor management practices on the site's surface. No underground equipment or tanks have been identified on the site.

The exposure pathways to the contaminants are through direct contact. The contamination was previously present to depth of up to 3.5 feet, but was primarily located within the upper 8 inches. The potential receptors of the contamination are humans and wildlife.

A sketch of the conceptual site model is provided in Figure 10, below. The conceptual map indicates the original impacts to the site, prior to the 2014 and 2018 cleanup activities.

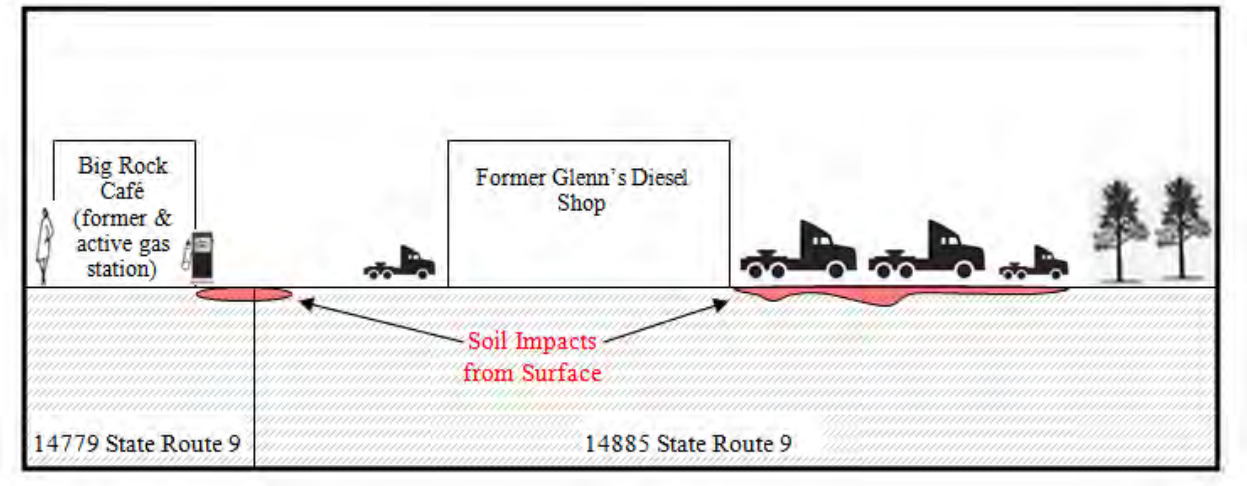


Figure 10. Conceptual site model

A small excavation and cleanup took place in 2014 and a more significant cleanup took place in 2018 to remove all impacted soils. No contaminants remain on the site that exceed the cleanup standards, to the best of our knowledge.

10.0 FINDINGS

Our review of available environmental documentation found that petroleum and metal impacts were present in the shallow soils at the site due to poor management practices during the site's operation as a truck repair facility from at least 1977 through the early 2010s and a fuel spill from the neighboring property.

Site sampling events took place in 2001, 2008 and 2014 at the Glenn's Diesel site. A small soil excavation took place in 2014 to remove petroleum-impacted soil and a more significant cleanup

took place in 2018 to remove metal impacted soil. Excavation took place over approximately 1,800 square feet. The excavation depths ranged from 4 inches to 3.5 feet deep. A total of 294.56 tons of soil has been removed from the site for proper disposal. No groundwater was encountered.

Confirmation soil sampling found the site to meet the cleanup standards for protection of human health and wildlife for cadmium, lead, and oil-range petroleum, which were identified as the primary contaminants of concern and the drivers for the cleanup action.

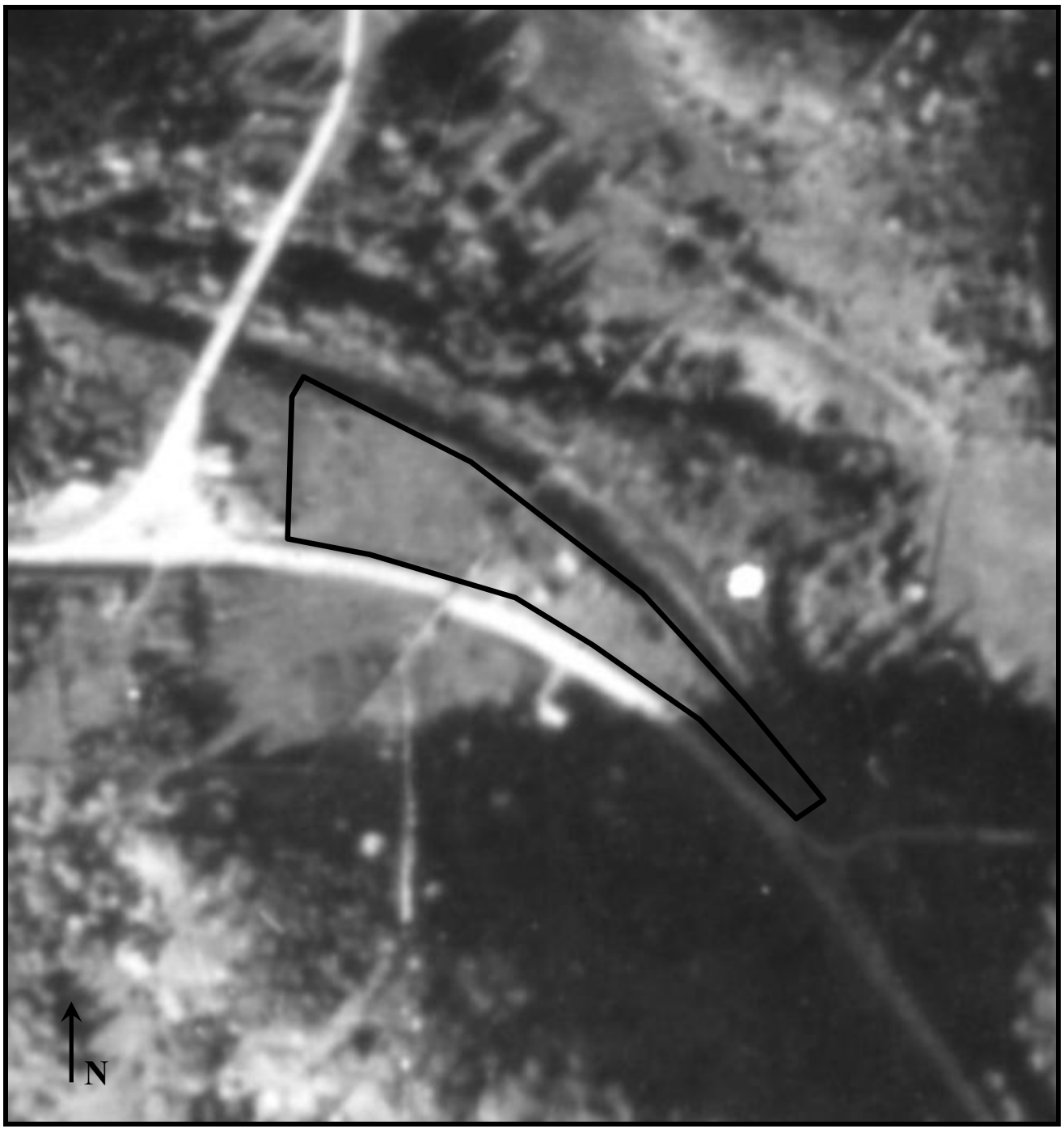
It is our opinion that based upon the cleanup actions taken at the site in 2014 and 2018, the residual soils on the site meet the MTCA cleanup regulations and therefore no further investigation is warranted. We recommend that the site enter into Department of Ecology's Voluntary Cleanup Program with a request for a "no further action" determination.

APPENDIX I

Aerial Photographs

Well Log

Aerial Photographs



1937 Aerial Photograph

1969 Aerial Photograph

1978 Aerial Photograph

1993 Aerial Photograph

2006 Aerial Photograph

Amended Copy

RECEIVED
SEP 14 1993
DEPT. OF ECOLOGY

34/4E/14P

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. W 09688 W09688
Water Right Permit No.

(1) OWNER: Name SCHOPF, GEORGIA Address 1207 JAMESON SEDRO WOOLLEY, WA 98284-

(2) LOCATION OF WELL: County SKAGIT - SE 1/4 SW 1/4 Sec 14 T 34 N., R 4 WM
(2a) STREET ADDRESS OF WELL (or nearest address) 1539 HWY 9 MT VERNON

(3) PROPOSED USE: MUNICIPAL

(4) TYPE OF WORK: Owner's Number of well (If more than one)
NEW WELL Method: ROTARY

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 400 ft. Depth of completed well 400 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 100 ft.
WELDED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name
Type Model No.
Diam. slot size from ft. to ft.
Diam. slot size from ft. to ft.

Gravel packed: NO Size of gravel
Gravel placed from ft. to ft.

Surface seal: YES To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level ft. below top of well Date 07/20/93
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time	Water Level	Time	Water Level	Time	Water Level

Date of test / /
Bailer test gal/min. ft. drawdown after hrs.
Air test gal/min. w/ stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made?

(10) WELL LOG

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
Crushed rock	0	1
BROWN CLAY	1	12
BROWN CLAY & GRAVEL	12	16
BLUE CLAY & GRAVEL	16	35
BLUE CLAY	35	60
BLUE CLAY & GRAVEL	60	85
BLACK SHALE	85	120
SOAP STONE - green	120	135
BLACK SHALE	135	220
GRAY SOAP STONE	220	400
	400	

NO WATER

Well Located According
Ordinance 12.48 Skagit County

Work started 07/15/93 Completed 07/20/93

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DAHLMAN PUMP & WELL DRILL
(Person, firm, or corporation) (Type or print)

ADDRESS PO BOX 422, BURLINGTON, WA

[SIGNED] Ralph W. Dahlman License No. 2043

Contractor's
Registration No. DAHLMPW123LC Date 07/21/93

APPENDIX II

Terrestrial Ecological Evaluation Form

Fish & Wildlife Summary Report

Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation. You still need to submit your evaluation as part of your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Glenn's Diesel	
Facility/Site Address: 14885 State Route 9, Mount Vernon, WA 98274	
Facility/Site No: 26541964	VCP Project No.:

Step 2: IDENTIFY EVALUATOR			
Please identify below the person who conducted the evaluation and their contact information.			
Name: Kim Ninnemann			Title: geologist
Organization: Stratum Group			
Mailing address: PO Box 2546			
City: Bellingham		State: WA	Zip code: 98227
Phone: 360-714-9409	Fax:	E-mail: kim@stratumgroup.net	

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2**.*

☒ No or Unknown *If you answered **"NO" or "UKNOWN,"** then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? *Check all that apply. Then skip to **Step 4** of this form.*

Point of Compliance: WAC 173-340-7491(1)(a)

☐ All soil contamination is, or will be,* at least 15 feet below the surface.

☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

☐ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.

☐ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☒ No or Unknown *If you answered **"NO"** or **"UNKNOWN,"** then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 3** below.*

☐ No *If you answered **"NO,"** then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

☐ Yes *If you answered **"YES,"** then answer **Question 4** below.*

☐ No *If you answered **"NO,"** then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*

☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? *Check all that apply. Then skip to **Step 4** of this form.*

Exposure Analysis: WAC 173-340-7492(2)(a)

☐ Area of soil contamination at the Site is not more than 350 square feet.

☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. *See* WAC 173-340-7493(1)(c).

1. Was there a problem? *See* WAC 173-340-7493(2).

☒ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No *If you answered **"NO,"** then identify the reason here and then skip to **Question 5** below:*

- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? *See* WAC 173-340-7493(3).

☒ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*

☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

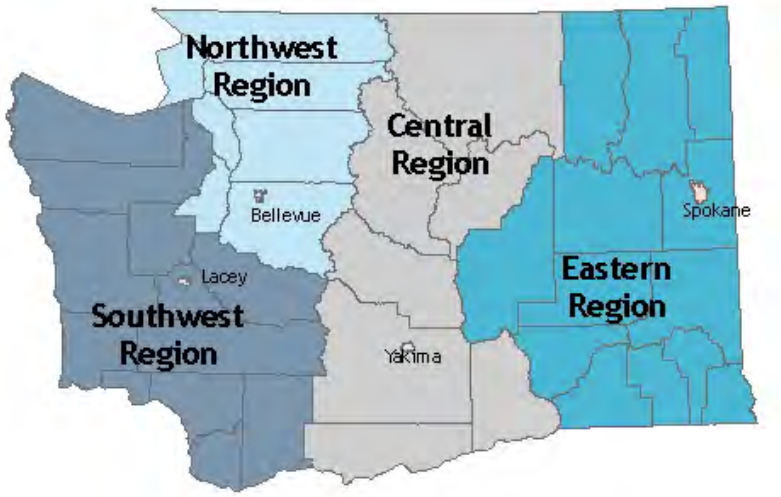
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

☐ Yes If so, please identify the Ecology staff who approved those steps:

☒ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: Sara Nied 3190 160th Ave. SE Bellevue, WA 98008-5452	**Central Region:** Attn: Mark Dunbar 15 W. Yakima Ave., Suite 200 Yakima, WA 98902
Southwest Region: Attn: Scott Rose P.O. Box 47775 Olympia, WA 98504-7775	**Eastern Region:** Attn: Patti Carter N. 4601 Monroe Spokane WA 99205-1295

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Skagit County, Washington

Local office

Washington Fish And Wildlife Office

(360) 753-9440
(360) 753-9405

510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263

http://www.fws.gov/wafwo/

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS

Gray Wolf Canis lupus — Proposed Endangered
No critical habitat has been designated for this species.

North American Wolverine Gulo gulo luscus — Proposed Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/5123

Birds

NAME	STATUS
Marbled Murrelet Brachyramphus marmoratus There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/4467	Threatened
Streaked Horned Lark Eremophila alpestris strigata There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/7268	Threatened
Yellow-billed Cuckoo Coccyzus americanus There is **proposed** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog Rana pretiosa There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Bull Trout Salvelinus confluentus There is **final** critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/8212	Threatened
Dolly Varden Salvelinus malma No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1008	PSAT

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME	TYPE
Bull Trout Salvelinus confluentus https://ecos.fws.gov/ecp/species/8212#crithab	Final

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Sep 30
Great Blue Heron *Ardea herodias fannini* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 15 to Aug 15
Olive-sided Flycatcher *Contopus cooperi* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Rufous Hummingbird *selasphorus rufus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8002	Breeds Apr 15 to Jul 15

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season ( )
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

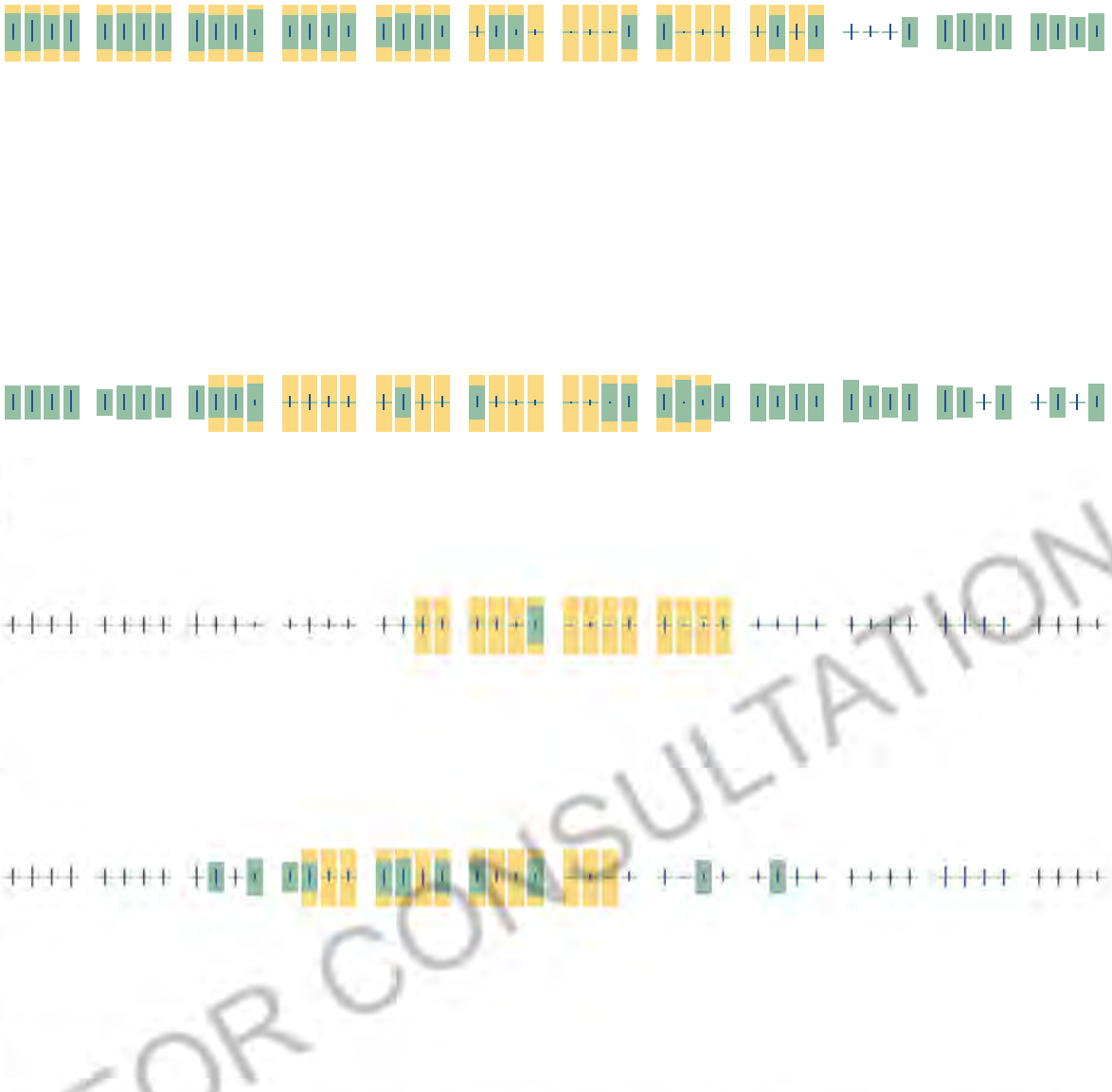
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

probability of presence | breeding season | survey effort | – no data

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC



Bald Eagle
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Great Blue Heron
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Olive-sided Flycatcher
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Rufous Hummingbird
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the E-bird Explore Data Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1C

FRESHWATER FORESTED/SHRUB WETLAND

PFOC

FRESHWATER POND

PABFh

RIVERINE

R2UBH
R3UBH
R4SBC
R5UBH

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this

inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

APPENDIX III

1998 Inspection and contaminated sites listing (Ecology)

2002 Site Hazard Assessment (Skagit Health Department)

2008 Spill response sampling (Skagit Health Department)

2008 Notice of violations (Skagit Health Department)

2014 Test Pit Investigation (Stratum Group)

2014 Cleanup Documents (Stratum Group)

2018 Cleanup Documents (Stratum Group)

1998 Inspection and contaminated sites listing (Ecology)

PETER BROWNING, DIRECTOR
HOWARD LEIBRAND, HEALTH OFFICER

700 SOUTH SECOND STREET #301, MOUNT VERNON, WA 98273, TEL (360) 336-9380 FAX (360) 336-9401

CERTIFIED MAIL
Return receipt requested

NOTICE TO CORRECT VIOLATIONS

March 31, 2008

Gregory and Kathy Johnston
P.O. Box 876733
Wasilla, AK 99687

Glenn McGoff
14823 State Route 9
Mt. Vernon, WA 98273

Copy hand delivered by Patty Mulder 4/29/08

RE: Violations of Skagit County Code 12.16, Solid Waste Handling and Facilities at 14823 State Route 9, Mount Vernon, WA, Parcel P24750

Dear Mr. and Mrs. Johnston and Mr. McGoff:

The Skagit County Public Health Department (Health Department) received a complaint on property you own and occupy, Skagit County Parcel P24750, Glenn's Diesel. The complaint concerned general conditions at the site and the disposal of solid waste over a bank to the Nooksack River.

Site investigations
On February 7, 2008 Matt Kaufman and I performed a site visit. Glenn McGoff was present and walked the property with us. The property is used as a diesel truck maintenance yard. Numerous truck hulks were present throughout the property. General solid waste accumulation is scattered all over the ground in the form of metals and debris from the business. A pallet of vehicle batteries was present out in the open. A 55 gallon drum filled with used oil was on asphalt pavement but not under cover of a roof. Puddles present on the ground surface in the dirt parking/drive area had sheen indicative of petroleum contamination. To the east of the garage building soil mixed with solid waste had been pushed down the bank toward the buffer to the Nookachamps Creek. Metal objects, tires, pallets, plastics and other debris were visible mixed with the dirt.

This property was inspected in 1998, 1999, and 2001 for hazardous waste handling and contamination issues. It is listed on the Washington State Hazardous Sites list as a contaminated property. We have no evidence that any clean up of contaminated soils has occurred on the property. There are still hazardous waste storage issues and visible contamination on the ground surface.

Site violations
The chronic improper use of the property for junk vehicle storage and dismantling, solid waste dumping, and hazardous substance storage and release has resulted in the following violations of Skagit County Code 12.16, Solid Waste Handling and Facilities. Specific sections of the code are attached to this notice:

12.16.210 Moderate risk waste, used oil, and hazardous substance handling.

Used oil drum and vehicle batteries are present on the property not protected from weather or spills. Oil/fluids have been released to the ground surface.

12.16.150 On-site storage, collection and transportation standards.

Solid waste including truck hulks, vehicle parts, metals, plastics, tires, and other items are scattered on the ground surface over much of the property. This condition of the property has been witnessed going back to 2001.

12.16.080 Unlawful to dump or deposit solid waste without a permit.

Solid waste has been pushed over the bank that leads to the Nookachamps Creek buffer.

The continuance of the above violations will result in the issuance of a daily civil penalty of $1000.00 per day the property remains out of compliance. The penalties will be held at this time pending compliance with the following correction schedule:

1) **Immediately:**
   - **Cease all accumulation of solid waste, including vehicle hulks, on the property.**
   - **Cease all activity that moves any material over the bank to the creek buffer.**
   - **Move the waste oil collection drum and batteries into the building. Stop any releases of oil or other hazardous substances to the ground.**

2) **By May 3, 2008 (30 days):**
   - **Have all vehicle fluids and other hazardous fluids and batteries stored in leak proof closed containers, on an impervious surface under cover. Contact the Skagit County Small Quantity Generator Program at 424-3873 if you need information on proper disposal of these materials.**
   - **Remove the solid waste that has been pushed over the bank. Dispose of the waste at a permitted solid waste facility and provide receipts to the Health Department.**
   - **Provide a plan for the clean up of contaminated soil on the property. Since the property is a ranked hazardous site I strongly recommend that you enter the Voluntary Clean Up Program through the Department of Ecology.**

3) **By July 3, 2008 (90 days):**
   - **Remove all loose scattered solid waste (including recyclable material) from property to licensed transfer station and/or recycling facility. Proved Health Department with receipts of disposal. Vehicle parts intended for use should be stored in the building where they will not cause environmental contamination.**

4) **By September 3, 2008 (150 days):**
   - **Remove in-operable unlicensed vehicles and vehicle hulks from property to a licensed recycling facility. Matt Kaufman from Health Department can assist with vehicle titles to facilitate this process.**
   - **Be in continued compliance with solid waste handling and storage on property.**
   - **Complete clean up of contaminated soil on property as per plan or as specified by the Department of Ecology Voluntary Clean Up site manager.**

Be aware that this correction schedule only applies to solid waste code violations. The Department of Planning and Development Services has also inspected the property related to critical area and land use issues. Any enforcement action related to their inspection will be handled separately.

Sections of Skagit County Code 12.16 applicable to this notice are attached, including 12.16.460 Hearings and appeals. If you are aggrieved by this notice you may request a hearing before the Health Officer. To request a hearing you must complete and submit a Request for Hearing form (supplied on request) to the Health Department within 10 working days. Please contact me at 360-419-3404 if you need further clarification of this notice. I look forward to seeing your progress on these issues. Thank you.

Notice issued by:

Polly Dubbel
Environmental Health Specialist

Attach: 12.16 sections

cc: Elaine Pitman, PDS

SKAGIT COUNTY PUBLIC HEALTH SITE INVESTIGATION FORM

Date 2/7/08 **Time** 1120 **Location** Glenn's Diesel - Big Rock

Parties Present

Polly Dubbel
Matt Kaufman

Representing

Glenn McGough - renter/business owner
Parcel P24750 ~~14779~~ 14808 SR9

Reason for visit Complaints by PDS, HD of solid waste pushing soil/solid waste over creek bank contamination issues?

Observations

Various accumulations of metals, debris, Truck hulks throughout property. Churn sump in several puddles over gravel/dirt. Pallet of vehicle batteries out in open uncovered. Used oil 55g drum out in open - closed + on asphalt but not on westside of building soil mixed w/ solid waste (paper, plastic, foam, cable, tires, etc) has been pushed down bank in creek as pic below. Told Glenn that would need to be cleaned up. Instructed Glenn move batteries + oil drum inside bldg. Glenn not doing any truck washing. Told Glenn will discuss w/ PDS + get back to him.

Photo		Description
1.	☒	photos 1-5 from around yard, plus
2.	☒	last 5 from behind Big Rock Grocery -
3.	☒	found dirt/gravel/solid waste (incidental
4.	☒	trash) pushed over bank to creek (see also)

Samples ☐ Yes ☒ No **If yes, complete page 2**

2002 Site Hazard Assessment (Skagit Health Department)

WORKSHEET 1
SUMMARY SCORE SHEET

Site Name/Location (City, County, Section/Township/Range, TCP ID):

Glenn's Diesel
14779 State Route 9
Skagit County Parcel 24750
SE ¼ SW ¼ Section 14, Township 34 North, Range 4 East
Latitude 48 25 50, Longitude 122 15 43 DMS,
FSID: 26541964

Owner: Georgia Schopf
1207 Jameson
Sedro Woolley, WA 98284

Contact: Glenn McGoff
14779 State Route 9
Mt. Vernon, WA 98273

Site ranked/scored for February 26, 2002 Site Register by Polly Dubbel, Skagit County Health Department

1. Site Description/History

Glenn's Diesel is a diesel truck repair shop located just to the west of the Nookachamps River near the intersection of College Way and State Route 9 in Skagit County. The site has been leased by Glenn McGoff for approximately 17 years and is reported to have been an auto repair business for 15 years prior to that. The business occupies the northeastern portion of Skagit County Parcel P24750. The remainder of the parcel is forested with one single family residence near the center of the parcel. The Nookachamps Creek runs along the eastern portion of the parcel. The area of the repair business is level land that drops steeply directly behind the repair shop to an old railroad grade. The bank is approximately 20 feet high. There is then another smaller rise of land between the old railroad grade and the river. Surface drainage from the repair business would tend to flow down the bank and then to the northeast down to the creek. The business area of the property consists of a large metal shop building with a concrete floor and five work bays. The floor is intact; there are no below ground tanks or hydraulic hoists. There is a waste oil collection drum in the building and a parts cleaning station that uses standard cleaning solvent in a closed loop system.

In front of the building, to the west, an asphalt apron extends approximately 15 feet for the length of the building. At the south end of this apron trucks are pressure washed with cold water. Wash down from this activity would extend onto unpaved gravel parking area. The remainder of the business area is gravel parking over soil. Approximately 20 large diesel trucks are parked around the gravel area interspersed with piles of metal objects and tires. At the rear of the south side of the building a 500 gallon above ground storage tank for used oil is located. This tank was used in the past for all used oil storage and currently may still be used when the drums are full. The tank sits on bare ground and has heavy staining on both sides. The tank is not covered and has no secondary containment. Immediately adjacent to Glenn's Diesel to the northwest is the Big Rock Grocery and Gas Station, under different ownership. Glenn's Diesel is not served by any water system. Rain water is collected for truck washing and they use a port-a-potty for sanitation. The Big Rock Grocery is served by Skagit PUD. There are two small public water systems relying on groundwater potentially down-gradient of the site.

The first complaint on this site was received by Ecology in March 1998. An anonymous caller stated that the shop degreased engines and the water would run off to the east to grass and gravel leading to the ground being black in this area. The caller also stated that un-emptied diesel tanks and parts were scattered throughout the yard. Ecology performed site visits in May and July of 1998 and January of 1999. Soil and pavement staining was noted during these visits. There were waste oil above ground storage tanks at the rear of the building and batteries and drums stored outside. A report noted problems due to poor management practices. Glenn's Diesel was placed on Ecology's list of confirmed and suspected contaminated sites in 1999.

Britt Pfaff and Polly Dubbel from Skagit County Health Department conducted a site visit on December 3, 2001. The description in the first paragraph is based on this site visit. Glenn McGoff, operator of Glenn's Diesel was present during the

site visit. Glenn was not aware that he had any outstanding issues with Ecology or aware of any contamination issues at the site. He stated that the trucks parked around the property should not have any fluids in them, in fact most were empty shells. He has his waste oil drum removed by a company on a regular basis (possibly Vintage Oil). The concrete floor of the building and the asphalt apron did have staining. Fresh gravel was on the surface of the unpaved area and no significant staining was seen here.

Britt Pfaff and Polly Dubbel conducted sampling at the site on December 18, 2001. Soil samples were taken from 5 locations. Samples were analyzed at Anatek Labs of Moscow, Idaho for NWTPH – Dx, PAH (method 8270), and Total Metals (method 6020). A copy of sample results is attached and summarized in the table below. This sample event indicated that soils in the truck wash area and used oil tank area have been impacted by contamination. Refer to attached map for approximate sample locations.

Special Considerations

Carcinogenic PAH and Lead toxicities are used in the ranking of the site to provide for a conservative evaluation of the site risk. The sample results for these parameters from the very limited SHA soil sampling were very close to the Method A Unresticted Land Use clean-up values.

Route Scores

Surface Water/Human Health:	10.4	Surface Water/Environment:	27.6
Air/Human Health:	6.9	Air/Environmental:	25.3
Ground Water/Human Health	26.9		
		Overall Rank	**3**


Nookachamps Creek
N
S05
S04
S03
S01
S02
Big Rock Grocery
College Way
Glenn's Diesel
State Route 9

SUMMARY OF SAMPLE DATA – GLENN'S DIESEL DECEMBER 18, 2001*

ID	LOCATION	MATRIX	DEPTH	NWTPH-Dx mg/kg	PAH mg/kg	METALS mg/kg
S01	TRUCK WASH AREA	SOIL	8-12"	Lube Oil **6970**	Chrysene 0.07 Phenanthrene 0.06 Pyrene 0.08	Arsenic 6.6 Barium 171 **Cadmium 7.7** Chromium 52.2 **Lead 266** Selenium 0.803
S02	SE ASPHALT PAD	SOIL	12"	Lube Oil 384	ND	Arsenic 5.1 Barium 35.5 Chromium 51.4 Lead 20.0 Selemium 1.3
S03	WEST PROPERTY BOUNDARY	SOIL	6"	ND	ND	Arsenic 6.2 Barium 113 Chromium 59.8 Lead 9.2 Mercury 0.06 Selenium 1.0
S04	WEST SIDE USED OIL TANK	SOIL	12"	Diesel 67.5 Lube Oil 393	Anthracene 0.06 Benzo(k)fluoroanthene 0.06 Benzo(b)fluoroanthene 0.05 Benzo(a)anthracene 0.11 Benzo(a)pyrene 0.09 Chrysene 0.10 Fluoranthene 0.17 Phenanthrene 0.25 Pyrene 0.18	Arsenic 7.2 Barium 48.3 Chromium 38.6 Lead 36.0 Selemium 1.2
S05	SOUTH SIDE USED OIL TANK	SOIL	2"	Diesel **2110** Lube Oil **122,000.0**	Acenaphthene 0.22 Anthracene 0.11 Benzo(b)fluoranthene 0.08 Fluoranthene 0.06 Pyrene 0.39	Arsenic 3.2 Barium 51.0 Cadmium 3.6 Chromium 33.9 Lead 58.9 Selenium 0.9

*ND indicates all parameters for the analysis were not detected, where parameters detected only those detected are listed.

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

List those substances to be considered for scoring: Source: 1,3
Heavy oil, Carinogenic PAHs, Lead, Cadmium

Explain basis for choice of substance(s) to be used in scoring.
Substances measured in surface soil above MTCA method A unrestricted land use standards.

List those management units to be considered for scoring:
Contaminated surface soil.

Explain basis for choice of unit to be used in scoring.
Documented surface soil contamination.

2. AIR ROUTE

List those substances to be considered for scoring: Source: 1,3
Lead, Cadmium

Explain basis for choice of substances to be used in scoring.
Substances measured in surface soil above MTCA Method A Cleanup unrestricted land use standards

List those management units to be considered for scoring.
Contaminated surface soil.

Explain basis for choice of unit to be used in scoring.
Documented surface soil contamination.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Source: 1,3
Heavy oil, Carcinogenic PAHs, Lead, Cadmium

Explain basis for choice of substance(s) to be used in scoring.
Substances measured in soil above MTCA Method A standards for unrestricted land use.

List those management units to be considered for scoring:
Contaminated soil.

Explain basis for choice of unit to be used in scoring.
Documented soil contamination

WORKSHEET 4

SURFACE WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

	Drinking Water Standard (ug/l)	Val.	Acute Toxicity (mg/kg-bw)	Val.	Chronic Toxicity (mg/kg/day)	Val.	Carcino-genicity WOE	PF*	Val.
1. Heavy Oil	X	X	X	X	0.03	1	X	X	X
2. PAHs	0.2	10	50(rat)	10	X	X	B2	12	7
3. Lead	5	8	X	X	X	X	B2	X	X
4. Cadmium	5	8	225	5	0.0005	5	X	X	X

*Potency Factor

Source: 1,3.4
Highest Value: 10 (Max.=10)

+2 Bonus Points? +2
Final Toxicity Value 12 (Max.=12)

1.2 Environmental Toxicity

(X) Freshwater
( ) Marine

Substance	Acute Water Quality Criteria (ug/l)	Value	Non-human Mammalian Acute Toxicity (mg/kg)	Value
1. Heavy Oil	X	X	X	X
2. PAHs	X	X	50	10
3. Lead	82	6		
4. Cadmium	3.9	8		

Source: 2,3,4,6,7 Value: 10 (Max.=10)

1.3 Substance Quantity: quantity unknown
Explain basis: unknown, default to 1

Source: 1,2,3 **Value: 1** (Max.=10)

WORKSHEET 4 (CONTINUED)
SURFACE WATER ROUTE

2.0 MIGRATION POTENTIAL

2.1 Containment No containment — Source: 1,3 — **Value: 4** (Max.=10)
Explain basis: Contaminated soil present at surface, indirect run-off control

2.2 Surface Soil Permeability: Gravelly-loam — Source: 3,11 — **Value: 1** (Max.=7)

2.3 Total Annual Precipitation: 45.2 inches — Source: 3,8 — **Value: 3** (Max.=5)

2.4 Max. 2-Yr/24-hour Precipitation: 1-2 inches — Source: 3 — **Value: 2** (Max.=5)

2.5 Flood Plain: Not in flood plain — Source: 3,12 — **Value: 0** (Max.=2)

2.6 Terrain Slope: 5% — Source: 3,9 — **Value: 2** (Max.=5)

3.0 TARGETS

3.1 Distance to Surface Water: 173 feet — Source: 3,13 — **Value: 10** (Max.=10)

3.2 Population Served within 2 miles (See WARM Scoring Manual Regarding Direction): pop.=0 = 0 — Source: 3,7,5 — **Value: 0** (Max.=75)

3.3 Area Irrigated within 2 miles 0.75√no. acres =
(Refer to note in 3.2.): 0.75√290=13 — Source: 3,5 — **Value: 13** (Max.=30)

3.4 Distance to Nearest Fishery Resource: Nookachamps Creek — Source: 3,13,10 — **Value: 12** (Max.=12)

3.5 Distance to, and Name(s) of, Nearest Sensitive Environment(s) Nookachamps Creek — Source: 3,13,10 — **Value: 12** (Max.=12)

4.0 RELEASE

Explain basis for scoring a release to surface water: No documented release — Source: 1,2,3 — **Value: 0** (Max.=5)

WORKSHEET 5
AIR ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction (WARM Scoring Manual) - Please review before scoring

1.2 Human Toxicity

Substances	Air Standard (ug/m^3)	Val.	Acute Toxicity (mg/m^3)	Val.	Chronic Toxicity (mg/kg/day)	Val.	Carcino-genicity WOE	PF*	Val.
1. Lead	0.5	10	X	X	X	X	B2	X	X
2. Cadmium	0.00056	10	25	10	X	X	B1	6.1	6

*Potency Factor

Source: 1,3,4
Highest Value: 10 (Max.=10)

+2 Bonus Points? +2
Final Toxicity Value: 12 (Max.=12)

1.3 Mobility (Use numbers to refer to above listed substances)

1.3.1 Gaseous Mobility

Henry's Law: 1= 2= 3= 4= 5=

Source:
Value: (Max.=4)

1.3.2 Particulate Mobility

Soil type: silt loam
Erodibility: 47
Climatic Factor: 1 – 10

Source: 3,4
Value: 1 (Max.=4)

1.4 Highest Human Health Toxicity/Mobility Matrix Value (from Table A-7) equals

Final Matrix Value: 6 (Max.=24)

1.5 Environmental Toxicity/Mobility

Source: 3,4

Substance	Non-human Mammalian Inhal. Toxicity (mg/m^3)	Acute Value	Particulate Mobility	(Table A-7) Value	**Matrix Value**
1. Lead	X	X	X	X	
2. Cadmium	25	10	1	1	6

Highest Environmental Toxicity/Mobility Matrix Value
(From Table A-7) equals **Final Matrix Value: 5** (Max.=24)

WORKSHEET 5 (CONTINUED)
AIR ROUTE

1.6 Substance Quantity: Unknown Source: 1,2,3 **Value: 1** (Max.=10)
Explain basis: quantity unknown, use default of 1

2.0 MIGRATION POTENTIAL

2.1 Containment: None demonstrated, spills to surface Source: 1,2,3 **Value: 10** (Max.=10)

3.0 TARGETS

3.1 Nearest Population: businesses, homes within 1000 feet Source: 3,13 **Value: 10** (Max.=10)

3.2 Distance to, and Name(s) of, Nearest Sensitive Environment(s) wetlands 1100 feet Source: 3,10,13 **Value: 6** (Max.=7)

3.3 Population within 0.5 miles: 21houses/buildings within ½ mile = √63 people Source: 3,13 **Value: 8** (Max.=75)

4.0 RELEASE

Explain basis for scoring a release to air: No documented release Source: 1,2,3, **Value: 0** (Max.=5)

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

	Drinking Water Standard (ug/l)	Val.	Acute Toxicity (mg/kg-bw)	Val.	Chronic Toxicity (mg/kg/day)	Val.	Carcino-genicity WOE	PF*	Val.
1. Heavy Oil	X	X	X	X	X	1	X	X	X
2. PAHs	0.2	10	50	10	X	X	B2	12	7
3. Lead	5	8	X	X	X	X	B2	X	X
4. Cadmium	5	8	225	5	0.0005	5	X	X	X

Source: 1,3

*Potency Factor — Highest Value: 10 (Max.=10)

+2 Bonus Points? +2

Final Toxicity Value 12 (Max.=12)

1.2 Mobility (Use numbers to refer to above listed substances)
Cations/Anions: 1= ; 2= ; 3=0.1-1.0 (2) ; 4=>1 (3) ; 5= ; 6= . Source: 3,4 **Value: 3** (Max.=3)

OR
Solubility(mg/l): 1=0 ; 2=0 ; 3= , 4= ; 5= ; 6= .

1.3 Substance Quantity: Unknown Source: 1,2,3 **Value: 1** (Max.=10)
Explain basis: quantity unknown, default to 1

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1,2,3 **Value: 10** (Max.=10)
Explain basis: contaminated soil

2.2 Net Precipitation: 24.8 inches Source: 3,8 **Value: 3** (Max.=5)

2.3 Subsurface Hydraulic Conductivity: Clay, clay and gravel Source: 3,6 **Value: 1** (Max.=4)

2.4 Vertical Depth to Ground Water: well on site drilled to 400', other wells 1/3 miles north 60' Source: 3,6 **Value: 4** (Max.=8)

WORKSHEET 6 (CONTINUED)
GROUND WATER ROUTE

3.0 TARGETS

3.1 Ground Water Usage: public supply, alternative source available Source: 3,5,6 **Value: 4** (Max.=10)

3.2 Distance to Nearest Drinking Water Well: 600-700 ft Source: 3,6,13 **Value: 4** (Max.=5)

3.3 Population Served within 2 Miles: √235=15 Source: 3,5,6,7 **Value: 15** (Max.=50)

3.4 Area Irrigated by (Groundwater) Wells within 2 miles: 0.75√42= 5 Source: 3,5 **Value: 5** (Max.=100)

4.0 RELEASE

Explain basis for scoring a release to ground water: no documented release Source: 1,2,3 **Value: 0** (Max.=5)

SOURCES USED IN SCORING

1. Skagit County Health Department, Site Hazard Assessment, Field Notes and Sample Results for Glenn's Diesel, December, 20001.
2. Washington Department of Ecology, Initial Investigation Reports and Information, April 1998 – September 1999.
3. Washington Department of Ecology, WARM Scoring Manual, April, 1992.
4. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January, 1992.
5. Washington Department of Ecology, Water Rights Information System (WRIS), 1997.
6. Washington Department of Ecology, Well Logs
7. Washing Department of Health Public Water Supply Data.
8. National Weather Service, Washington Climate Data.
9. USGS 7.5 minute Topographical Quadrangles – Mount Vernon, Washington.
10. Skagit County Planning and Permit Center, Critical Areas Maps.
11. United States Department of Agriculture, Soil Conservation Service, Soil Survey of Skagit County Area, Washington, September 1989.
12. Skagit County GIS and Mapping, FEMA Data, 100 Year Flood Plain Shape File, Skagit County Skagit View Version 1.03.02, 2001.
13. Skagit County GIS and Mapping Department, Skagit County Digital Ortho Photographs, 2001, Skagit County Skagit View Version 1.03.02, 2001.

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

Repair garage

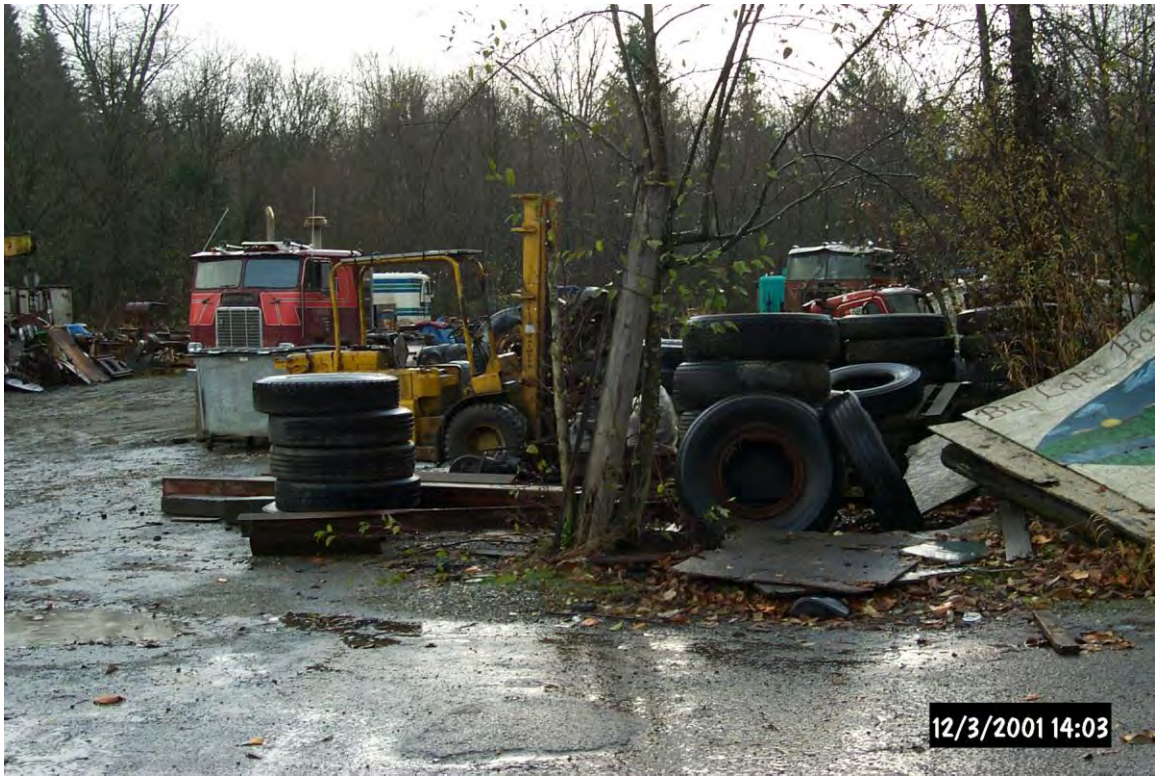
Repair garage and misc. equipment to the south

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

Trucks, etc to north of repair garage

Big Rock Grocery and Gas Station adjacent to Glenn's Diesel to north

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01



Entrance to Glenn's Diesel view to south

Misc. equipment, metal objects to south of repair garage

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

South end of gravel parking lot

South end of gravel parking lot+

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

Perimeter of gravel parking, vehicles into trees

North side of repair garage, junk vehicles

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

View from railroad grade west up bank to rear of repair garage

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

Soil sample 2 location, truck wash area (soil sample 1 location just to southeast)

Soil sample 3 location, north of garage

Glenn's Diesel Site FSID 26541964
Photos from Skagit County Health Department Site Hazard Assessment 12/3/01

Used oil tank to southeast of garage, soil sample location 4

Used oil tank area, soil sample 5 location

2008 Notice of Violations (Skagit Health Department)

PETER BROWNING, DIRECTOR
HOWARD LEIBRAND, HEALTH OFFICER

700 SOUTH SECOND STREET #301, MOUNT VERNON, WA 98273, TEL (360) 336-9380 FAX (360) 336-9401

CERTIFIED MAIL
Return receipt requested

NOTICE TO CORRECT VIOLATIONS

March 31, 2008

Gregory and Kathy Johnston
P.O. Box 876733
Wasilla, AK 99687

Glenn McGoff
14823 State Route 9
Mt. Vernon, WA 98273

Copy hand delivered by Patty Mulder 4/29/08

RE: Violations of Skagit County Code 12.16, Solid Waste Handling and Facilities at 14823 State Route 9, Mount Vernon, WA, Parcel P24750

Dear Mr. and Mrs. Johnston and Mr. McGoff:

The Skagit County Public Health Department (Health Department) received a complaint on property you own and occupy, Skagit County Parcel P24750, Glenn's Diesel. The complaint concerned general conditions at the site and the disposal of solid waste over a bank to the Nooksack River.

Site investigations
On February 7, 2008 Matt Kaufman and I performed a site visit. Glenn McGoff was present and walked the property with us. The property is used as a diesel truck maintenance yard. Numerous truck hulks were present throughout the property. General solid waste accumulation is scattered all over the ground in the form of metals and debris from the business. A pallet of vehicle batteries was present out in the open. A 55 gallon drum filled with used oil was on asphalt pavement but not under cover of a roof. Puddles present on the ground surface in the dirt parking/drive area had sheen indicative of petroleum contamination. To the east of the garage building soil mixed with solid waste had been pushed down the bank toward the buffer to the Nookachamps Creek. Metal objects, tires, pallets, plastics and other debris were visible mixed with the dirt.

This property was inspected in 1998, 1999, and 2001 for hazardous waste handling and contamination issues. It is listed on the Washington State Hazardous Sites list as a contaminated property. We have no evidence that any clean up of contaminated soils has occurred on the property. There are still hazardous waste storage issues and visible contamination on the ground surface.

Site violations
The chronic improper use of the property for junk vehicle storage and dismantling, solid waste dumping, and hazardous substance storage and release has resulted in the following violations of Skagit County Code 12.16, Solid Waste Handling and Facilities. Specific sections of the code are attached to this notice:

12.16.210 Moderate risk waste, used oil, and hazardous substance handling.

Used oil drum and vehicle batteries are present on the property not protected from weather or spills. Oil/fluids have been released to the ground surface.

12.16.150 On-site storage, collection and transportation standards.

Solid waste including truck hulks, vehicle parts, metals, plastics, tires, and other items are scattered on the ground surface over much of the property. This condition of the property has been witnessed going back to 2001.

12.16.080 Unlawful to dump or deposit solid waste without a permit.

Solid waste has been pushed over the bank that leads to the Nookachamps Creek buffer.

The continuance of the above violations will result in the issuance of a daily civil penalty of $1000.00 per day the property remains out of compliance. The penalties will be held at this time pending compliance with the following correction schedule:

1) **Immediately:**
   - **Cease all accumulation of solid waste, including vehicle hulks, on the property.**
   - **Cease all activity that moves any material over the bank to the creek buffer.**
   - **Move the waste oil collection drum and batteries into the building. Stop any releases of oil or other hazardous substances to the ground.**

2) **By May 3, 2008 (30 days):**
   - **Have all vehicle fluids and other hazardous fluids and batteries stored in leak proof closed containers, on an impervious surface under cover. Contact the Skagit County Small Quantity Generator Program at 424-3873 if you need information on proper disposal of these materials.**
   - **Remove the solid waste that has been pushed over the bank. Dispose of the waste at a permitted solid waste facility and provide receipts to the Health Department.**
   - **Provide a plan for the clean up of contaminated soil on the property. Since the property is a ranked hazardous site I strongly recommend that you enter the Voluntary Clean Up Program through the Department of Ecology.**

3) **By July 3, 2008 (90 days):**
   - **Remove all loose scattered solid waste (including recyclable material) from property to licensed transfer station and/or recycling facility. Proved Health Department with receipts of disposal. Vehicle parts intended for use should be stored in the building where they will not cause environmental contamination.**

4) **By September 3, 2008 (150 days):**
   - **Remove in-operable unlicensed vehicles and vehicle hulks from property to a licensed recycling facility. Matt Kaufman from Health Department can assist with vehicle titles to facilitate this process.**
   - **Be in continued compliance with solid waste handling and storage on property.**
   - **Complete clean up of contaminated soil on property as per plan or as specified by the Department of Ecology Voluntary Clean Up site manager.**

Be aware that this correction schedule only applies to solid waste code violations. The Department of Planning and Development Services has also inspected the property related to critical area and land use issues. Any enforcement action related to their inspection will be handled separately.

Sections of Skagit County Code 12.16 applicable to this notice are attached, including 12.16.460 Hearings and appeals. If you are aggrieved by this notice you may request a hearing before the Health Officer. To request a hearing you must complete and submit a Request for Hearing form (supplied on request) to the Health Department within 10 working days. Please contact me at 360-419-3404 if you need further clarification of this notice. I look forward to seeing your progress on these issues. Thank you.

Notice issued by:

Polly Dubbel
Environmental Health Specialist

Attach: 12.16 sections

cc: Elaine Pitman, PDS

SKAGIT COUNTY PUBLIC HEALTH SITE INVESTIGATION FORM

Date 2/7/08 **Time** 1120 **Location** Glenn's Diesel - Big Rock

Parties Present

Polly Dubbel
Matt Kaufman

Representing

Glenn McGough - renter/business owner
Parcel P24750 ~~14779~~ 14808 SR9

Reason for visit Complaints by PDS, HD of solid waste pushing soil/solid waste over creek bank contamination issues?

Observations

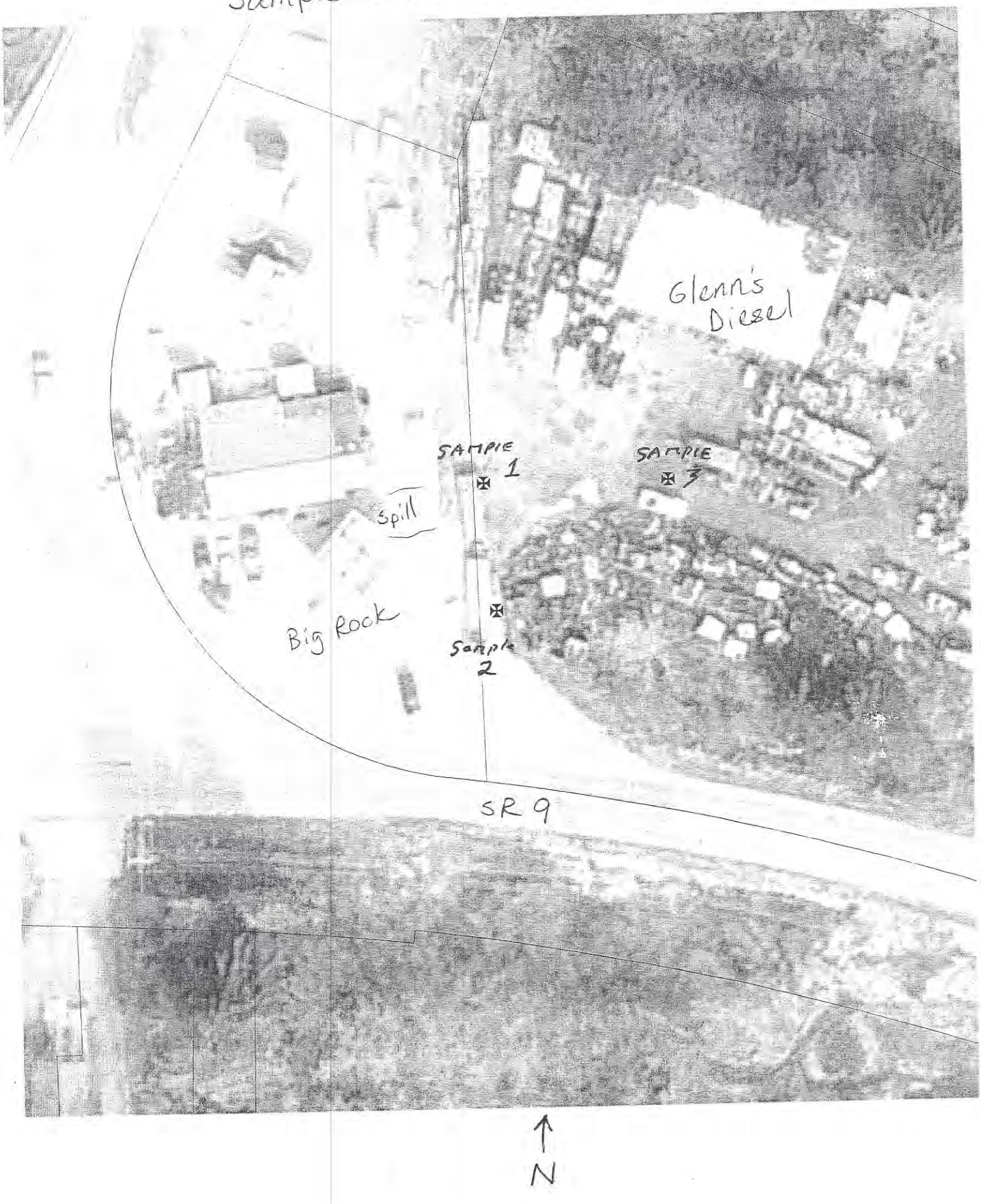
Various accumulations of metals, debris, Truck hulks throughout property. Churn sump in several puddles over gravel/dirt. Pallet of vehicle batteries out in open uncovered. Used oil 55g drum out in open - closed + on asphalt but not on westside of building soil mixed w/ solid waste (paper, plastic, foam, cable, tires, etc) has been pushed down bank in creek as pic below. Told Glenn that would need to be cleaned up. Instructed Glenn move batteries + oil drum inside bldg. Glenn not doing any truck washing. Told Glenn will discuss w/ PDS + get back to him.

Photo		Description
1.	☒	photos 1-5 from around yard, plus
2.	☒	last 5 from behind Big Rock Grocery -
3.	☒	found dirt/gravel/solid waste (incidental
4.	☒	trash) pushed over bank to creek (see also)

Samples ☐ Yes ☒ No **If yes, complete page 2**

2008 Spill response sampling (Skagit Health Department)

Sample Locations ERTS 609697



EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

December 2, 2008

Mr. Matt Kaufman
Skagit Co Health Dept
700 S 2nd #301
Mount Vernon, WA 98273

RE: 08-16393 - Big Rock

Dear Mr. Matt Kaufman,

Your project: Big Rock, was received on Monday November 17, 2008.
The following comments are reported for your project:

NWTPH-HCIDW: The oily liquid layer of sample 34551 (3 Liquid) was analyzed to identify hydrocarbons. The water portion was not analyzed.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Pat Miller for LJH

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

EDGE ANALYTICAL LABORATORIES

Burlington WA — Corporate Office | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA — Microbiology | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

Hydrocarbon Data Report

Client Name: Skagit Co Health Dept
700 S 2nd #301
Mount Vernon, WA 98273

Reference Number: 08-16393
Project: Big Rock
Report Date: 12/2/08
Date Received: 11/17/08
Peer Review: PM

Sample Description: 1 - Soil
Lab Number: 34549
Date 11/24/08

Sample Date: 11/17/08
Collected By: Matt Kaufman
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	>100		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	Est. Conc. : 480 mg/Kg
DIESEL (C12 - C24)	ND		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	
HEAVY HYDROCARBONS (>C24)	>100		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	Est. Conc.: 163 mg/Kg

Sample Description: 2 - Soil
Lab Number: 34550
Date 11/24/08

Sample Date: 11/17/08
Collected By: Matt Kaufman
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	ND		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	
DIESEL (C12 - C24)	ND		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	
HEAVY HYDROCARBONS (>C24)	>100		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_08111	Est. Conc.: 783 mg/Kg

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.
Form: cHCID.rpt

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

Hydrocarbon Data Report

Client Name: Skagit Co Health Dept
700 S 2nd #301
Mount Vernon, WA 98273

Reference Number: 08-16393
Project: Big Rock
Report Date: 12/1/08
Date Received: 11/17/08
Peer Review: DM

Sample Description: 3 - Liquid
Lab Number: 34551
Date 11/20/08

Sample Date: 11/17/08
Collected By: Matt Kaufman
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	ND		1	1.0	0.25	0.1	mg/L	NWTPH-HCID/3510C	HCIDW_08111	
DIESEL (C12 - C24)	>0.2		1	0.5	0.2	0.1	mg/L	NWTPH-HCID/3510C	HCIDW_08111	
HEAVY HYDROCARBONS (>C24)	>0.2		1	0.5	0.2	0.1	mg/L	NWTPH-HCID/3510C	HCIDW_08111	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.
Form: cHCID.rpt

ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-16393
Report Date: 12/02/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
HCIDS_081119	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-HCID		12.5000(		MB	
	GASOLINE (C8 - C12)	ND		mg/Kg	NWTPH-HCID		5.00000			
	HEAVY HYDROCARBONS (>C24)	ND		mg/Kg	NWTPH-HCID		25.0000(			
	O-TERPHENYL	42		%	NWTPH-HCID		0.00000	LS		
HCIDW_081119	DIESEL (C12 - C24)	ND		mg/L	NWTPH-HCID		0.15000		MB	
	GASOLINE (C8 - C12)	ND		mg/L	NWTPH-HCID		0.06000			
	HEAVY HYDROCARBONS (>C24)	ND		mg/L	NWTPH-HCID		0.15000			
	O-TERPHENYL (Surr)	106		%	NWTPH-HCID					

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

QUALITY CONTROL REPORT

Duplicate and Matrix Spike/Matrix Spike Duplicate Report

Reference Number: 08-16393

Report Date: 12/2/2008

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier		Comments
HCIDS_081119										
	34550	HEAVY HYDROCARBONS (>C24)	>100	>100	mg/Kg	**NA**	0-45		DUP	Est. Conc.: 772 mg/Kg
	34550	HEAVY HYDROCARBONS (>C24)	>100	>100	mg/Kg	**NA**	0-50		DUP	Est. Conc.: 772 mg/Kg
	34550	O-TERPHENYL	54	54	%	**0.0**	0-50		DUP	
	34550	O-TERPHENYL (Surr)	54	54	%	**0.0**	0-30		DUP	
TS_081121										
	35077	TOTAL SOLIDS FOR CALCULATION	89.8	88.8	%	**1.1**	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

ANALYTICAL LABORATORIES

Qualifier Definitions

Reference Number: 08-16393
Report Date: 12/02/08

Qualifier	Definition
LS	Data suspect due to low surrogate recovery.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 08-16393
Report Date: 12/02/08

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
HCIDS_081119 34549	O-TERPHENYL	58		%	NWTPH-HCID	
HCIDS_081119 34550	O-TERPHENYL	54		%	NWTPH-HCID	
HCIDW_081119 34551	O-TERPHENYL (Surr)	NA		%	NWTPH-HCID	Acceptance Limits: 50-150%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Alturas Analytics, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-3400 FAX 882-9246

Alturas Log-In #

Company Name: SKAGIT County Public Health Dept	Project Manager: MATT KAUFFMAN
Address: 700 So 2nd ST #301	Sampler Signature: MATT KAUFFMAN
City: Mount Vernon State: WA Zip: 98273	Project Name & # : Big Rock
Tel: 360-336-9380 Fax: 360 336 9401	Purchase Order # :
E-mail: MATTK@CO.SKAGIT.WA.US	Shipped Via/Other:

Turn Around Time & Reporting

☐ Next Day* ☐ 2nd Day* ☐ Normal — Results needed by: / / — ☐ Phone ☐ Mail ☐ Fax ☐ E-mail

*Please call to verify rush charges before submitting samples

Provide Sample Description

Wipe samples collected in the premises listed.

List Analyses Requested

Note Special Instructions/Comments

** Please indicate units to be reported **

(Typically results are reported down to .01 µg/100cm² or .01µg/ft²)

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	Total Area Swiped ** (cm² or ft²)	Methamphetamine	Hydrocodone Type HCTD
	1	11/17/08 1500	S						X
	2	11/17/08 1500	S						X
	3	11/17/08 1500	LQ						X

	Signature	Printed Name	Company	Date	Time
Relinquished by		MATT KAUFFMAN	SCPHD	11/17/08	1644
Received by	Heather H.	Heather Hammerschmidt	EAL	11/17/08	1644
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe 19°

Page ____ of ____

RECEIVED
DEC 08 2008
SKAGIT COUNTY
PUBLIC HEALTH

08-16393

08-16393
34549 - 34551

Printed on: 16 July 2004 11:00:16

COMPLAINT (Brief summary of ERTS): On November 17 Glenn McGoff, occupant of neighboring property, reported that over the weekend a gasoline spill had occurred at the Big Rock Grocery. He said that the fuel had drained down onto Glenn's Diesel property, adjacent to the east.
SITE STATUS (Brief summary of site condition(s) after investigation): Soil samples show that gasoline range hydrocarbons from the spill plume are present in surface soil on the adjacent property, P24750, at levels exceeding MTCA Method A Clean Up Levels. There is no current evidence of contamination from the spill reaching soil at the Big Rock Grocery site.
Investigator: Matt Kaufman/Polly Dubbel report submitted 12/15/08

ERTS # 609697

Initial Report

External Reference #

Caller Information

	First	Last
Name	POLLY	DUBBEL
Busines Name	SKAGIT COUNTY	
Street Address		
Other Address		
City	State WA	Zip
E-mail		Confidential_FL ☐

Phone	Ext	Type
(360) 336-9380		Business

Where did it happen

	Berth		Anchorage
Location Name	BIG ROCK GROCERY		
Street Address	14779 SR 9		
Other Address			
City/Place	MOUNT VERNON	State WA	Zip
County - Region	SKAGIT	NWRO	FS ID
WIRA #			
Waterway		Type	
Latitude		Longitude	
Topo Quad 1:24:000	MOUNT VERNON		

Direction/Landmark (mile post, cross roads, township/range)

What happened

Spills Program Oil Spill? Y

Incident Date	11/17/2008	Received Date	11/21/2008 14:18
Medium	Land		
Material	Gasoline		
	Sheen Only ☐	Quantity 15	To Water
Source	Non-commercial vehicle		
	Type Vehicle		Primary ☑
Cause			
Incident Type	Oil Spill (without precursor incident)		
Activity	Fueling		
Impact			
Vessel Name			
Hull Number			

Primary Potentially Responsible Party Information

	First	Last
Name	RANDY	AUDETTE
Business Name	**BIG ROCK GROCERY**	
Street Address	14779 SR 9	
Other Address		
City	MOUNT VERNON	State WA Zip
Phone	(360) 424-7872 Ext	Type Business
E-mail		

Additional Contact Information

Name	Phone	Ext	Type

More Information

PHOTOS AVAILABLE AT:
X:\NWRO ERTS\ERTS Incident Additional Info\2008\609697

From: PollyDubbel [mailto:pollyd@co.skagit.wa.us]
Sent: Friday, November 21, 2008 2:18 PM
To: Sacayanan, Tamara L. (ECY)
Subject: ERTS referral

Tami – On November 17, 2008 Glenn McGoff of Glenn's Diesel reported a spill on the neighboring property, Big Rock Grocery. He said he saw the spill over the weekend and it appeared to be fuel from the Big Rock Grocery gas station that had drained onto his site to the south. Matt Kaufman from our department investigated on 11/17 and spoke with Big Rock Grocery owner Randy Audette. Randy said that 5-10 gallons of gasoline had spilled from a vehicle on Thursday or Friday during the rain. The fire department was called but did not do much reportedly. Randy placed kitty litter around the spill. Matt found staining on the slab by the gas pumps and staining leading to the broken asphalt surface to the south. The slab itself is sloping to the center where a drain is located. The broken asphalt to the south drains to bare ground on Glenn's Diesel property. Matt took 2 soil samples, one in the direction of drainage where there was exposed soil and one to the west of there for a background sample. There were puddles near the end of the broken asphalt that showed no sheen but a large puddle to the south in the middle of Glen's Diesel dirt parking are had a lot of oil floating on the surface. This appears to have originated from Glen's property. Matt took a water sample from the puddle. Glen's diesel is a ranked contaminated site that has had on-going issues with contamination and has never been cleaned up. Big Rock Grocery may have issues also. We have also learned that they have been regularly pressure washing their slab by the fuel pumps with petroleum contaminated water reported by Glen to be draining down onto his property. We are pending sample results for TPH from the samples Matt took. Our LSCS Ed Evanson has scheduled a site visit to Big Rock Grocery with the Ecology Tank inspector on Dec 1 to address the pressure washing and BMPs for surface water protection. The site is adjacent to Nookachamps Creek.

*** The Initial report contains only information provided to Ecology from the complainant.

ERTS # 609697

Referral

Referral # 118039

Referral Method
- ○ E-mail ERTS number
- ◉ E-mail attachment
- ○ Print
- ○ Telephone

Person Referred to WIETFELD, JOHN — Primary ☐
Phone (425) 649-7282 Fax (425) 649-7098
E-mail JWIE461@ECY.WA.GOV
Program/Organization TOXICS CLEANUP
Address 3190 160TH AVE SE
City BELLEVUE WA 98008-
Region/Location NWRO
Referral Date 11/24/2008

Referral # 118040

Referral Method
- ○ E-mail ERTS number
- ◉ E-mail attachment
- ○ Print
- ○ Telephone

Person Referred to ANDERSEN, CARL — Primary ☐
Phone (360) 715-5214 Fax (360) 715-5225
E-mail CARA461@ECY.WA.GOV
Program/Organization SPILLS, PREVENTION, PREPAREDNESS AND RESPONSE
Address 1440 10TH ST STE 102
City BELLINGHAM WA 98229-7028
Region/Location BFO
Referral Date 11/24/2008

Referral # 118075

Referral Method
- ○ E-mail ERTS number
- ◉ E-mail attachment
- ○ Print
- ○ Telephone

Person Referred to MUSA TCP, DONNA — Primary ☐
Phone (425) 649-7136 Fax (425) 649-7098
E-mail DMUS461@ECY.WA.GOV
Program/Organization TOXICS CLEANUP
Address 3190 160th AVE SE
City Bellevue WA 98008-5452
Region/Location NWRO
Referral Date 11/24/2008

Referral # 118359

Referral Method
- ○ E-mail ERTS number
- ◉ E-mail attachment
- ○ Print
- ○ Telephone

Person Referred to SKAGIT CO PLANNING / HEALTH DEPT., POLLY DUBB — Primary ☐
Phone (360) 336-9410 Fax (360) 336-9416
E-mail pollyd@co.skagit.wa.us
Program/Organization SKAGIT COUNTY
Address 1800 Continental Place
City Mount Vernon WA 98273
Region/Location PLANNING
Referral Date 12/8/2008

*** The Initial report contains only information provided to Ecology from the complainant.

ERTS # 609697

Followup

Inspector Information

Referral # 118040
☑ Lead Inspector ANDERSEN, CARL
Program/Organization SPILLS, PREVENTION, PREPAREDNESS AND RESPONSE
* Region/Location BFO
# of Ecology Staff 1 Overtime ☐

Action

Start Date	End Date
11/17/2008	

TELEPHONE - TECHNICAL ASSISTANCE

What happened

Spills Program Oil Spill? Y

Incident Date 11/17/2008

Medium
Land

Material
Gasoline ☐ Sheen Only

Quantity	To Water	To Imperm	Recover	NRDA	Est
15	5	10	1		☐

Source Regulated? ☐
Non-commercial vehicle
Type Vehicle Primary ☑

Cause
Mechanical Failure
Type Equipment Failure Primary ☑

Incident Type
Oil Spill (without precursor incident)

Activity
Fueling

Impact

Vessel

Where did it happen

Followup #1

Berth Anchorage
Location Name BIG ROCK GROCERY
Street Address 14779 SR 9
Other Address
City/Place MOUNT VERNON State WA Zip
County SKAGIT Region NWRO FS ID
Waterway Type
WRIA #
Latitude 48.431793 Longitude 122.263495
Topo Quad 1:24,000 MOUNT VERNON
Direction/Landmark (mile post, cross roads, township/range)

Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology ☐

Primary ☑	First	Last
Name	RANDY	AUDETTE

Business Name BIG ROCK GROCERY
Street Address 14779 SR 9
Other Address
City MOUNT VERN State WA Zip
Phone (360) 424-7872 Ext Type Business
E-mail

Narrative

CALLED SKAGIT CO MATT KAUFMAN FOR MORE DETAILS AND IF OUR ASSISTANCE WAS NEEDED BASED ON WHAT HE SAW ON HIS SITE VISIT.

MATT CALLED BACK AND LEFT A MESSAGE. HE STATED THE OIL IN THE PUDDLES HAD BEEN CLEANED UP BY THE SITE OPERATOR.

WONDERING IF NOTIFICATION WAS COVERED FOR THE GASOLINE SPILL, LOCATION OF WATER WELLS FOR DRINKING AND ALSO IF WE NEED TO ADDRESS THE OIL ON THE WATER NEXT DOOR.

SPOKE WITH MATT TO SEE IF WE COULD ASSIST. MATT SAID POLLY HAD GONE OUT TO THE RESPONSE. MATT THEN WENT OUT LATER AND TOOK PICTURES. I TOLD HIM I WOULD CALL BIG ROCK AND GO OVER RESPONSE AND NOTIFICATIONS. MATT DIDN'T THINK WE WERE NEEDED TO DO ANY RESPONSE OR TALK TO THE NEIGHBORS ABOUT SPILLS AND CLEANUP. OIL NEXT DOOR MATT STATED HAD BEEN CLEANED UP.

12/2/8
CALLED BIG ROCK. LEFT MESSAGE WITH CODY FOR RANDY TO CALL. CODY SAID OIL COMPANY HAD DROPPED OFF SPILL KITS, ETC. I TOLD HIM I JUST WANTED TO GO OVER DISPOSAL, CLEANUP, NOTIFICATION, ETC. HE SAID HE WILL HAVE RANDY GIVE ME A CALL.

12/9/8
1038 CALLED RANDY BACK AS HE DID NOT RETURN MY CALL. HE STATED HE PUT OUT KITTY LITTER SWEPT UP AND HOSED DOWN THE SPILL. HAS AN O/W SEP. WATER DRAINS TO A POND. WENT OVER NOT USING THE O/W SEP FOR SPILLS. SOUNDS LIKE THE KITTY LITTER IS HANDLED CORRECTLY. HE WILL CALL IN THE FUTURE IF THEY HAVE SPILLS. HE SAID THIS WAS THE FIRST SPILL THAT THEY EVER HAD. PROVIDED HIM WITH 800 NUMBER FOR NOTIFICATIONS. HE WANTED TO KNOW HOW MUCH AND I SAID NO MINIMUM, THAT THEY SHOULD CALL 911 IF A HAZARD AND ALSO US IF MORE THAN A

ERTS # 609697

What happened

Spills Program Oil Spill? N

Latitude 48.431793 Longitude 122.263495

Incident Date 11/17/2008

Topo Quad 1:24,000 MOUNT VERNON

Direction/Landmark (mile post, cross roads, township/range)

Medium
SOIL

Material
PETROLEUM - GASOLINE

Quantity	Unit	Est
15	GALLON	☐

Source Regulated? ☐

Cause

Activity
REFUELING

Impact

Vessel

Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology ☐

Primary ☑ First Last

Name RANDY AUDETTE

Business Name BIG ROCK GROCERY

Street Address 14779 SR 9

Other Address

City MOUNT VERN State WA Zip

Phone (360) 424-7872 Ext Type Business

E-mail

Narrative

SKAGIT CO IS DOING II.

12/26/08 RECEIVED II FIELD REPORT FROM POLLY DUBBEL AT SKAGIT HEALTH.

The source of the spill was a VEHICLE whose fuel pump malfunctioned at the Big Rock Grocery. Since the adjacent (impacted) site is already listed: Glenns Diesel, this ERTS and documentation will be routed to the file for Glenn's. Also, since the Big Rock Grocery was NOT impacted from the spill, it will not be listed on the CSCSL for this incident, but this information will go into a new TCP file for the property.

NFA Big Rock Grocery

Vessel Emergency ☐

Entry Person: MUSA TCP, DONNA Entry Date 12/8/2008

Followup #4

Inspector Information

Referral # 118778

☐ Lead Inspector DUBBEL, POLLY

Program/Organization SKAGIT COUNTY HEALTH

* Region/Location HEALTH

# of Ecology Staff Overtime ☐

Where did it happen

Berth Anchorage

Location Name BIG ROCK GROCERY

Street Address 14779 SR 9

Other Address

City/Place MOUNT VERNON State WA Zip

County SKAGIT Region NWRO FS ID

Waterway Type

WRIA #

Action

	Start Date	End Date
FIELD RESPONSE - INVESTIGATION	11/17/2008	11/17/2008

*** The Initial report contains only information provided to Ecology from the complainant.

ERTS # 609697

What happened

Spills Program Oil Spill? N

Latitude 48.431793 Longitude 122.263495

Incident Date 11/17/2008

Topo Quad 1:24,000 MOUNT VERNON

Medium
SOIL

Direction/Landmark (mile post, cross roads, township/range)

Material
PETROLEUM - GASOLINE

Quantity	Unit	Est
15	GALLON	☒

Source Regulated? ☐

Cause

Activity
REFUELING

Impact

Vessel

Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology ☐

Primary ☑ First Last

Name RANDY AUDETTE

Business Name BIG ROCK GROCERY

Street Address 14779 SR 9

Other Address

City MOUNT VERN State WA Zip

Phone (360) 424-7872 Ext Type Business

E-mail

Narrative

Soil samples show that gasoline range hydrocarbons from the spill plume are present in surface soil on the adjacent property, P24750, at levels exceeding MTCA Method A Clean Up Levels. There is no current evidence of contamination from the spill reaching soil at the Big Rock Grocery Site.

See file for complete write-up from Skagit County Health.

Vessel Emergency ☐

Entry Person: MUSA TCP, DONNA Entry Date 12/30/2008

ERTS # 609697

SPLASH. THIS WAY WE CAN PROVIDE TECH ASSISTANCE IF PUMP IS NOT WORKING AND HAVE THEM TAKE IT OUT OF COMMISSION.

NFA

Vessel Emergency ☐ Entry Person: ANDERSEN, CARL Entry Date 11/24/2008

Followup #2

Inspector Information

Referral # 118039
☐ Lead Inspector GARBUSH, GAYLE
Program/Organization TOXICS CLEANUP

* Region/Location NWRO
# of Ecology Staff Overtime ☐

Where did it happen

Berth Anchorage
Location Name BIG ROCK GROCERY
Street Address 14779 SR 9
Other Address
City/Place MOUNT VERNON State WA Zip
County SKAGIT Region NWRO FS ID
Waterway Type
WRIA #
Latitude 48.431793 Longitude 122.263495
Topo Quad 1:24,000 MOUNT VERNON
Direction/Landmark (mile post, cross roads, township/range)

Action

	Start Date	End Date
REFERRAL	11/24/2008	11/24/2008

What happened

Spills Program Oil Spill? Y

Incident Date 11/17/2008

Medium
Land

Material
Gasoline ☐ Sheen Only

Quantity	To Water	To Imperm	Recover	NRDA	Est
15	5	10	1		☐

Source Regulated? ☐
Non-commercial vehicle
Type Vehicle Primary ☑

Cause
Mechanical Failure
Type Equipment Failure Primary ☑

Incident Type
Oil Spill (without precursor incident)

Activity
Fueling

Impact

Vessel

Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology ☐

Primary ☑ First Last
Name RANDY AUDETTE
Business Name BIG ROCK GROCERY
Street Address 14779 SR 9
Other Address
City MOUNT VERN State WA Zip
Phone (360) 424-7872 Ext Type Business
E-mail

Narrative

John Wietfeld said this will not be a LUST issue because it is from the pump (above ground) instead of tank/piping (underground.)
Referred to TCP II - Donna Musa.
Sending ERTS copy to UST 1321 file.

Vessel Emergency ☐ Entry Person: GARBUSH, GAYLE Entry Date 11/24/2008

Followup #3

Inspector Information

Referral # 118075
☐ Lead Inspector MUSA TCP, DONNA
Program/Organization TOXICS CLEANUP

* Region/Location NWRO
# of Ecology Staff 1 Overtime ☐

Where did it happen

Berth Anchorage
Location Name BIG ROCK GROCERY
Street Address 14779 SR 9
Other Address
City/Place MOUNT VERNON State WA Zip
County SKAGIT Region NWRO FS ID
Waterway Type
WRIA #

Action

	Start Date	End Date
REFERRAL	12/8/2008	12/26/2008

*** The Initial report contains only information provided to Ecology from the complainant.

ERTS # 609697

Referral # 118778

Referral Method

- ○ E-mail ERTS number
- ○ E-mail attachment
- ○ Print
- ◉ Telephone

Person Referred to SKAGIT CO HEALTH, POLLY DUBBEL Primary ☑

Phone (360) 336-9380 Fax (360) 336-9401

E-mail pollyd@co.skagit.wa.us

Program/Organization SKAGIT COUNTY

Address 700 South Second, Rm. 301

City Mount Vernon WA 98273

Region/Location HEALTH

Referral Date 12/8/2008

ERTS # 609697

The locations and contacts:

Big Rock Grocery
14779 SR 9
Mount Vernon, WA
Owner: Randy Audette 360-424-7872

Glenn's Diesel
Skagit County Parcel P24750
Contact Glenn McGoff 360-428-7518
Owner: Greg and Kathy Johnston
P.O.B. 876733
Wasilla, AK 99687

Always working for a safer and healthier Skagit County

Polly Dubbel
Environmental Health Specialist
Skagit County Public Health Department
360-336-9380

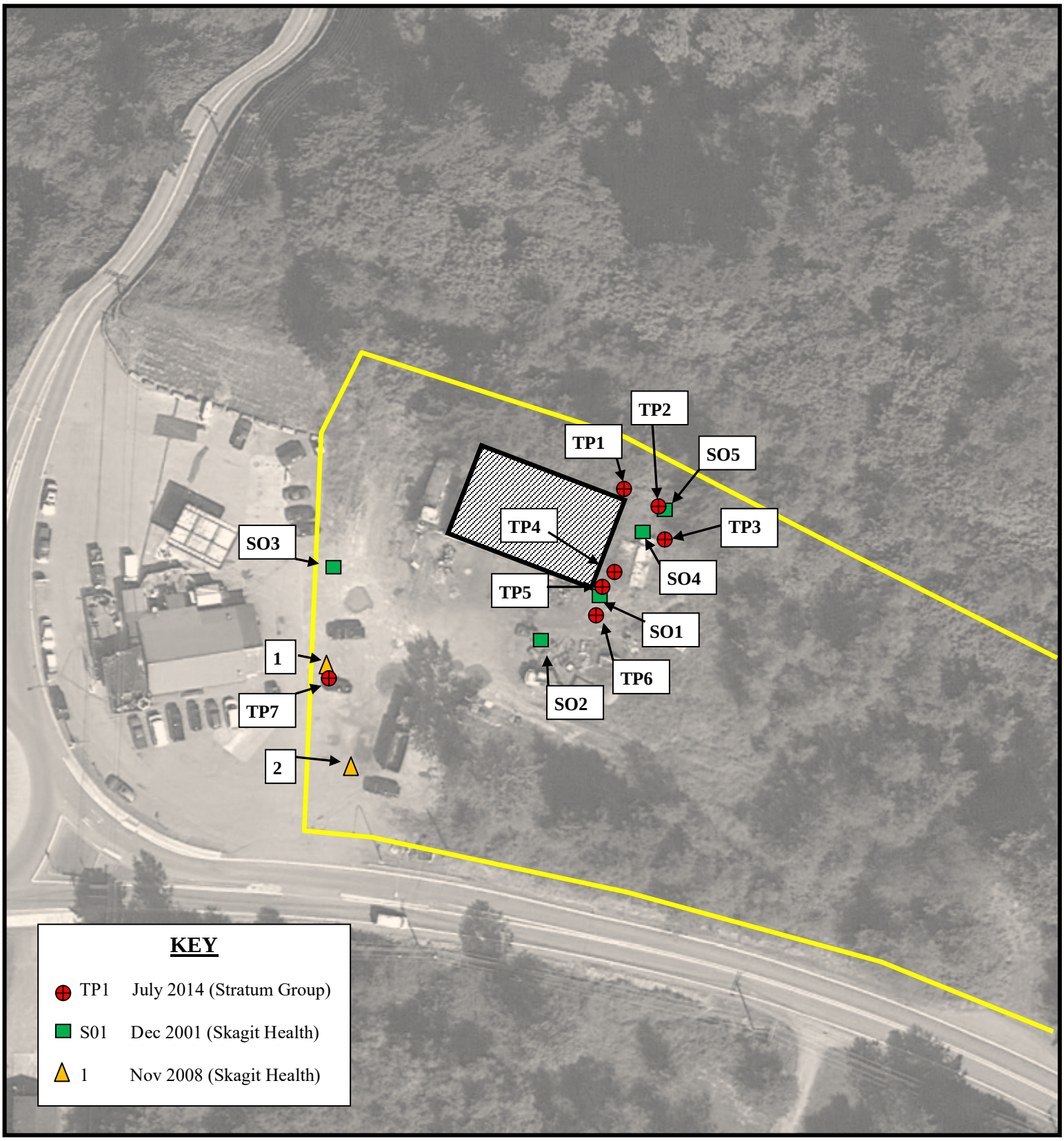
-----Original Message-----
From: Matt Kaufman [mailto:mattk@co.skagit.wa.us]
Sent: Friday, November 21, 2008 3:48 PM
To: Sacayanan, Tamara L. (ECY)
Subject: Big Rock Grocery - Nov 08

<<17 Nov 08 Big Rock 015.jpg>> Ta <<17 Nov 08 Big Rock 016.jpg>> ma <<17 Nov 08 Big Rock 001.jpg>> ra <<17 Nov 08 Big Rock 002.jpg>> , <<17 Nov 08 Big Rock 003.jpg>> S <<17 Nov 08 Big Rock 004.jpg>> ka <<17 Nov 08 Big Rock 005.jpg>> gi <<17 Nov 08 Big Rock 006.jpg>> t <<17 Nov 08 Big Rock 007.jpg>> Co <<17 Nov 08 Big Rock 008.jpg>> un <<17 Nov 08 Big Rock 009.jpg>> ty <<17 Nov 08 Big Rock 010.jpg>> P <<17 Nov 08 Big Rock 011.jpg>> ub <<17 Nov 08 Big Rock 012.jpg>> li <<17 Nov 08 Big Rock 013.jpg>> c <<17 Nov 08 Big Rock 014.jpg>> Health Department received a complaint on Monday 17 November 2008 that a gasoline spill had occurred at the Big Rock Grocery 2 miles east of Mount Vernon. I investigated it that afternoon and confirmed that a spill had occurred. Enclosed are the pictures taken during my visit. According to Randy Audette, owner of Big Rock Grocery, the spill occurred on Thursday or Friday when an SUV was being filled. The fuel pump on the tank had been replaced and when she filed the tank it spilled 5 to 10 gallons of fuel onto the ground outside of the containment apron. The fuel flowed around 20 feet to the property line where the remaining fluid was absorbed. The asphalt is in good repair on the property but changes to a broken surface on the next property which no doubt allowed a good deal of gasoline to absorb into the ground. A copy of our incident and my notes have been included in the attachments which should explain what happened.

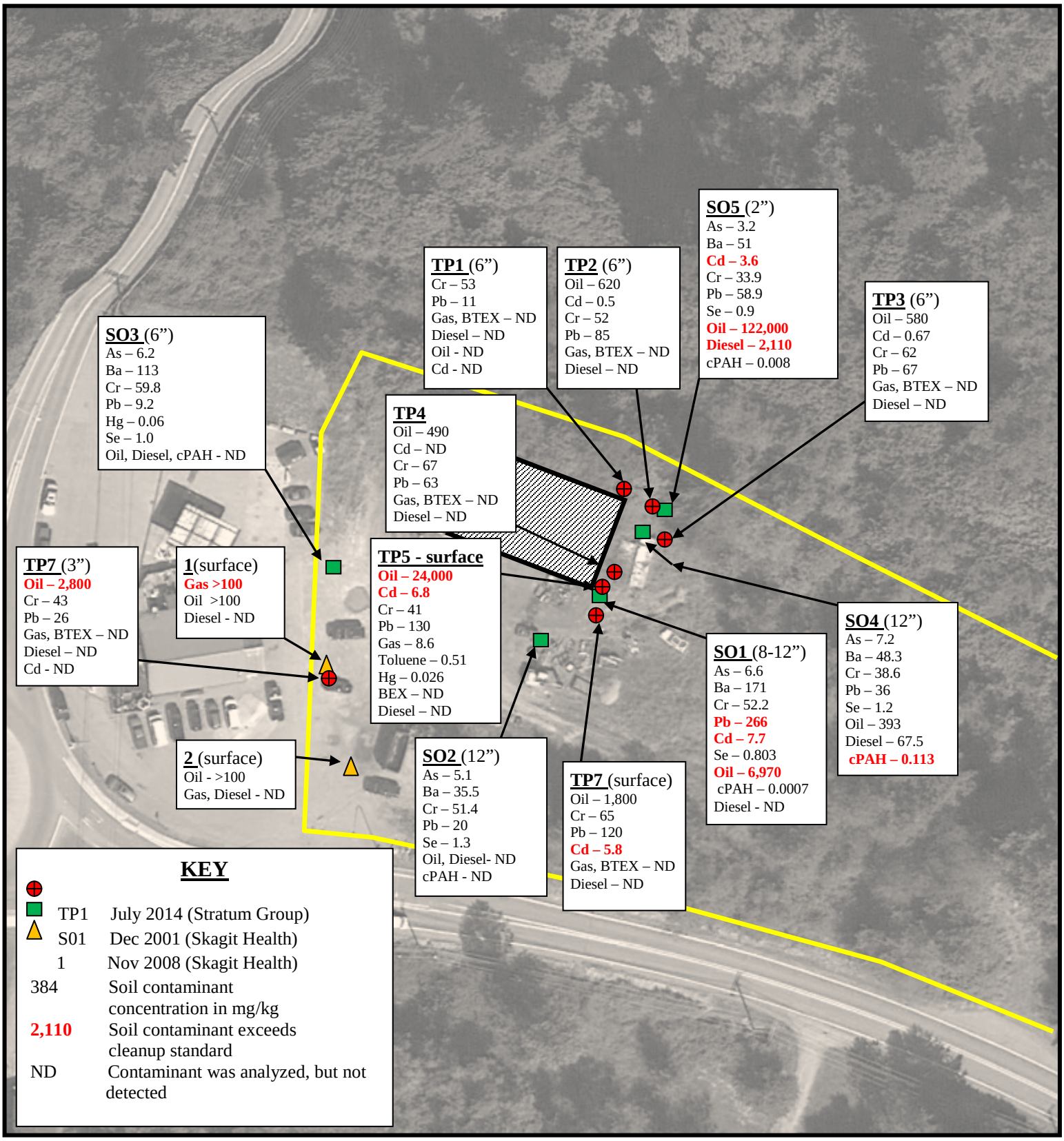
Just as a side note the puddle with the visible oil is on the complainants property not the Big Rock Grocery.
If you have any questions please call me.

Entry Person SACAYANAN, TAMARA Entry Date 11/24/2008

2014 Test Pit Investigation (Stratum Group)



Test Pit Locations (2014)



Test Pit Soil Sample Results (2014)

Site Photos for 2014 Test Pit Investigation
Stratum Group, July 18, 2014

Test pit #1, looking east along northern wall of shop

Test pit #2, looking west from northeast corner of shop

Test pit #3
Photo taken looking southeast (top) and northeast (bottom)

Test pit #4, looking southwest

Test pit #5, looking north at southeast corner of the shop

Test pit #6, looking north at southeast corner of the shop

Test pit #7, looking north at gravel lot; shop in left side of photo

Soil within Test pit #7

View of tire pile along southern boundary, east of entrance, looking north. Shop roof is in background.

July 28, 2014

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On July 21st, 10 samples were received by our laboratory and assigned our laboratory project number EV14070127. The project was identified as your Glennis Diesel. 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 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP1	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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	07/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	07/22/2014	EBS
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**53**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**11**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**167 GS4**	07/26/2014	DLC
TFT	EPA-8021	**171 GS4**	07/26/2014	DLC
C25	NWTPH-DX	**66.4**	07/22/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
GS4 - Surrogate outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP2	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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	50	2	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**620**	100	2	MG/KG	07/23/2014	EBS
Cadmium	EPA-6020	**0.50**	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**52**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**85**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**96.9**	07/26/2014	DLC
TFT	EPA-8021	**97.0**	07/26/2014	DLC
C25 2X Dilution	NWTPH-DX	**77.2**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP3-.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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	50	2	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**580**	100	2	MG/KG	07/23/2014	EBS
Cadmium	EPA-6020	**0.67**	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**62**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**67**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**108**	07/26/2014	DLC
TFT	EPA-8021	**106**	07/26/2014	DLC
C25 2X Dilution	NWTPH-DX	**74.2**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP4	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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	50	2	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**490**	100	2	MG/KG	07/23/2014	EBS
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**67**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**63**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**109**	07/26/2014	DLC
TFT	EPA-8021	**102**	07/26/2014	DLC
C25 2X Dilution	NWTPH-DX	**77.3**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP5-Surface	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**8.6**	3.0	1	MG/KG	07/27/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/27/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/27/2014	DLC
Toluene	EPA-8021	**0.51**	0.050	1	MG/KG	07/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	1000	40	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**24000**	2000	40	MG/KG	07/23/2014	EBS
Mercury	EPA-7471	**0.026**	0.020	1	MG/KG	07/23/2014	RAL
Arsenic	EPA-6020	**7.4**	1.0	5	MG/KG	07/24/2014	RAL
Cadmium	EPA-6020	**6.8**	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**41**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**130**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**76.8**	07/27/2014	DLC
TFT	EPA-8021	**75.2**	07/27/2014	DLC
C25 40X Dilution	NWTPH-DX	**112 DS2**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline and lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-06
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP5-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	07/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	07/22/2014	EBS
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**43**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**4.8**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**89.8**	07/26/2014	DLC
TFT	EPA-8021	**89.4**	07/26/2014	DLC
C25	NWTPH-DX	**83.0**	07/22/2014	EBS

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

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP5-3.5	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	07/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	07/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	07/22/2014	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Chloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Vinyl Chloride	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromomethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Chloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Carbon Disulfide	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Acetone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Methylene Chloride	EPA-8260	U	20	1	ug/Kg	07/22/2014	DLC
Acrylonitrile	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
2-Butanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromochloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Chloroform	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Benzene	EPA-8260	U	5.0	1	ug/Kg	07/22/2014	DLC
Trichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Dibromomethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromodichloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
Toluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
2-Hexanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP5-3.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Dibromochloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	ug/Kg	07/22/2014	DLC
Chlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Ethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
m,p-Xylene	EPA-8260	U	20	1	ug/Kg	07/22/2014	DLC
Styrene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
o-Xylene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromoform	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Isopropylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
N-Propyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
2-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
4-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
T-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
S-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
P-Isopropyltoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,3 Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
N-Butylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Naphthalene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**68**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**11**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**73.7**	07/27/2014	DLC

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ALS Laboratory Group A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP5-3.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**81.1**	07/22/2014	EBS
1,2-Dichloroethane-d4	EPA-8260	**105**	07/22/2014	DLC
Toluene-d8	EPA-8260	**96.9**	07/22/2014	DLC
4-Bromofluorobenzene	EPA-8260	**102**	07/22/2014	DLC

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

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-08
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP6	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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	120	5	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**1800**	250	5	MG/KG	07/23/2014	EBS
Cadmium	EPA-6020	**5.8**	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**65**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**120**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**105**	07/26/2014	DLC
TFT	EPA-8021	**105**	07/26/2014	DLC
C25 5X Dilution	NWTPH-DX	**76.5**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	7/28/2014 EV14070127 EV14070127-09
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	07/21/2014
CLIENT PROJECT:	Glennis Diesel	COLLECTION DATE:	7/18/2014 8:00:00 AM
CLIENT SAMPLE ID	TP7	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	07/26/2014	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/26/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/26/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/26/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/26/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	250	10	MG/KG	07/23/2014	EBS
TPH-Oil Range	NWTPH-DX	**2800**	500	10	MG/KG	07/23/2014	EBS
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/24/2014	RAL
Chromium	EPA-6020	**43**	2.5	5	MG/KG	07/24/2014	RAL
Lead	EPA-6020	**26**	0.50	5	MG/KG	07/24/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**102**	07/26/2014	DLC
TFT	EPA-8021	**101**	07/26/2014	DLC
C25 10X Dilution	NWTPH-DX	**79.9 DS2**	07/23/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains lube oil.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	7/28/2014
		ALS SDG#:	EV14070127
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glennis Diesel		

LABORATORY BLANK RESULTS

MBG-071714S - Batch 84293 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	07/18/2014	DLC

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

MB-071714S - Batch 84293 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	07/18/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	07/18/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	07/18/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	07/18/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	07/18/2014	DLC

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

MB-072214S - Batch 84439 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	07/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	07/22/2014	EBS

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

MB-072214S - Batch 84497 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Chloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Vinyl Chloride	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Bromomethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Chloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Carbon Disulfide	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Acetone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Methylene Chloride	EPA-8260	U	20	1	ug/Kg	07/22/2014	DLC
Acrylonitrile	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC
Methyl T-Butyl Ether	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227

CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Glennis Diesel

DATE: 7/28/2014
ALS SDG#: EV14070127
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-072214S - Batch 84497 - Soil by EPA-8260

2-Butanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC	
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
2,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Bromochloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Chloroform	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,1,1-Trichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,1-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2-Dichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Benzene	EPA-8260	U	5.0	1	ug/Kg	07/22/2014	DLC	
Trichloroethene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Dibromomethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Bromodichloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
4-Methyl-2-Pentanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC	
Toluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,1,2-Trichloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
2-Hexanone	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC	
1,3-Dichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Tetrachloroethylene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Dibromochloromethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2-Dibromoethane	EPA-8260	U	5.0	1	ug/Kg	07/22/2014	DLC	
Chlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Ethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
m,p-Xylene	EPA-8260	U	20	1	ug/Kg	07/22/2014	DLC	
Styrene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
o-Xylene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Bromoform	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Isopropylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2,3-Trichloropropane	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Bromobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
N-Propyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
2-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
4-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
T-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	

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CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227

CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Glennis Diesel

DATE: 7/28/2014
ALS SDG#: EV14070127
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-072214S - Batch 84497 - Soil by EPA-8260

S-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
P-Isopropyltoluene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,3 Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,4-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
N-Butylbenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	ug/Kg	07/22/2014	DLC	
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Hexachlorobutadiene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
Naphthalene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	07/22/2014	DLC	

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

MBLK-7232014 - Batch R238007 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY	
Mercury	EPA-7471	U	0.020	1	MG/KG	07/23/2014	RAL	

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

MB-072214S - Batch 84389 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY	
Arsenic	EPA-6020	U	0.20	1	MG/KG	07/23/2014	RAL	
Cadmium	EPA-6020	U	0.10	1	MG/KG	07/23/2014	RAL	
Chromium	EPA-6020	U	0.50	1	MG/KG	07/23/2014	RAL	
Lead	EPA-6020	U	0.10	1	MG/KG	07/23/2014	RAL	

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

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	7/28/2014
		ALS SDG#:	EV14070127
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glennis Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 84293 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**107**			07/18/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**105**	**2**		07/18/2014	DLC

ALS Test Batch ID: 84293 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether - BS	EPA-8021	**98.4**			07/18/2014	DLC
Methyl T-Butyl Ether - BSD	EPA-8021	**99.0**	**1**		07/18/2014	DLC
Benzene - BS	EPA-8021	**103**			07/18/2014	DLC
Benzene - BSD	EPA-8021	**106**	**3**		07/18/2014	DLC
Toluene - BS	EPA-8021	**106**			07/18/2014	DLC
Toluene - BSD	EPA-8021	**109**	**3**		07/18/2014	DLC
Ethylbenzene - BS	EPA-8021	**102**			07/18/2014	DLC
Ethylbenzene - BSD	EPA-8021	**105**	**3**		07/18/2014	DLC
Xylenes - BS	EPA-8021	**104**			07/18/2014	DLC
Xylenes - BSD	EPA-8021	**107**	**3**		07/18/2014	DLC

ALS Test Batch ID: 84439 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**108**			07/22/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**100**	**7**		07/22/2014	EBS

ALS Test Batch ID: 84497 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**100**			07/22/2014	DLC
1,1-Dichloroethene - BSD	EPA-8260	**101**	**1**		07/22/2014	DLC
Benzene - BS	EPA-8260	**102**			07/22/2014	DLC
Benzene - BSD	EPA-8260	**98.7**	**4**		07/22/2014	DLC
Trichloroethene - BS	EPA-8260	**97.6**			07/22/2014	DLC
Trichloroethene - BSD	EPA-8260	**94.2**	**4**		07/22/2014	DLC
Toluene - BS	EPA-8260	**103**			07/22/2014	DLC
Toluene - BSD	EPA-8260	**98.7**	**4**		07/22/2014	DLC
Chlorobenzene - BS	EPA-8260	**103**			07/22/2014	DLC
Chlorobenzene - BSD	EPA-8260	**100**	**2**		07/22/2014	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	7/28/2014
		ALS SDG#:	EV14070127
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glennis Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R238007 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**97.0**			07/23/2014	RAL
Mercury - BSD	EPA-7471	**96.0**	**1**		07/23/2014	RAL

ALS Test Batch ID: 84389 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**92.1**			07/23/2014	RAL
Arsenic - BSD	EPA-6020	**90.8**	**1**		07/23/2014	RAL
Cadmium - BS	EPA-6020	**95.6**			07/23/2014	RAL
Cadmium - BSD	EPA-6020	**86.7**	**10**		07/23/2014	RAL
Chromium - BS	EPA-6020	**101**			07/23/2014	RAL
Chromium - BSD	EPA-6020	**98.8**	**2**		07/23/2014	RAL
Lead - BS	EPA-6020	**94.6**			07/23/2014	RAL
Lead - BSD	EPA-6020	**89.8**	**5**		07/23/2014	RAL

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	7/28/2014
		ALS SDG#:	EV14070127
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glennis Diesel		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 84439 - Soil
Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	PARENT SAMPLE RESULT	SPIKE ADDED	RESULT	RPD	%REC	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - MS	NWTPH-DX	0	0	**84.6**		**0**		07/22/2014	EBS

APPROVED BY

Laboratory Director

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8620 Holly Drive, Suite 100
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EY14070127

Date 7/18/14 Page 1 Of 1

PROJECT ID: Glenn's Diesel
REPORT TO COMPANY: Stratum Group
PROJECT MANAGER: Kim Ninneman
ADDRESS: Po Box 2546
Bellingham, WA 98227
PHONE: 360-714-9409 FAX: 360-715174.
P.O. #: Glenn's Diesel E-MAIL: stratumgroup@qwestoffice.net
INVOICE TO COMPANY: ~~Alast~~ Greg Johnston
ATTENTION:
ADDRESS: greg@alaskametalproducts.com
907-376-6348 (cell)

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ 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 ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☒ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify): lead, cadmium, chromium	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	TP1	7/18/14		Soil	1		X	X	X	X											X	2	
2.	TP2	↓		↓	2		X	X	X	X											X	2	
3.	TP3-.5				3		X	X	X	X											X	2	
4.	TP4				4		X	X	X	X											X	2	
5.	TP5-surface				5		X	X	X	X								X				2	
6.	TP5-2				6		X	X	X	X											X	2	
7.	TP5-3.5				7		X	X				X									X	2	
8.	TP6				8		X	X	X	X											X	2	
9.	TP7				9		X	X	X	X											X	2	
10.	TP3-3.5				10																		

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Kim Ninneman Stratum Group 7/18/14 6pm
Received By: [signature] Receive
2. Relinquished By:
Received By: [signature] ALS 7/21/14 1:20pm

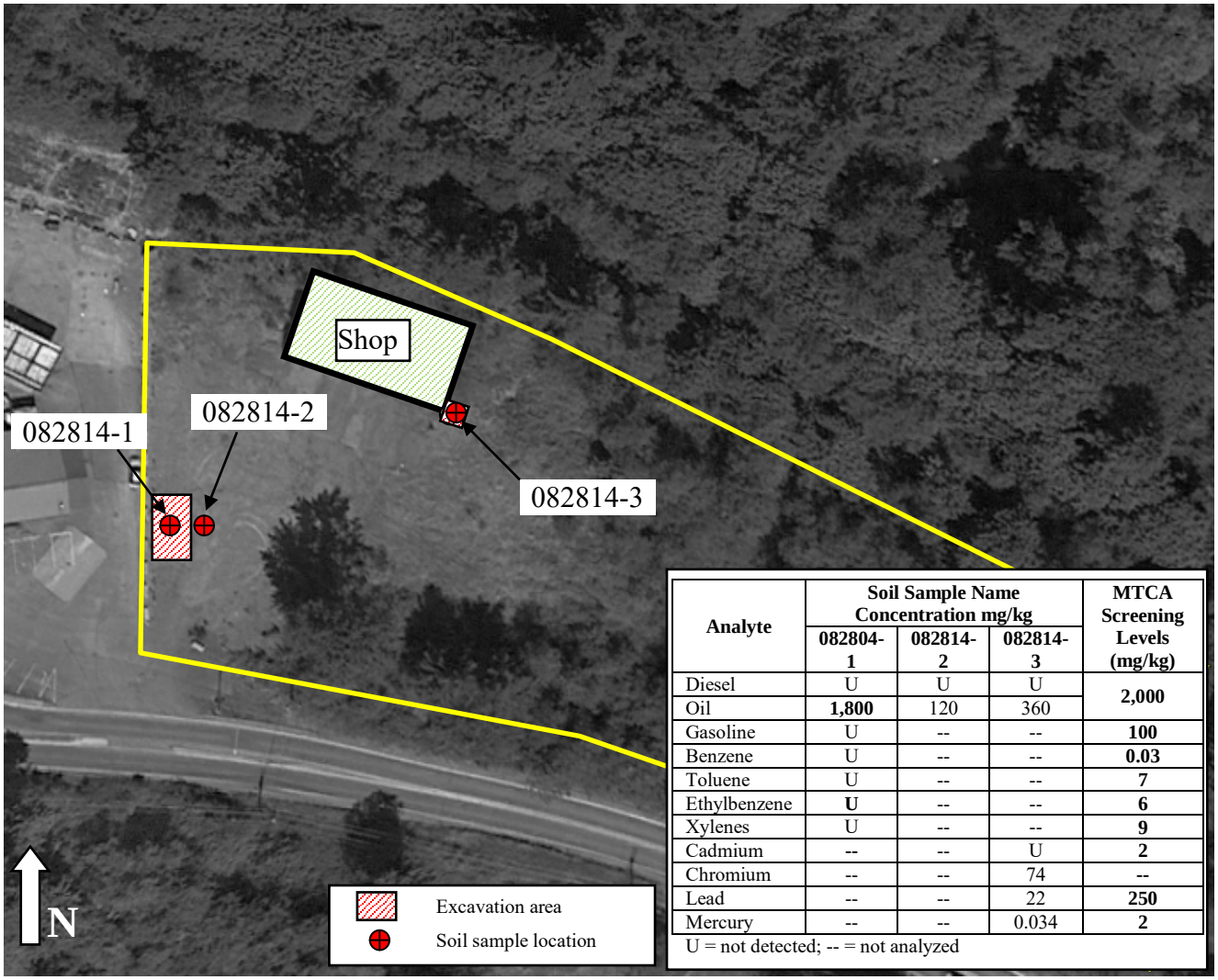
TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY
OTHER:
Specify: #10 = archive

* Turnaround request less than standard may incur Rush Charges

LABORATORY COPY

2014 Cleanup Documents (Stratum Group)

Glenn's Diesel, 2014 Cleanup



Analyte	Soil Sample Name Concentration mg/kg			MTCA Screening Levels (mg/kg)
	082804-1	082814-2	082814-3	
Diesel	U	U	U	**2,000**
Oil	**1,800**	120	360	
Gasoline	U	--	--	**100**
Benzene	U	--	--	**0.03**
Toluene	U	--	--	**7**
Ethylbenzene	**U**	--	--	**6**
Xylenes	U	--	--	**9**
Cadmium	--	--	U	**2**
Chromium	--	--	74	--
Lead	--	--	22	**250**
Mercury	--	--	0.034	**2**

U = not detected; -- = not analyzed

Location and excavation during 2014 soil excavation at Glenn's Diesel

2014 Cleanup Photographs

~5'by 5' excavation adjacent to the southeast corner of the shop, 2014

Excavation area along western property boundary, 2014

View of western excavation area looking south-southeast, 2014

Tires being removed from southern boundary, in preparation for removal, 2014

September 12, 2014

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On August 29th, 3 samples were received by our laboratory and assigned our laboratory project number EV14080156. The project was identified as your Glenn's Diesel. 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 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	9/12/2014 EV14080156 EV14080156-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	08/29/2014
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	8/28/2014 4:45:00 PM
CLIENT SAMPLE ID	082814-1	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	08/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	08/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	08/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	120	5	MG/KG	08/29/2014	EBS
TPH-Oil Range	NWTPH-DX	**1800**	250	5	MG/KG	08/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**91.5**	08/29/2014	DLC
TFT	EPA-8021	**93.2**	08/29/2014	DLC
C25 5X Dilution	NWTPH-DX	**124**	08/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	9/12/2014 EV14080156 EV14080156-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	08/29/2014
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	8/28/2014 4:50:00 PM
CLIENT SAMPLE ID	082814-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/29/2014	EBS
TPH-Oil Range	NWTPH-DX	**120**	50	1	MG/KG	08/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**86.1**	08/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	9/12/2014 EV14080156 EV14080156-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	08/29/2014
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	8/28/2014 4:55:00 PM
CLIENT SAMPLE ID	082814-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/29/2014	EBS
TPH-Oil Range	NWTPH-DX	**360**	50	1	MG/KG	08/29/2014	EBS
Mercury	EPA-7471	**0.034**	0.020	1	MG/KG	08/29/2014	RAL
Arsenic	EPA-6020	**11**	1.0	5	MG/KG	09/05/2014	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	09/05/2014	RAL
Chromium	EPA-6020	**74**	0.50	5	MG/KG	09/05/2014	RAL
Lead	EPA-6020	**22**	0.50	5	MG/KG	09/05/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**92.4**	08/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	9/12/2014
		ALS SDG#:	EV14080156
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY BLANK RESULTS

MBG-082814S - Batch 85606 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	08/28/2014	DLC

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

MB-082814S - Batch 85606 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	08/28/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	08/28/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/28/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/28/2014	DLC

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

MB-082814S - Batch 85618 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	08/28/2014	EBS

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

MBLK-8292014 - Batch R240199 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	08/29/2014	RAL

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

MB-090414S - Batch 85761 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	09/04/2014	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	09/04/2014	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	09/04/2014	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	09/04/2014	RAL

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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	9/12/2014
		ALS SDG#:	EV14080156
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 85606 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**93.5**			08/28/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**92.6**	**1**		08/28/2014	DLC

ALS Test Batch ID: 85606 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	**79.3**			08/28/2014	DLC
Benzene - BSD	EPA-8021	**79.7**	**1**		08/28/2014	DLC
Toluene - BS	EPA-8021	**82.7**			08/28/2014	DLC
Toluene - BSD	EPA-8021	**83.0**	**0**		08/28/2014	DLC
Ethylbenzene - BS	EPA-8021	**82.3**			08/28/2014	DLC
Ethylbenzene - BSD	EPA-8021	**82.7**	**0**		08/28/2014	DLC
Xylenes - BS	EPA-8021	**82.9**			08/28/2014	DLC
Xylenes - BSD	EPA-8021	**83.2**	**0**		08/28/2014	DLC

ALS Test Batch ID: 85618 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**98.3**			08/28/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**96.4**	**2**		08/28/2014	EBS

ALS Test Batch ID: R240199 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**96.8**			08/29/2014	RAL
Mercury - BSD	EPA-7471	**97.8**	**1**		08/29/2014	RAL

ALS Test Batch ID: 85761 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**96.4**			09/04/2014	RAL
Arsenic - BSD	EPA-6020	**97.2**	**1**		09/04/2014	RAL
Cadmium - BS	EPA-6020	**100**			09/04/2014	RAL
Cadmium - BSD	EPA-6020	**102**	**2**		09/04/2014	RAL
Chromium - BS	EPA-6020	**96.6**			09/04/2014	RAL
Chromium - BSD	EPA-6020	**98.5**	**2**		09/04/2014	RAL
Lead - BS	EPA-6020	**102**			09/04/2014	RAL
Lead - BSD	EPA-6020	**104**	**2**		09/04/2014	RAL

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS SDG#: WDOE ACCREDITATION:	9/12/2014 EV14080156 C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY CONTROL SAMPLE RESULTS

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV14080156

Date 8/29/14 Page 1 Of 1

PROJECT ID: Glenns Diesel
REPORT TO COMPANY: Stratum Group
PROJECT MANAGER: Kim Ninnemann
ADDRESS: Po Box 2546
Bellingham, WA 98227
PHONE: 360-714-9409 FAX: 360-715-1740
P.O. #: Glenn's Diesel E-MAIL: stratumgroupe@qwestoffice.net
INVOICE TO COMPANY:
ATTENTION: Greg Johnston
ADDRESS: grege alaskametalproducts.com
907-376-6348 cell

ANALYSIS REQUESTED

#	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ 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 ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☒ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	082814-1	8/28/14	4:45	Soil	1		X	X	X													1	
2.	082814-2	↓	4:50	↓	2		X															1	
3.	082814-3	↓	4:55	↓	3		X											X				1	
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: [signature], Stratum, 8/29/14 12:20
Received By: Shawn Robinson ALS 8/29/14 12:20
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

LABORATORY COPY

Weighed At: Soil Remediation
6300 Glenwood Ave
CEMEX Everett, WA 98213

1876074554

Location: 1876

Order: 40889554 **Dispatch:** **Date:** 08/29/2014
Ship To: CASH1876 - EVERETT SOIL REMEDIATION SOIL REMEDIATIC
14885 STATE RT 9
MOUNT VERNON
EVERETT, WA 98203
Instruct: SILVER PICKUP TRUCK/TRAILER

Job #: GREG JOHNSTON **PO:** CASH BIG ROCK
Product: 1192508 - CLASS 3 SOIL DUMPED BY TON
Carrier: -
Vehicle: 2032408 - CASH1876-1,SOILS CASH
Tractor / Trailer1 / Trailer 2 -/- 1 -/-

Qty: 3.34 ton
Weighmaster:
CEMEX
Deputy Weighmaster:
Ashley Cordova
Scale: 1
In: 10:10 am
Out: 11:23 am

--- DRIVER ON AT TARE & GROSS ---

	lb	ton	tne
Gross:	17,520	8.76	7.95
Tare:	10,840	5.42	4.92
Net:	6,680	3.34	3.03

PRICE	44.16	147.49
FREIGHT	0.00	0.00
FEE/OTHER		5.31
TAX		0.00
TOTAL		**152.80**

CEMEX'S STANDARD TERMS AND CONDITIONS INCORPORATED HEREIN.

Signature of Receiving Agent Driver:

METRIC CONVERSION FORMULA: POUNDS DIVIDED BY 2204.623, ROUNDED TO 2 DECIMALS
SEE REVERSE SIDE FOR PRODUCT LABEL INFORMATION

Weighed At: Soil Remediation
6300 Glenwood Ave
CEMEX Everett, WA 98213

1876074554

Location: 1876

Order: 40889554 **Dispatch:** **Date:** 08/29/2014
Ship To: CASH1876 - EVERETT SOIL REMEDIATION SOIL REMEDIATIC
14885 STATE RT 9
MOUNT VERNON
EVERETT, WA 98203
Instruct: SILVER PICKUP TRUCK/TRAILER

Job #: GREG JOHNSTON **PO:** CASH BIG ROCK
Product: 1192508 - CLASS 3 SOIL DUMPED BY TON
Carrier: -
Vehicle: 2032408 - CASH1876-1,SOILS CASH
Tractor / Trailer1 / Trailer 2 -/- 1 -/-

Qty: 3.34 ton
Weighmaster:
CEMEX
Deputy Weighmaster:
Ashley Cordova
Scale: 1
In: 10:10 am
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--- DRIVER ON AT TARE & GROSS ---

	lb	ton	tne
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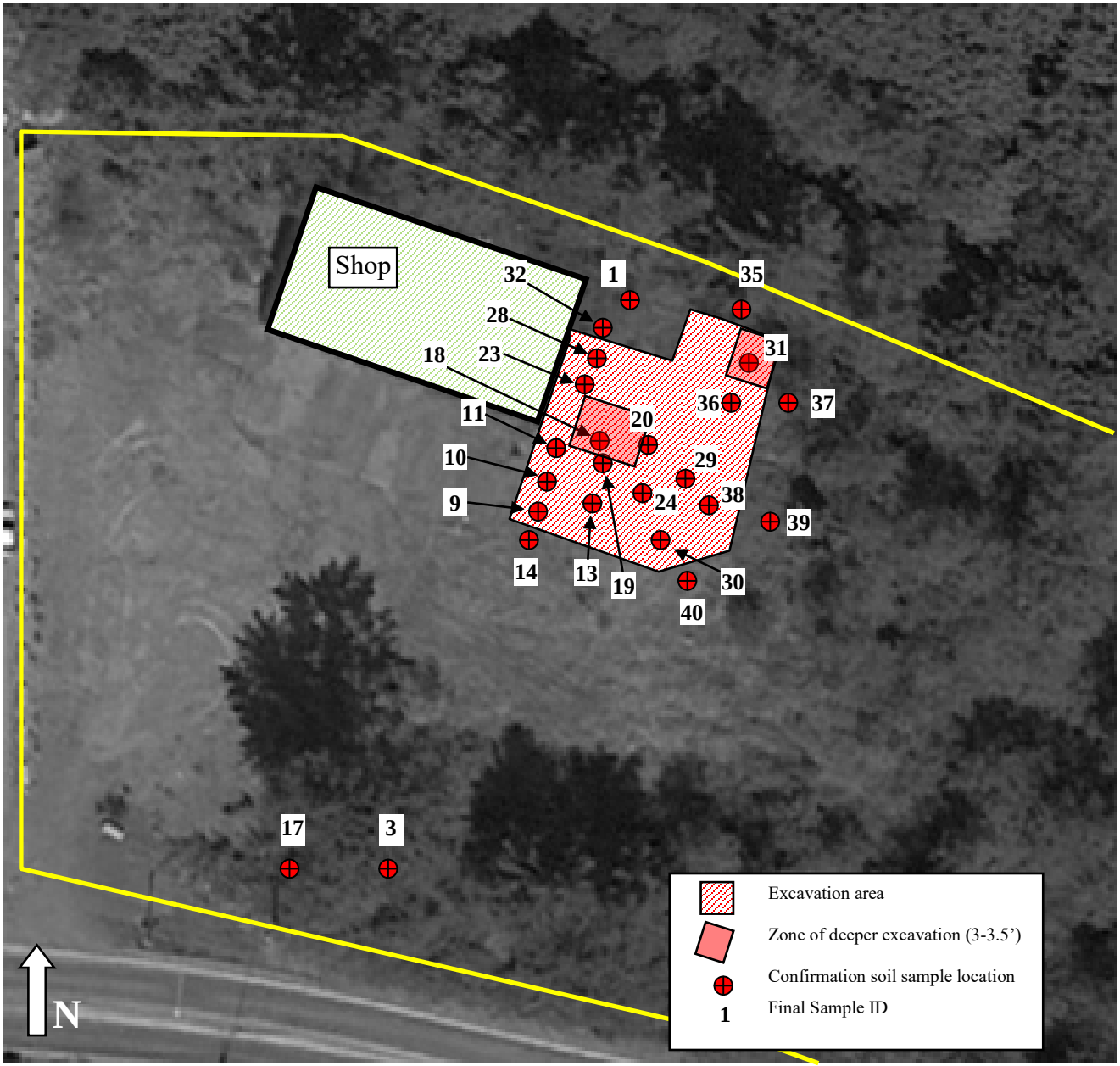
CEMEX'S STANDARD TERMS AND CONDITIONS INCORPORATED HEREIN.

Signature of Receiving Agent Driver:

METRIC CONVERSION FORMULA: POUNDS DIVIDED BY 2204.623, ROUNDED TO 2 DECIMALS
SEE REVERSE SIDE FOR PRODUCT LABEL INFORMATION

2018 Cleanup Documents (Stratum Group)

Glenn's Diesel, 2018 Cleanup



Confirmation soil sample locations from 2018 soil cleanup
(scale is ~1" = 65')

Confirmation soil sample results from 2018 cleanup

	Map ID	Sample Number	Analyte Concentration (mg/kg)								
			Cd	Pb	Cr	As	Hg	Gas	Diesel	Oil	cPAH
Confirmation samples; Soil remains in place	**1**	092818-1	--	--	--	--	--	--	--	--	U<0.02
	3	092818-3	0.76	110	76	9.1	0.079	U<20	U<50	330	--
	9	101118-9	0.28	59	--	--	--	--	--	--	--
	10	101118-10	0.32	75	--	--	--	--	--	--	--
	11	101118-11	0.21	21	--	--	--	--	--	--	--
	13	101118-13	0.29	65	--	--	--	--	--	--	--
	14	101118-14	0.63	55	--	--	--	--	--	--	--
	17	101118-17	1.6	72	--	--	--	--	--	--	--
	18	102618-18	0.17	13	--	--	--	--	U<25	U<50	--
	19	102618-19	0.28	19	--	--	--	--	U<29	81	--
	20	102618-20	0.17	14	--	--	--	--	U<25	57	--
	23	111618-23	0.25	70	--	--	--	--	--	--	--
	24	111618-24	0.15	19	--	--	--	--	--	--	--
	28	112818-28	0.21	46	--	--	--	--	--	--	--
	29	112818-29	0.40	75	--	--	--	--	--	--	--
	30	112818-30	0.26	64	--	--	--	--	--	--	--
	31	112818-31	0.75	50	--	--	--	--	--	--	--
	32	112818-32	1.1	70	--	--	--	--	--	--	--
	35	120518-35	1.1	42	--	--	--	--	--	--	--
	36	120518-36	0.30	23	--	--	--	--	--	--	--
	37	120518-37	**2.2**	60	--	--	--	--	--	--	--
	38	120518-38	0.44	29	--	--	--	--	--	--	--
	39	120518-39	2.0	62	--	--	--	--	--	--	--
	40	120518-40	0.22	61	--	--	--	--	--	--	--
Cleanup Levels (mg/kg)			***2***	***118***	***2,000***	***20***	***2***	***100***	***2,000***		***0.1 TEF***
Source of Cleanup Standards			Method A	Wildlife	Method A	Method A	Method A	Method A	Method A		Method A

U = analyte not detected at reporting limit; shaded box with red bold type indicates sample exceeds cleanup standard

Excavated soil sample data from 2018 cleanup

Soil Excavated	Sample Number	Map Location ID[a]	Analyte Concentration (mg/kg)							
			Cd	Pb	Cr	As	Hg	Gas	Diesel	Oil
	092818-2	17	**2.1**	**120**	73	7.5	0.18	U<20	U<50	620
	092818-4	10	**6.7**	**190**	--	--	--	--	--	--
	092818-5	11	**9.4**	**290**	--	--	--	--	--	--
	092818-6	9	**4.2**	**120**	--	--	--	--	--	--
	092818-7	13	**8.3**	**200**	--	--	--	--	--	--
	092818-8	18	**4.0**	**180**	--	--	--	--	--	--
	101118-12	18	**5.2**	**190**	--	--	--	--	--	--
	101118-15	--	**2.8**	**130**	--	--	--	--	--	--
	101118-16	--	**3.5**	91	--	--	--	--	--	--
	102618-21	23	**4.1**	**140**	--	--	--	--	--	--
	102618-22	24	**2.4**	**120**	--	--	--	--	--	--
	111618-25	28	**2.3**	61	--	--	--	--	--	--
	111618-26	29	**2.9**	**310**	--	--	--	--	--	--
	111618-27	30	**3.6**	**160**	--	--	--	--	--	--
	112818-33	36	**4.2**	**180**	--	--	--	--	--	--
	112818-34	38	**2.6**	110	--	--	--	--	--	--
Cleanup Levels (mg/kg)			***2***	***118***	***2,000***	***20***	***2***	***100***	***2,000***	
Source of Cleanup Standards			Method A	Wildlife	Method A	Method A	Method A	Method A	Method A	

a = location where these earlier samples had been collected, but the area was over-excavated to remove this soil; soil data in bold red type exceed the cleanup standards; U = analyte not detected at reporting limit

Site Photographs, 2018 Cleanup at Glenn's Diesel

Extent of excavation (as of Sept 28, 2018), looking north-northwest.

Area of former tire piles along southern boundary, looking eastward (Sept 28, 2018)

Excavation area expanded on Oct 11, 2018, looking north. Blue gloves located within excavation where soil samples were planned.

Excavation area looking south (as of Oct 11, 2018)

View former tire pile area where significant disturbance took place to repair a broken electrical line (Oct 11, 2018), looking eastward. Area re-sampled.

Deeper excavation area (Oct 26, 2018), looking north.

Excavation area (as of November 16, 2018), looking northwest. Previous excavation area backfilled with clean backfill and excavation expanded to north and east.

View of excavation area looking southeast (as of November 16, 2018)

Excavation area further expanded to north and east (November 28, 2018), looking south. Excavation extended further left of photo.

Northeast corner of excavation (as of November 28, 2018), looking east. Area required deeper excavation due to presence of debris below surface.

Expansion of northeastern corner of excavation, including deeper soil removal due to debris (as of December 5, 2018)

View of excavation, looking northward (December 5, 2018)

View of final excavation, looking northeast (December 5, 2018)

View of final excavation, looking east along the south end of excavation (December 5, 2018)

October 8, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On September 28th, 9 samples were received by our laboratory and assigned our laboratory project number EV18090184. The project was identified as your Glenn's Diesel. 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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 10:20:00 AM
CLIENT SAMPLE ID	092818-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	10/04/2018	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14	EPA-8270 SIM	**67.2**	10/04/2018	JMK

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 10:30:00 AM
CLIENT SAMPLE ID	092818-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	20	1	MG/KG	10/02/2018	EBS
HCID-Diesel Range	NWTPH-HCID	U	50	1	MG/KG	10/02/2018	EBS
HCID-Oil Range	NWTPH-HCID	**>100**	100	1	MG/KG	10/02/2018	EBS
TPH-Diesel Range	NWTPH-DX	U	50	2	MG/KG	10/08/2018	EBS
TPH-Oil Range	NWTPH-DX	**620**	100	2	MG/KG	10/08/2018	EBS
Mercury	EPA-7471	**0.18**	0.020	1	MG/KG	10/02/2018	RAL
Arsenic	EPA-6020	**7.5**	0.77	1	MG/KG	10/04/2018	RAL
Cadmium	EPA-6020	**2.1**	0.24	1	MG/KG	10/04/2018	RAL
Chromium	EPA-6020	**73**	0.39	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**120**	0.25	1	MG/KG	10/04/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
BCB	NWTPH-HCID	**89.8**	10/02/2018	EBS
C25	NWTPH-HCID	**139**	10/02/2018	EBS
C25 2X Dilution	NWTPH-DX	**117**	10/08/2018	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 10:35:00 AM
CLIENT SAMPLE ID	092818-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	20	1	MG/KG	10/02/2018	EBS
HCID-Diesel Range	NWTPH-HCID	U	50	1	MG/KG	10/02/2018	EBS
HCID-Oil Range	NWTPH-HCID	**>100**	100	1	MG/KG	10/02/2018	EBS
TPH-Diesel Range	NWTPH-DX	U	50	2	MG/KG	10/08/2018	EBS
TPH-Oil Range	NWTPH-DX	**330**	100	2	MG/KG	10/08/2018	EBS
Mercury	EPA-7471	**0.079**	0.020	1	MG/KG	10/02/2018	RAL
Arsenic	EPA-6020	**9.1**	0.62	1	MG/KG	10/04/2018	RAL
Cadmium	EPA-6020	**0.76**	0.19	1	MG/KG	10/04/2018	RAL
Chromium	EPA-6020	**76**	0.31	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**110**	0.20	1	MG/KG	10/04/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
BCB	NWTPH-HCID	**87.6**	10/02/2018	EBS
C25	NWTPH-HCID	**99.8**	10/02/2018	EBS
C25 2X Dilution	NWTPH-DX	**102**	10/08/2018	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:00:00 AM
CLIENT SAMPLE ID	092818-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**6.7**	0.20	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**190**	0.21	1	MG/KG	10/04/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:10:00 AM
CLIENT SAMPLE ID	092818-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**9.4**	0.20	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**290**	0.21	1	MG/KG	10/04/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-06
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:15:00 AM
CLIENT SAMPLE ID	092818-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**4.2**	0.21	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**120**	0.22	1	MG/KG	10/04/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:20:00 AM
CLIENT SAMPLE ID	092818-7	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**8.3**	0.22	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**200**	0.23	1	MG/KG	10/04/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-08
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:25:00 AM
CLIENT SAMPLE ID	092818-8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**4.0**	0.23	1	MG/KG	10/04/2018	RAL
Lead	EPA-6020	**180**	0.24	1	MG/KG	10/04/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/8/2018 EV18090184 EV18090184-09
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	09/28/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	9/28/2018 11:45:00 AM
CLIENT SAMPLE ID	092818-9	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (TCLP)	EPA-7470/1311	U	0.00020	1	MG/L	10/04/2018	RAL
Arsenic (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	10/04/2018	RAL
Barium (TCLP)	EPA-6020/1311	**0.54**	0.025	5	MG/L	10/04/2018	RAL
Cadmium (TCLP)	EPA-6020/1311	**0.032**	0.025	5	MG/L	10/04/2018	RAL
Chromium (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	10/04/2018	RAL
Lead (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	10/04/2018	RAL
Selenium (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	10/04/2018	RAL
Silver (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	10/04/2018	RAL

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	10/8/2018
		ALS SDG#:	EV18090184
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY BLANK RESULTS

MB-100218S - Batch 133123 - Soil by NWTPH-HCID

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	MG/KG	20	10/02/2018	EBS
HCID-Diesel Range	NWTPH-HCID	U	MG/KG	50	10/02/2018	EBS
HCID-Oil Range	NWTPH-HCID	U	MG/KG	100	10/02/2018	EBS

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

MB-100818S - Batch 133290 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	10/08/2018	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	10/08/2018	EBS

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

MB-100318S - Batch 133170 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Benzo[A]Anthracene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Chrysene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Benzo[B]Fluoranthene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Benzo[K]Fluoranthene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Benzo[A]Pyrene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	UG/KG	20	10/03/2018	JMK

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

MBLK-324870 - Batch R324870 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	10/02/2018	RAL

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

MBLK-324760 - Batch R324760 - TCLP Extract by EPA-7470

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7470	U	MG/L	0.00020	10/04/2018	RAL

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

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	10/8/2018
		ALS SDG#:	EV18090184
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY BLANK RESULTS

MB-100118S - Batch 133141 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	10/04/2018	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	10/04/2018	RAL
Chromium	EPA-6020	U	MG/KG	0.10	10/04/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	10/04/2018	RAL

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

MBLK-324869 - Batch R324869 - TCLP Extract by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Barium	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Cadmium	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Chromium	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Lead	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Selenium	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL
Silver	EPA-6020	U	MG/L	0.0050	10/04/2018	RAL

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

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

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CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227
CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Glenn's Diesel

DATE: 10/8/2018
ALS SDG#: EV18090184
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 133290 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**96.8**			75.5	122.1	10/08/2018	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**107**	**10**		75.5	122.1	10/08/2018	EBS

ALS Test Batch ID: 133170 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	**91.6**			20	150	10/04/2018	JMK
Naphthalene - BSD	EPA-8270 SIM	**78.3**	**16**		20	150	10/04/2018	JMK
Benzo[A]Anthracene - BS	EPA-8270 SIM	**84.0**			20	150	10/04/2018	JMK
Benzo[A]Anthracene - BSD	EPA-8270 SIM	**66.4**	**23**		20	150	10/04/2018	JMK
Chrysene - BS	EPA-8270 SIM	**98.5**			20	150	10/04/2018	JMK
Chrysene - BSD	EPA-8270 SIM	**79.8**	**21**		20	150	10/04/2018	JMK
Benzo[B]Fluoranthene - BS	EPA-8270 SIM	**89.3**			20	150	10/04/2018	JMK
Benzo[B]Fluoranthene - BSD	EPA-8270 SIM	**71.5**	**22**		20	150	10/04/2018	JMK
Benzo[K]Fluoranthene - BS	EPA-8270 SIM	**102**			20	150	10/04/2018	JMK
Benzo[K]Fluoranthene - BSD	EPA-8270 SIM	**82.3**	**22**		20	150	10/04/2018	JMK
Benzo[A]Pyrene - BS	EPA-8270 SIM	**95.4**			20	150	10/04/2018	JMK
Benzo[A]Pyrene - BSD	EPA-8270 SIM	**76.7**	**22**		20	150	10/04/2018	JMK
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270 SIM	**92.3**			20	150	10/04/2018	JMK
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270 SIM	**74.5**	**21**		20	150	10/04/2018	JMK
Dibenz[A,H]Anthracene - BS	EPA-8270 SIM	**91.7**			20	150	10/04/2018	JMK
Dibenz[A,H]Anthracene - BSD	EPA-8270 SIM	**74.0**	**21**		20	150	10/04/2018	JMK
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	**90.1**			20	150	10/04/2018	JMK
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	**73.3**	**20**		20	150	10/04/2018	JMK

ALS Test Batch ID: R324870 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**106**			81.8	117	10/02/2018	RAL
Mercury - BSD	EPA-7471	**106**	**0**		81.8	117	10/02/2018	RAL

ALS Test Batch ID: R324760 - TCLP Extract by EPA-7470

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7470	**116**		S	85	115	10/04/2018	RAL
Mercury - BSD	EPA-7470	**114**	**2**		85	115	10/04/2018	RAL

S - Outside of control limits.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	10/8/2018
		ALS SDG#:	EV18090184
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 133141 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**99.5**			80	120	10/04/2018	RAL
Arsenic - BSD	EPA-6020	**102**	**2**		80	120	10/04/2018	RAL
Cadmium - BS	EPA-6020	**104**			80	120	10/04/2018	RAL
Cadmium - BSD	EPA-6020	**107**	**2**		80	120	10/04/2018	RAL
Chromium - BS	EPA-6020	**97.6**			80	120	10/04/2018	RAL
Chromium - BSD	EPA-6020	**101**	**3**		80	120	10/04/2018	RAL
Lead - BS	EPA-6020	**102**			80	120	10/04/2018	RAL
Lead - BSD	EPA-6020	**105**	**3**		80	120	10/04/2018	RAL

ALS Test Batch ID: R324869 - TCLP Extract by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**100**			89.1	110	10/04/2018	RAL
Arsenic - BSD	EPA-6020	**102**	**2**		89.1	110	10/04/2018	RAL
Barium - BS	EPA-6020	**100**			88.5	108	10/04/2018	RAL
Barium - BSD	EPA-6020	**105**	**5**		88.5	108	10/04/2018	RAL
Cadmium - BS	EPA-6020	**104**			89.4	109	10/04/2018	RAL
Cadmium - BSD	EPA-6020	**104**	**0**		89.4	109	10/04/2018	RAL
Chromium - BS	EPA-6020	**96.0**			86.2	107	10/04/2018	RAL
Chromium - BSD	EPA-6020	**99.0**	**3**		86.2	107	10/04/2018	RAL
Lead - BS	EPA-6020	**101**			87.5	107	10/04/2018	RAL
Lead - BSD	EPA-6020	**103**	**2**		87.5	107	10/04/2018	RAL
Selenium - BS	EPA-6020	**101**			90.2	113	10/04/2018	RAL
Selenium - BSD	EPA-6020	**102**	**1**		90.2	113	10/04/2018	RAL
Silver - BS	EPA-6020	**102**			80	120	10/04/2018	RAL
Silver - BSD	EPA-6020	**104**	**2**		80	120	10/04/2018	RAL

APPROVED BY

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
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1809184

Date 9/28/18 Page 1 Of 1

PROJECT ID:	Glenn's Diesel
REPORT TO COMPANY:	Stratum Group
PROJECT MANAGER:	Kim Nienemann
ADDRESS:	Po Box 2546
	Bellingham, WA 98227
PHONE:	360 714 9403 P.O. #: Glenn's Diesel
E-MAIL:	kime stratumgroup net
INVOICE TO COMPANY:	
ATTENTION:	Same as above
ADDRESS:	

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 ☐	cPAH	Cd, Pb						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 092818-1	9/28/18	10:20	Soil	1															X							1	
2. 092818-2	↓	10:30	↓	2	X	X												X								2	
3. 092818-3		10:35		3	X	X												X								1	
4. 092818-4		11:00		4																X						1	
5. 092818-5		11:10		5																X						1	
6. 092818-6		11:15		6																X						1	
7. 092818-7		11:20		7																X						1	
8. 092818-8		11:25		8																X						1	
9. 092818-9	↓	11:45	↓	9															X							1	
10.																											

SPECIAL INSTRUCTIONS -2,3 Added Dx per Kim.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Stratum Group 9/28/18 12:50
   Received By: ALS 9/28/18 12:50
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

October 16, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On October 11th, 9 samples were received by our laboratory and assigned our laboratory project number EV18100092. The project was identified as your Glenns Diesel. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:30:00 PM
CLIENT SAMPLE ID	101118-9	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.28**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**59**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:32:00 PM
CLIENT SAMPLE ID	101118-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.32**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**75**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:34:00 PM
CLIENT SAMPLE ID	101118-11	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.21**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**21**	0.10	1	MG/KG	10/12/2018	RAL

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:36:00 PM
CLIENT SAMPLE ID	101118-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**5.2**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**190**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:38:00 PM
CLIENT SAMPLE ID	101118-13	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.29**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**65**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-06
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:40:00 PM
CLIENT SAMPLE ID	101118-14	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.63**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**55**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:42:00 PM
CLIENT SAMPLE ID	101118-15	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.8**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**130**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-08
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:45:00 PM
CLIENT SAMPLE ID	101118-16	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**3.5**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**91**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	10/16/2018 EV18100092 EV18100092-09
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/11/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/11/2018 12:55:00 PM
CLIENT SAMPLE ID	101118-17	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**1.6**	0.10	1	MG/KG	10/12/2018	RAL
Lead	EPA-6020	**72**	0.10	1	MG/KG	10/12/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	10/16/2018
		ALS SDG#:	EV18100092
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

LABORATORY BLANK RESULTS

MB-101218S - Batch 133576 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	MG/KG	0.10	10/12/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	10/12/2018	RAL

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	10/16/2018
		ALS SDG#:	EV18100092
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 133576 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Cadmium - BS	EPA-6020	**115**			80	120	10/12/2018	RAL
Cadmium - BSD	EPA-6020	**117**	**2**		80	120	10/12/2018	RAL
Lead - BS	EPA-6020	**103**			80	120	10/12/2018	RAL
Lead - BSD	EPA-6020	**104**	**1**		80	120	10/12/2018	RAL

APPROVED BY

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
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1810092

Date 10/11/18 Page 1 of

PROJECT ID:	Glenns Diesel
REPORT TO COMPANY:	Stratum Group
PROJECT MANAGER:	Kim Nienaber
ADDRESS:	PO Box 2546
	Bellingham, WA 98227
PHONE:	360 714 9409 P.O. #: Glenns Diesel
E-MAIL:	Kim@stratumgroup.net
INVOICE TO COMPANY:	
ATTENTION:	Same as Above
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 ☐	OTHER (Specify): Cd, Pb	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 101118-9	10/11/18	12:30	Soil	1																X	1	
2. 101118-10		12:32		2																X	1	
3. 101118-11		12:34		3																X	1	
4. 101118-12		12:36		4																X	1	
5. 101118-13		12:38		5																X	1	
6. 101118-14		12:40		6																X	1	
7. 101118-15		12:42		7																X	1	
8. 101118-16		12:45		8																X	1	
9. 101118-17	↓	12:55	↓	9																X	1	
10.																						

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Kim Stratum Group 10/11/18 2:20p
   Received By: ALS 10/11/18 2:20
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) | 5 | X | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

November 1, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On October 29th, 5 samples were received by our laboratory and assigned our laboratory project number EV18100173. The project was identified as your Glenns Diesel. 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 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/1/2018
		ALS JOB#:	EV18100173
		ALS SAMPLE#:	EV18100173-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/29/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/26/2018 11:40:00 AM
CLIENT SAMPLE ID	102618-18	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	10/30/2018	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	10/30/2018	EBS
Cadmium	EPA-6020	**0.17**	0.10	1	MG/KG	10/31/2018	RAL
Lead	EPA-6020	**13**	0.10	1	MG/KG	10/31/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**89.3**	10/30/2018	EBS

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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/1/2018
		ALS JOB#:	EV18100173
		ALS SAMPLE#:	EV18100173-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/29/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/26/2018 11:42:00 AM
CLIENT SAMPLE ID	102618-19	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND- F2	29	1	MG/KG	10/30/2018	EBS
TPH-Oil Range	NWTPH-DX	**81**	50	1	MG/KG	10/30/2018	EBS
Cadmium	EPA-6020	**0.28**	0.10	1	MG/KG	10/31/2018	RAL
Lead	EPA-6020	**19**	0.10	1	MG/KG	10/31/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**88.1**	10/30/2018	EBS

F2 - Reporting limit for compound raised due to low percent solids.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/1/2018 EV18100173 EV18100173-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/29/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/26/2018 11:45:00 AM
CLIENT SAMPLE ID	102618-20	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	10/30/2018	EBS
TPH-Oil Range	NWTPH-DX	**57**	50	1	MG/KG	10/30/2018	EBS
Cadmium	EPA-6020	**0.17**	0.10	1	MG/KG	10/31/2018	RAL
Lead	EPA-6020	**14**	0.10	1	MG/KG	10/31/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**86.7**	10/30/2018	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/1/2018 EV18100173 EV18100173-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/29/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/26/2018 12:00:00 PM
CLIENT SAMPLE ID	102618-21	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**4.1**	0.10	1	MG/KG	10/31/2018	RAL
Lead	EPA-6020	**140**	0.10	1	MG/KG	10/31/2018	RAL

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ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/1/2018 EV18100173 EV18100173-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	10/29/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	10/26/2018 12:10:00 PM
CLIENT SAMPLE ID	102618-22	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.4**	0.10	1	MG/KG	10/31/2018	RAL
Lead	EPA-6020	**120**	0.10	1	MG/KG	10/31/2018	RAL

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227

CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Glenns Diesel

DATE: 11/1/2018
ALS SDG#: EV18100173
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-103018S - Batch 134077 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	10/30/2018	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	10/30/2018	EBS

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

MB-103018S - Batch 134123 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	MG/KG	0.10	10/31/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	10/31/2018	RAL

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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/1/2018
		ALS SDG#:	EV18100173
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 134077 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**94.1**			75.5	122.1	10/30/2018	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**96.9**	**3**		75.5	122.1	10/30/2018	EBS

ALS Test Batch ID: 134123 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Cadmium - BS	EPA-6020	**105**			80	120	10/31/2018	RAL
Cadmium - BSD	EPA-6020	**107**	**2**		80	120	10/31/2018	RAL
Lead - BS	EPA-6020	**103**			80	120	10/31/2018	RAL
Lead - BSD	EPA-6020	**107**	**3**		80	120	10/31/2018	RAL

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS SDG#: WDOE ACCREDITATION:	11/1/2018 EV18100173 C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 134077 - Soil
Parent Sample: 102618-20

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	PARENT SAMPLE RESULT	RESULT	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - MS	NWTPH-DX	**90.4**			109	18	**117**	75.5	122.1	10/30/2018	EBS

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1810017 3

Date 10/29/18 Page 1 Of 1

PROJECT ID:	Glenns Diesel
REPORT TO COMPANY:	Shalom Group
PROJECT MANAGER:	Kim Ninnemann
ADDRESS:	P. Box 2546
	Bellingham WA 98227
PHONE: 360 714 9409	P.O. #: Glenns Diesel
E-MAIL:	kime shalom group. net
INVOICE TO COMPANY:	
ATTENTION:	Same as above
ADDRESS:	

ANALYSIS REQUESTED

OTHER (Specify): Lead, Cadmium

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 ☐	OTHER						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 102618-18	10/24/18	11:40	Soil	1		X														X							1	
2. 102618-19		11:42		2		X														X							1	
3. 102618-20		11:45		3		X														X							1	
4. 102618-21		12:0.		4																X							1	
5. 102611-22	↓	12:10	↓	5																X							1	
6.																												
7.																												
8.																												
9.																												
10.																												

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Kim Shalom Group 10/29/18 11:05
   Received By: Isaac Ninnemann 10/29/18 11:05
2. Relinquished By: Isaac Ninnemann 10/29/18 12:34
   Received By: ALS 10/29/18 12:34

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard | [X] | [X] | [2] | [1] | [SAME DAY]

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

OTHER: Specify: _____

*Turnaround request less than standard may incur Rush Charges

November 21, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On November 16th, 5 samples were received by our laboratory and assigned our laboratory project number EV18110115. The project was identified as your Glenn's Diesel. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2018 EV18110115 EV18110115-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/16/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	11/16/2018 10:35:00 AM
CLIENT SAMPLE ID	111618-23	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.25**	0.10	1	MG/KG	11/21/2018	RAL
Lead	EPA-6020	**70**	0.10	1	MG/KG	11/21/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2018 EV18110115 EV18110115-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/16/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	11/16/2018 11:55:00 AM
CLIENT SAMPLE ID	111618-24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.15**	0.10	1	MG/KG	11/21/2018	RAL
Lead	EPA-6020	**19**	0.10	1	MG/KG	11/21/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2018 EV18110115 EV18110115-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/16/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	11/16/2018 10:50:00 AM
CLIENT SAMPLE ID	111618-25	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.3**	0.10	1	MG/KG	11/21/2018	RAL
Lead	EPA-6020	**61**	0.10	1	MG/KG	11/21/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2018 EV18110115 EV18110115-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/16/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	11/16/2018 12:05:00 PM
CLIENT SAMPLE ID	111618-26	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.9**	0.10	1	MG/KG	11/21/2018	RAL
Lead	EPA-6020	**310**	0.10	1	MG/KG	11/21/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2018 EV18110115 EV18110115-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/16/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	11/16/2018 12:20:00 PM
CLIENT SAMPLE ID	111618-27	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**3.6**	0.10	1	MG/KG	11/21/2018	RAL
Lead	EPA-6020	**160**	0.10	1	MG/KG	11/21/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/21/2018
		ALS SDG#:	EV18110115
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY BLANK RESULTS

MB-112018S - Batch 134889 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	MG/KG	0.10	11/21/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	11/21/2018	RAL

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/21/2018
		ALS SDG#:	EV18110115
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 134889 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Cadmium - BS	EPA-6020	**105**			80	120	11/21/2018	RAL
Cadmium - BSD	EPA-6020	**106**	**1**		80	120	11/21/2018	RAL
Lead - BS	EPA-6020	**104**			80	120	11/21/2018	RAL
Lead - BSD	EPA-6020	**103**	**1**		80	120	11/21/2018	RAL

APPROVED BY

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
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1811015

Date 11/16/18 Page 1 Of 1

PROJECT ID:	Mann Diesel
REPORT TO COMPANY:	Stratum Group
PROJECT MANAGER:	Kim Nineman
ADDRESS:	PO Box 2516
	Bellingham, WA 98227
PHONE:	360 714-9409 FAX: -
P.O. #:	Mann's Diesel E-MAIL: kim@stratumgroup.net
INVOICE TO COMPANY:	
ATTENTION:	Same as above
ADDRESS:	

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ 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 ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify): lead, cadmium	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 111618-23	11/16/18	10:35	Soil	1															X	1	
2. 111618-24	↓	11:55	↓	2															X	1	
3. 111618-25		10:50		3															X	1	
4. 111618-26		12:05		4															X	1	
5. 111618-27	↓	12:20	↓	5															X	1	
6.																					
7.																					
8.																					
9.																					
10.																					

SPECIAL INSTRUCTIONS * rush → 2 days

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Kim Stratum Group 11/16/18 4:55
   Received By: ALS 11/16/18 4:55
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

November 30, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On November 28th, 7 samples were received by our laboratory and assigned our laboratory project number EV18110161. The project was identified as your Glenns Diesel. 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

Glen Perry
Technical Manager

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:05:00 AM
CLIENT SAMPLE ID	112818-28	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.21**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**46**	0.10	1	MG/KG	11/29/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:25:00 AM
CLIENT SAMPLE ID	112818-29	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.40**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**75**	0.10	1	MG/KG	11/29/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:40:00 AM
CLIENT SAMPLE ID	112818-30	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.26**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**64**	0.10	1	MG/KG	11/29/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:10:00 AM
CLIENT SAMPLE ID	112818-31	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.75**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**50**	0.10	1	MG/KG	11/29/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:15:00 AM
CLIENT SAMPLE ID	112818-32	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**1.1**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**70**	0.10	1	MG/KG	11/29/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-06
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:30:00 AM
CLIENT SAMPLE ID	112818-33	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**4.2**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**180**	0.10	1	MG/KG	11/29/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2018 EV18110161 EV18110161-07
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	11/28/2018
CLIENT PROJECT:	Glenns Diesel	COLLECTION DATE:	11/28/2018 10:50:00 AM
CLIENT SAMPLE ID	112818-34	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.6**	0.10	1	MG/KG	11/29/2018	RAL
Lead	EPA-6020	**110**	0.10	1	MG/KG	11/29/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/30/2018
		ALS SDG#:	EV18110161
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

LABORATORY BLANK RESULTS

MB-112918S - Batch 135095 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	MG/KG	0.10	11/29/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	11/29/2018	RAL

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	11/30/2018
		ALS SDG#:	EV18110161
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenns Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 135095 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Cadmium - BS	EPA-6020	**110**			80	120	11/29/2018	RAL
Cadmium - BSD	EPA-6020	**113**	**2**		80	120	11/29/2018	RAL
Lead - BS	EPA-6020	**105**			80	120	11/29/2018	RAL
Lead - BSD	EPA-6020	**107**	**2**		80	120	11/29/2018	RAL

APPROVED BY

Technical Manager

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
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1811016 1

Date 11/28/18 Page 1 Of 1

PROJECT ID:	Glenns Diesel
REPORT TO COMPANY:	Stratum Group
PROJECT MANAGER:	Kim Nineman
ADDRESS:	P. Box 2546
	Bellingham, WA 98227
PHONE:	360 714 9409 P.O. #: Glenns Diesel
E-MAIL:	kim e Stratumgroup.net
INVOICE TO COMPANY:	
ATTENTION:	Same as above
ADDRESS:	

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. 112818-28	11/28/18	10:05	Soil	1
2. 112818-29		10:25		2
3. 112818-30		10:40		3
4. 112818-31		10:10		4
5. 112818-32		10:15		5
6. 112818-33		10:30		6
7. 112818-34	↓	10:50	↓	7
8.				
9.				
10.				

ANALYSIS REQUESTED

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 ☐

OTHER (Specify)

Cadmium, Lead								NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
X								1	
X								1	
X								1	
X								1	
X								1	
X								1	
X								1	

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Kim Stratum Group 11/29/18 12:10p
   Received By: Hall Hunt, ALS, 11/28/18, 12:10p.m
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

December 10, 2018

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On December 5th, 6 samples were received by our laboratory and assigned our laboratory project number EV18120021. The project was identified as your Glenn's Diesel. 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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-01
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 12:05:00 PM
CLIENT SAMPLE ID	120518-35	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**1.1**	0.10	1	MG/KG	12/06/2018	RAL
Lead	EPA-6020	**42**	0.10	1	MG/KG	12/06/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-02
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 12:40:00 PM
CLIENT SAMPLE ID	120518-36	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.30**	0.10	1	MG/KG	12/06/2018	RAL
Lead	EPA-6020	**23**	0.10	1	MG/KG	12/06/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-03
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 12:50:00 PM
CLIENT SAMPLE ID	120518-37	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.2**	0.10	1	MG/KG	12/06/2018	RAL
Lead	EPA-6020	**60**	0.10	1	MG/KG	12/06/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-04
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 1:10:00 PM
CLIENT SAMPLE ID	120518-38	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.44**	0.10	1	MG/KG	12/07/2018	RAL
Lead	EPA-6020	**29**	0.10	1	MG/KG	12/07/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-05
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 1:20:00 PM
CLIENT SAMPLE ID	120518-39	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**2.0**	0.10	1	MG/KG	12/06/2018	RAL
Lead	EPA-6020	**62**	0.10	1	MG/KG	12/06/2018	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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE: ALS JOB#: ALS SAMPLE#:	12/10/2018 EV18120021 EV18120021-06
CLIENT CONTACT:	Kim Ninnemann	DATE RECEIVED:	12/05/2018
CLIENT PROJECT:	Glenn's Diesel	COLLECTION DATE:	12/5/2018 1:25:00 PM
CLIENT SAMPLE ID	120518-40	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	**0.22**	0.10	1	MG/KG	12/06/2018	RAL
Lead	EPA-6020	**61**	0.10	1	MG/KG	12/06/2018	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

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	12/10/2018
		ALS SDG#:	EV18120021
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY BLANK RESULTS

MB-120618S - Batch 135332 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	MG/KG	0.10	12/06/2018	RAL
Lead	EPA-6020	U	MG/KG	0.10	12/06/2018	RAL

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

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:	Stratum Group P.O. Box 2546 Bellingham, WA 98227	DATE:	12/10/2018
		ALS SDG#:	EV18120021
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Kim Ninnemann		
CLIENT PROJECT:	Glenn's Diesel		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 135332 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Cadmium - BS	EPA-6020	**100**			80	120	12/06/2018	RAL
Cadmium - BSD	EPA-6020	**105**	**5**		80	120	12/06/2018	RAL
Lead - BS	EPA-6020	**97.8**			80	120	12/06/2018	RAL
Lead - BSD	EPA-6020	**102**	**4**		80	120	12/06/2018	RAL

APPROVED BY

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
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV18120021

Date 12/5/18 Page 1 Of 1

PROJECT ID: Glenns Diesel
REPORT TO COMPANY: Stratum Group
PROJECT MANAGER: Kim Nineham
ADDRESS: Po Box 2546
Bellingham WA 98227
PHONE: 360 714-9489 P.O. #: Glenns Diesel
E-MAIL: Kim@Stratumgroup.net
INVOICE TO COMPANY:
ATTENTION: Same as above
ADDRESS:

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 ☐	OTHER (Specify): Cadmium, Lead	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 120518-35	12/5/18	12:05	Soil	1															X	1	
2. 120518-36		12:40		2															X	1	
3. 120518-37		12:50		3															X	1	
4. 120518-38		13:10		4															X	1	
5. 120518-39		13:20		5															X	1	
6. 120518-40		13:25		6															X	1	
7.																					
8.																					
9.																					
10.																					

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Stratum Group 12/5/18 15:30
   Received By: Isaac Jim 12/5/18 15:30
2. Relinquished By: Isaac Jim 12/5/18 16:30
   Received By: Brad Hunt, ALS, 12/5/18, 16:30

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

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	970277	

WEIGHMASTER: IN - Kim L. OUT - JAMIE B.

DATE/TIME IN	DATE/TIME OUT
10/25/18 10:26 am	10/25/18 10:43 an

VEHICLE	CONTAINER
01/BYK	

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 58,140 NET TONS 14.67
SCALE OUT TARE WEIGHT 28,800 NET WEIGHT 29,340

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.67	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	970371	

WEIGHMASTER: Karyn B.

DATE/TIME IN	DATE/TIME OUT
10/29/18 12:19 pm	10/29/18 12:30 pm

VEHICLE	CONTAINER
01/BYK	

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 57,640 NET TONS 13.63
SCALE OUT TARE WEIGHT 30,380 NET WEIGHT 27,260

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
13.63	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE 01	TICKET # 971170	CELL
WEIGHMASTER	Karyn B.	
DATE/TIME IN 11/28/18 11:15 am		DATE/TIME OUT 11/28/18 11:26 am
VEHICLE SOIL		CONTAINER
REFERENCE 01 BYK		
BILL OF LADING		

SCALE IN GROSS WEIGHT 61,800 NET TONS 16.46
SCALE OUT TARE WEIGHT 28,880 NET WEIGHT 32,920

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.46	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____

E
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

STOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE 01	TICKET # 971480	CELL
WEIGHMASTER	IN - Florence D. OUT - Karyn B.	
DATE/TIME IN 12/6/18 11:41 am		DATE/TIME OUT 12/6/18 12:06 pm
VEHICLE 01/BYK		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 60,300 NET TONS 15.75
SCALE OUT TARE WEIGHT 28,800 NET WEIGHT 31,500

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.75	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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S-F042UPR (07/12)

SIGNATURE _____

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE 01	TICKET # 971481	CELL
WEIGHMASTER	IN - JAMIE B. OUT - Karyn B.	
DATE/TIME IN 12/6/18 12:24 pm		DATE/TIME OUT 12/6/18 12:31 pm
VEHICLE 1 MIKES		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 53,520 NET TONS 14.59
SCALE OUT TARE WEIGHT 24,340 NET WEIGHT 29,180

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.59	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971504	

WEIGHMASTER: Kelly F.

DATE/TIME IN: 12/7/18 6:08 am
DATE/TIME OUT: 12/7/18 6:31 am

VEHICLE: 01/BYK
CONTAINER:
REFERENCE:
BILL OF LADING:

SCALE IN GROSS WEIGHT 61,280 NET TONS 16.33
SCALE OUT TARE WEIGHT 28,620 NET WEIGHT 32,660

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.33	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971505	

WEIGHMASTER: Kelly F.

DATE/TIME IN: 12/7/18 6:11 am
DATE/TIME OUT: 12/7/18 6:34 am

VEHICLE: 1 MIKES
CONTAINER:
REFERENCE:
BILL OF LADING:

SCALE IN GROSS WEIGHT 54,040 NET TONS 14.95
SCALE OUT TARE WEIGHT 24,140 NET WEIGHT 29,900

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.95	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971506	

WEIGHMASTER: IN - JAMIE B. OUT - Karyn B.

DATE/TIME IN	DATE/TIME OUT
12/7/18 10:40 am	12/7/18 10:48 am

VEHICLE	CONTAINER
1 MIKES	

REFERENCE:

BILL OF LADING:

SCALE IN GROSS WEIGHT 54,860 NET TONS 15.44
SCALE OUT TARE WEIGHT 23,980 NET WEIGHT 30,880

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.44	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971507	

WEIGHMASTER: IN - JAMIE B. OUT - Karyn B.

DATE/TIME IN	DATE/TIME OUT
12/7/18 11:04 am	12/7/18 11:10 am

VEHICLE	CONTAINER
01/BYK	

REFERENCE:

BILL OF LADING:

SCALE IN GROSS WEIGHT 61,020 NET TONS 16.12
SCALE OUT TARE WEIGHT 28,780 NET WEIGHT 32,240

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.12	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971571	

WEIGHMASTER: IN - Kim L. OUT - Stephanie A.

DATE/TIME IN	DATE/TIME OUT
12/11/18 6:25 am	12/11/18 6:30 am

VEHICLE	CONTAINER
1 MIKES	

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 55,120 NET TONS 15.43
SCALE OUT TARE WEIGHT 24,260 NET WEIGHT 30,860

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.43	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971583	

WEIGHMASTER: IN - Florence D. OUT - JAMIE B.

DATE/TIME IN	DATE/TIME OUT
12/11/18 10:39 am	12/11/18 10:50 an

VEHICLE	CONTAINER
01/BYK	

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 60,340 NET TONS 15.75
SCALE OUT TARE WEIGHT 28,840 NET WEIGHT 31,500

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.75	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971612	

WEIGHMASTER: Kelly F.

DATE/TIME IN	DATE/TIME OUT
12/12/18 6:23 am	12/12/18 6:29 am

VEHICLE	CONTAINER
1 MIKES	

REFERENCE:

BILL OF LADING:

SCALE IN GROSS WEIGHT 54,240 NET TONS 14.97
SCALE OUT TARE WEIGHT 24,300 NET WEIGHT 29,940

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.97	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971601	

WEIGHMASTER: IN - JAMIE B. OUT - Florence D.

DATE/TIME IN	DATE/TIME OUT
12/11/18 3:40 pm	12/11/18 3:44 pn

VEHICLE	CONTAINER
1 MIKES	

REFERENCE:

BILL OF LADING:

SCALE IN GROSS WEIGHT 54,920 NET TONS 15.21
SCALE OUT TARE WEIGHT 24,500 NET WEIGHT 30,420

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.21	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971616	

WEIGHMASTER: JAMIE B.
DATE/TIME IN: 12/12/18 10:15 am
DATE/TIME OUT: 12/12/18 10:29 am
VEHICLE: 1 MIKES
CONTAINER:
REFERENCE:
BILL OF LADING:

SCALE IN GROSS WEIGHT 57,420 NET TONS 16.63
SCALE OUT TARE WEIGHT 24,160 NET WEIGHT 33,260

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.63	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971613	

WEIGHMASTER: Kelly F.
DATE/TIME IN: 12/12/18 6:24 am
DATE/TIME OUT: 12/12/18 6:32 am
VEHICLE: 01/BYK
CONTAINER:
REFERENCE:
BILL OF LADING:

SCALE IN GROSS WEIGHT 60,160 NET TONS 15.79
SCALE OUT TARE WEIGHT 28,580 NET WEIGHT 31,580

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.79	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971619	
WEIGHMASTER	JAMIE B.	
DATE/TIME IN	12/12/18 10:37 am	DATE/TIME OUT 12/12/18 10:46 an
VEHICLE	01/BYK	CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 57,400 NET TONS 14.47
SCALE OUT TARE WEIGHT 28,460 NET WEIGHT 28,940

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.47	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER
333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971667	
WEIGHMASTER	IN - JAMIE B. OUT - Karyn B.	
DATE/TIME IN	12/13/18 10:16 am	DATE/TIME OUT 12/13/18 10:25 am
VEHICLE	01 BYK	CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 61,120 NET TONS 16.22
SCALE OUT TARE WEIGHT 28,680 NET WEIGHT 32,440

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.22	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971710	

WEIGHMASTER: IN - Karyn B. OUT - JAMIE B.

DATE/TIME IN	DATE/TIME OUT
12/13/18 2:36 pm	12/13/18 2:48 pm

VEHICLE	CONTAINER
01 BYK	

REFERENCE:

BILL OF LADING:

SCALE IN GROSS WEIGHT 48,780 NET TONS 10.10 INBOUND
SCALE OUT TARE WEIGHT 28,580 NET WEIGHT 20,200 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
10.10	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 333519
BYK Construction Inc.
PO Box 619
Sedro Woolley, WA 98284
Contract:LW-18285

SITE	TICKET #	CELL
01	971679	

WEIGHMASTER: IN - Florence D. OUT - Karyn B.

DATE/TIME IN	DATE/TIME OUT
12/13/18 11:27 am	12/13/18 11:36 am

VEHICLE	CONTAINER
SOIL	

REFERENCE: MIKES TRUCKING

BILL OF LADING:

SCALE IN GROSS WEIGHT 55,340 NET TONS 15.51 INBOUND
SCALE OUT TARE WEIGHT 24,320 NET WEIGHT 31,020 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.51	tn	SW-CONT SOIL Origin:MOUNT VERNON /SKAG 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE