



**Environmental Media Management Report  
Soil Removal and Sampling  
Auburn Way Properties  
3025 and 3109 Auburn Way N  
Auburn, WA 98002**

Prepared for:	M&M Ventures, LLC	R&E Investments, LLC
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December 4, 2017

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December 4, 2017  
G-Logics Project 01-1140-C

M&M Ventures, LLC  
Mr. Mike Scarff  
33 Knights Lane  
Friday Harbor, WA, 98250

R&E Investments, LLC  
Mr. Roger Vermazen  
16932 SE 354th Street  
Auburn, WA 98092

**Subject: Environmental Media Management Report  
Soil Removal and Sampling  
Auburn Way Properties  
3025 and 3109 Auburn Way N.  
Auburn, WA 98002**

Dear Mr. Scarff and Mr. Vermazen,

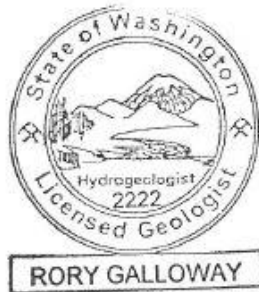
G-Logics is pleased to present this Environmental Media Management Report for the above-referenced property. This report describes the excavation and management of soil and groundwater containing petroleum hydrocarbons.

We trust the information presented in this document meets your needs at this time. Should you require additional information or have any questions, please contact us at your convenience. Thank you again for this opportunity to be of service.

Sincerely,  
**G-Logics, Inc.**

A handwritten signature in black ink, appearing to read "Rory Galloway".

Rory L. Galloway, LG, LHG  
Principal



A handwritten signature in black ink, appearing to read "Karis Vandehey".

Karis Vandehey, LG, WSLWD  
Staff Geologist

cc Greg Rairdon

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## **ATTACHMENTS**

Attachment:	Permission and Conditions for Use and Copying
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## **1.0 INTRODUCTION**

This Environmental Media Management Report discusses the actions taken to remove and dispose soils that contained elevated concentrations of petroleum hydrocarbons. This remedial excavation was performed at 3025 and 3109 Auburn Way North in Auburn, WA (Figure 1). The work described in this report was performed in accordance with our workplan dated September 20, 2017. The work consisted of the removal and the disposal of approximately 384 tons of petroleum-contaminated soil.

For this effort, G-Logics was retained by M&M Ventures, LLC (M&M Ventures) to coordinate with Clearcreek Contractor Inc. (selected by M&M Ventures) to perform the remedial work. G-Logics tasks included observing soil removal, technical assistance during the excavation of contaminated soil, as well as the collection and analysis of confirmation-soil samples. G-Logics also prepared this report, including, figures, data tables, and a summary of the findings.

## **2.0 BACKGROUND**

An automobile dealership and a service garage historically occupied the 3025 and 3109 properties since at least the early 1970s. As summarized in the G-Logics Phase I report dated July 18, 2017, a former 550-gallon used-oil underground storage tank (UST) was removed from west side of the former dealership building located on the 3025 property (Figure 2). Stemen Environmental, Inc. (SEI), as confirmed in a report dated December 20, 2012, conducted a Phase II exploration in this area. Soil and groundwater samples were collected on the 3025 property as well as the 3109 property (see Figure 2). None of the samples Stemen analyzed on the 3025 property contained concentrations of gasoline (GRO), diesel (DRO), oil-range hydrocarbons (ORO), or volatile organic compounds (VOCs) above MTCA Method A cleanup levels.

In the SEI Phase II exploration, GRO and ORO hydrocarbons were found exceeding the MTCA cleanup levels in soils along the southern property boundary of the 3109 property. SEI conducted additional sampling work on the 3109 property in June 2017 (see Figure 2). ORO in soil was detected but at concentrations below MTCA Method A cleanup levels. None of the analyzed groundwater samples contained concentrations of GRO, DRO, ORO,

or VOCs. However one groundwater sample contained lead the MTCA Method A cleanup level (15 ug/L).

To provide additional data for the former UST area, G-Logics conducted additional soil and groundwater sampling on the 3025 property in July 2017 (Figure 2). ORO hydrocarbons (understood to be associated with the former used-oil UST) were found exceeding the MTCA Method A cleanup level in soils along the northern property boundary (see G-Logics *Additional Soil and Groundwater Sampling* report dated August 13, 2017 for more information).

Based on the findings of the August 13 report, G-Logics recommended the excavation of petroleum-contaminated media (soil and groundwater) assumed to be associated with the UST.

During an onsite meeting August 28, 2017, as well as subsequent communications, Mr. Vermazen (3109 property owner) agreed that if petroleum-contaminated soil was found to extend onto his property, then the contaminated soils on his property should be removed. Accordingly, Mr Scarff agreed to extend the remedial excavation planned for the 3025 property onto the 3109 property.

## **2.1 Regulatory Background**

The property owners performed an independent remedial action for this site, in accordance with Washington Department of Ecology (Ecology) and Model Toxics Control Act (MTCA) regulations and guidance. Such remedial actions are specifically allowed by MTCA and encouraged by Ecology under the Voluntary Cleanup Program (VCP).

The rules that guide the cleanup process at sites within Washington are known as the Model Toxics Control Act (MTCA) Cleanup Regulation, which is administered by the Washington Department of Ecology (Ecology). MTCA “establishes administrative processes and standards to identify, investigate, and cleanup facilities where hazardous substances have come to be located” (WAC 173-340-100).

Soil cleanup levels promulgated under MTCA are often used as standards for deciding when additional investigation or cleanup is appropriate. For this project, we have compared analytical laboratory results to published MTCA Method A Cleanup Levels for soil.

### **3.0 REMEDIAL EXCAVATION AND SAMPLING**

G-Logics was on-site during the remedial excavation work to assist in the removal of soils containing elevated concentrations of petroleum hydrocarbons. During the excavation efforts, particular attention was given to visible evidence of staining, discoloration, odors, or other relevant factors indicative of a release of petroleum hydrocarbons. A photo-ionization detector (PID) was also used in the field to help delineate the extent of these soils. Additional field methods employed during this work can be reviewed in Appendix A. The soil excavation and sampling activity is discussed below.

#### **3.1 Remedial Excavation**

During the first week of November 2017, petroleum-contaminated media (soil and groundwater) was removed from an area spanning the property line. The approximate extent of the remedial excavation is shown on Figure 3.

Also shown on Figure 3 is the approximate location of a communications conduit linking the two properties. This conduit, not previously identified nor located prior to the excavation activities, was discovered at approximately 2.5 to 3 feet below ground surface (Photos 1-5). Soils were removed from around the conduit during the soil excavation and subsequent backfilling process without damaging or altering the line.

The excavated soils consisted of a structural-fill material from the surface to approximately 4 to 5.5 feet. The fill consisted of a silty sand and gravel mix. Fine-grain native soils were encountered below the fill, generally consisting of silt with clay to a depth of 8 to 9 feet, followed by silty, fine grain sand to the bottom of the excavation (Photo 1). Dimensional lumber and old car parts were observed occasionally in the fill deposits near the property line. Two concrete pipes, originating north of the property line appeared to terminate near the property line (Photo 2). Groundwater was encountered at approximately 8 feet below ground surface (Photo 2).

Petroleum-contaminated soil was found at depths ranging from approximately 5 feet to 10 feet below ground surface. A number of performance samples were collected near the property line and north of the property line to confirm and validate the need to extend the excavation onto the 3109 property. Soil was excavated both north and south of the property line until sidewall and bottom confirmation-soil samples exhibited petroleum concentrations below MTCA Method A Cleanup Levels. Sample locations, depths, and

analytical results are summarized on Table 1 and discussed in Section 3.2. Performance and confirmation-soil sample locations are illustrated on Figure 3. Analytical reports and chain of custody documentation is attached in Appendix B.

Due to limited space for stockpiling, all soils were excavated and loaded directly into trucks for offsite disposal (see Section 3.3). The final excavation depth ranged from approximately 6 feet deep in the southern portion of the excavation, slopping to approximately 10 feet deep just south of the property line. From approximately the property line, and throughout the northern portion of the excavation, depths ranged from approximately 9 to 10.5 feet deep.

### **3.2 Sample Analysis and Findings**

Soil samples were submitted to the on-site mobile-laboratory (Libby Environmental Inc) and analyzed for one or more of the following compounds: oil-range organics (ORO), diesel-range organics (DRO), gasoline-range organics (GRO), and BTEX (benzene, toluene, ethylbenzene and xylenes). A number of samples were submitted to Libby's fixed base lab to be analyzed for Arsenic. Two of these samples had detectable concentrations, but were below MTCA Method A Cleanup Levels (see Table 1).

Several laboratory-duplicate samples were analyzed for data-repeatability information. The detected concentrations were within acceptable limits for laboratory-repeatability information. The laboratory also conducted matrix spike, matrix-spike duplicate and method-blank analyses. Laboratory QA/QC information is included (with the laboratory report) in Appendix C.

### **3.3 Soil Disposal**

The soils removed from the two properties were transported off-site to Cowlitz County Landfill (CCL). The soils were reportedly disposed as PCS-4 (Petroleum Contaminated Class IV Soil). The total quantity of contaminated soil disposed, according to CCL's weight measurements, was 384.17 tons. Soil-disposal documentation is attached in Appendix C.

### **3.4 Water Collection and Disposal**

During the excavation, approximately 2,600 gallons of groundwater and rainwater were removed from the excavation and stored in poly tanks (Photo 3). Before the water was removed and disposed, G-Logics collected a sample of the containerized water for chemical analysis. The sample was submitted to Libby Environmental and analyzed for ORO, DRO, GRO, BTEX, and RCRA 8 Metals, as well as Priority Pollutant Metals, copper, nickel and zinc. All analytes were below MTCA Method A Cleanup Levels. Following analytical results, Clearcreek contracted with Emerald Services for the removal and proper disposal of the stored water. Analytical reports and chain of custody documentation for the collected water sample are attached in Appendix B. Water-disposal documentation is attached in Appendix C.

Efforts were made to remove as much groundwater from the open excavation as possible to address petroleum contaminants (above MTCA Method A Cleanup Levels) previously identified in groundwater samples collected from GLB-1 and GLB-7 (G-Logics *Additional Soil and Groundwater Sampling* report dated August 13, 2017).

### **3.5 Excavation Backfilling and Surface Restoration**

After the remedial excavation had been completed, 200 pounds of an oxygen-release compound (ORC Advanced) was added to groundwater in the excavation, as well as the backfill material near the groundwater interface (Photo 4). ORC was applied to assist in removing residual petroleum impacts in the groundwater. Clearcreek placed quarry spalls in the bottom portion of the excavation (Photo 5). “Gravel Borrow” and Type-17 also was used as fill materials (Photo 6). During the backfilling work, soil was compacted by Clearcreek for structural integrity. Finally, the parking lot surface was restored with asphalt.

## **4.0 CONCLUSIONS**

Petroleum contaminated soils and groundwater were removed through the remedial excavation. Analyzed confirmation-samples indicate that all petroleum-contaminated soils above MTCA Method A cleanup levels have been successfully removed from this area. ORC was added to the excavation to assist with the natural attenuation of residual petroleum impacts. With the completion of this work, M&M Ventures and R&E Investments have successfully addressed the petroleum-contaminated soils in this area of the two properties.

## 5.0 LIMITATIONS

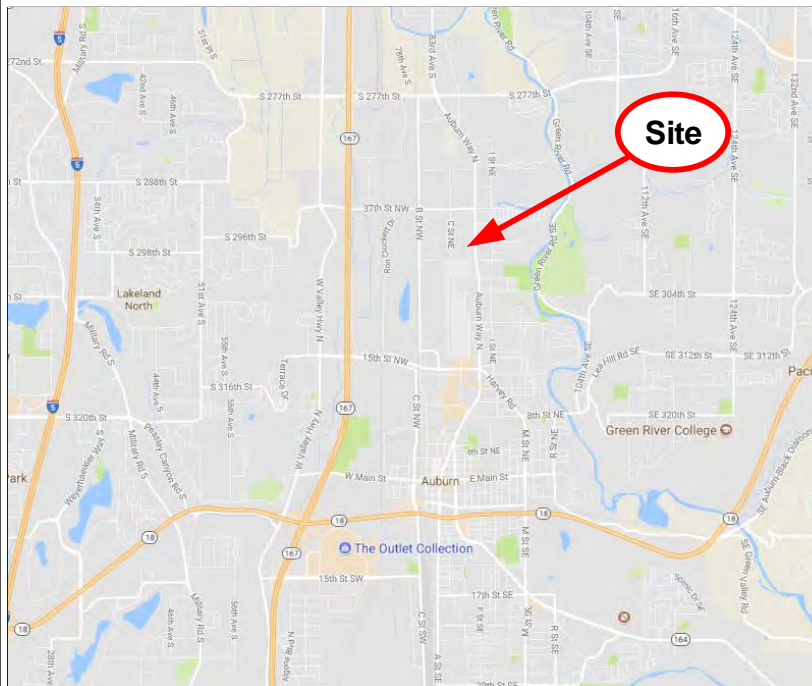
G-Logics has prepared this Environmental Media Management Report in accordance with the generally accepted standards of care that exist in the state of Washington at the time of this work. G-Logics should be notified for additional consultation if uncertainties need to be reduced beyond the level associated with this report.

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# FIGURES



*g-logics*

**Site Location Maps**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

**Figure**  
**1**



## Legend

--- Property Boundary



Existing Building



GLB-1

G-Logics Boring Locations



GL-MW-1

G-Logics Monitoring Well



S4

Soil Boring Locations (Stemen 2012)



R4

Approximate Soil Boring Locations  
(Stemen 2017) Based on G-Logics  
Field Measurements

GLB-1 \*

Grab Groundwater Sample



G-Logics Boring, Refusal at 3'



Inferred ORO Concentration  
>MTCA Cleanup Level in Soil



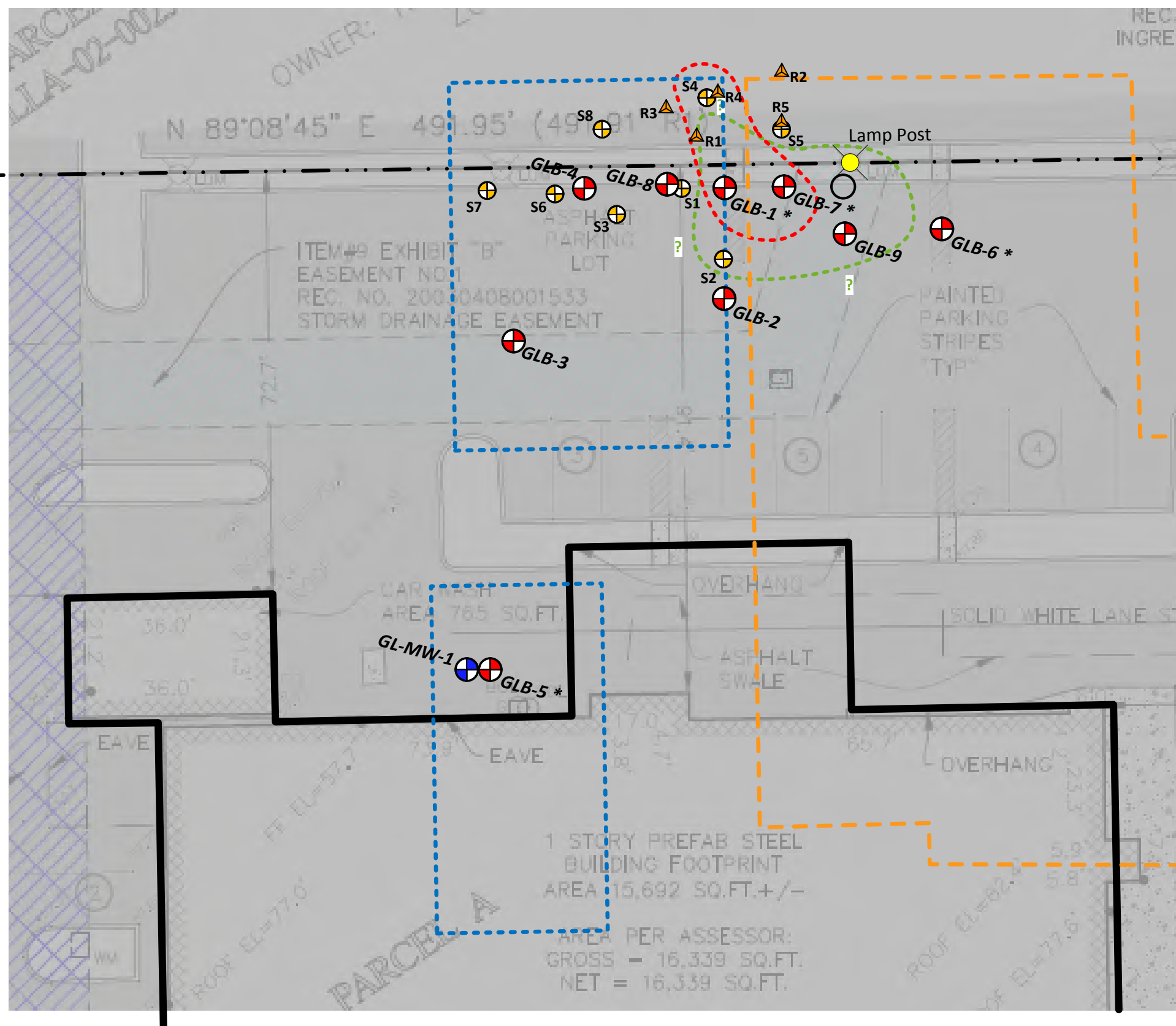
Inferred ORO Concentration  
>MTCA Cleanup Level in Water



Former Auto Dealership, 1990



1998 and 2000 Bldg. Additions



**Exploration Locations and Approximate Impacted Areas**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Figure  
2












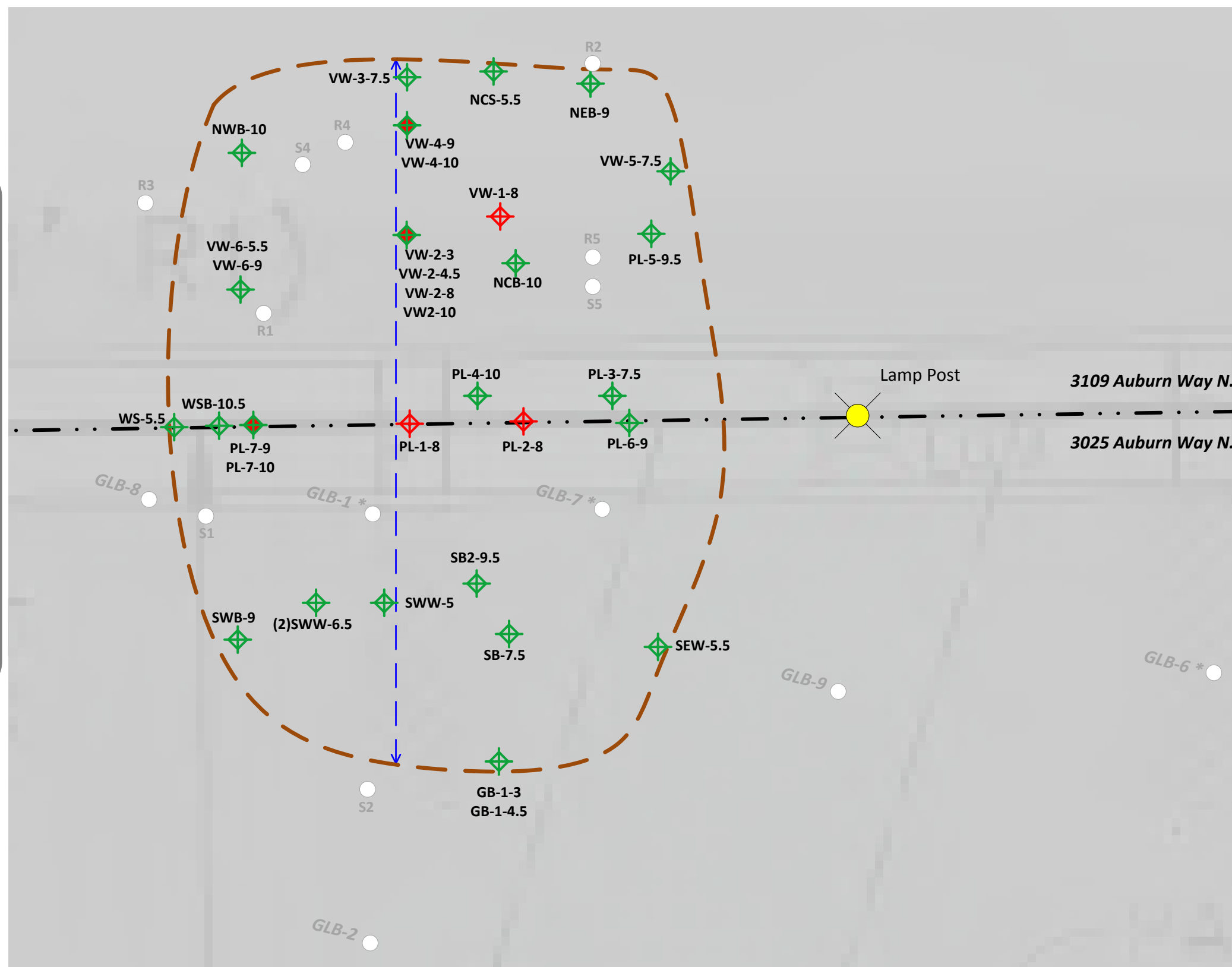
Approximate Drawing Scale: 1" = 20'  
0 ft. 12 ft. 20 ft. 40 ft.

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



## Legend

-  **S4** Soil Boring (Stemen, 2012 and 2017)
-  **GLB-2** Soil Boring (G-Logics, 2017)
-  **GLB-1\*** Grab Groundwater Sample
-  **PL-4-10** Excavation-Confirmation Soil Sample Location, Results Below MTCA Method A Cleanup Level
-  **PL-1-8** Excavation-Performance Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)
-  **PL-7-10** Excavation-Performance Soil Sample Location, Results Above MTCA Method A Cleanup Level, Soil Subsequently Removed And Confirmation Sample Collected (Results Below Cleanup Level).
-  Property Line
-  Black ABS Pipe ("4") Containing Communication Lines Between Dealerships (Approximate Location)
-  Area of Excavation



Approximate Drawing Scale: 1" = 5'  
0 ft. 3 ft. 5 ft. 10 ft.

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

**Excavation-Sampling Locations**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Figure  
3

# TABLES

**TABLE 1**  
**Soil Sample Analyses (1)**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Heavy Oil Range Organics (SGT)	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic
<b>MTCA Cleanup Level (2)(3)</b>				NA	100(a)/30(b)	2,000	2,000	2,000	0.03	7	6	9	20
(units in mg/kg )													
<b>Stemen Environmental Inc.</b>													
<b>December, 2012</b>													
<b>S1</b>	12/12/2012	S1-8	8	---	<10	<50	<100	---	---	---	---	---	---
		S1-12	12	---	<10	<50	<100	---	---	---	---	---	---
<b>S2</b>	12/12/2012	S2-9	9	---	<10	<50	<b>120</b>	---	---	---	---	---	---
<b>S3</b>	12/12/2012	S3-9	9	---	<10	<50	<100	---	---	---	---	---	---
<b>S4</b>	12/12/2012	S4-8	8	---	<b>500</b>	<50	<b>3,800</b>	---	---	---	---	---	---
<b>S5</b>	12/12/2012	S5-9	9	---	<10	<50	<100	---	---	---	---	---	---
<b>S6</b>	12/12/2012	S6-9	9	---	<10	<50	<100	---	---	---	---	---	---
<b>S7</b>	12/12/2012	S7-8	8	---	<10	<50	<100	---	---	---	---	---	---
<b>S8</b>	12/12/2012	S8-8	8	---	<10	<50	<100	---	---	---	---	---	---
<b>Stemen Environmental Inc.</b>													
<b>June, 2017</b>													
<b>R1</b>	6/2/2017	R1-5	5	---	<10	<50	<b>710</b>	---	<0.02	<0.05	<0.05	<0.15	---
		R1-8	8	---	<10	<50	<b>210</b>	---	<0.02	<0.05	<0.05	<0.15	---
<b>R2</b>	6/2/2017	R2-5	5	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
		R2-8	8	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
<b>R3</b>	6/2/2017	R3-5	5	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
		R3-8	8	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---

**TABLE 1**  
**Soil Sample Analyses (1)**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)										
				PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Heavy Oil Range Organics (SGT)	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic
MTCA Cleanup Level (2)(3)				NA	100(a)/30(b)	2,000	2,000	2,000	0.03	7	6	9	20
(units in mg/kg )													
R4	6/2/2017	R4-5	5	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
		R4-8	8	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
R5	6/2/2017	R5-5	5	---	<10	67	110	---	<0.02	<0.05	<0.05	<0.15	---
		R5-10	10	---	<10	<50	<100	---	<0.02	<0.05	<0.05	<0.15	---
G-Logics													
July, 2017													
GLB-1	7/21/2017	GLB-1-5	5	8.4	<6.10	<26.2	6,110	5,990	<0.0244	<0.0244	<0.0305	<0.0610	15.2
		GLB-1-10	10	0.4	---	<23.8	<59.5	---	---	---	---	---	---
		GLB-1-14	14	0.3	---	---	---	---	---	---	---	---	---
GLB-2	7/21/2017	GLB-2-4	4	1.4	---	<24.3	<60.7	---	---	---	---	---	---
		GLB-2-8	8	0.3	---	---	---	---	---	---	---	---	---
		GLB-2-111	11	0.3	---	---	---	---	---	---	---	---	---
GLB-3	7/21/2017	GLB-3-4	4	0.8	---	---	---	---	---	---	---	---	---
		GLB-3-8	8	0.5	---	<24.3	<60.9	---	---	---	---	---	---
		GLB-3-11	11	0.4	---	---	---	---	---	---	---	---	---
GLB-4	7/21/2017	GLB-4-4	4	0.5	---	---	---	---	---	---	---	---	---
		GLB-4-8	8	0.3	---	<23.9	<59.9	---	---	---	---	---	---
		GLB-4-11	11	0.5	---	---	---	---	---	---	---	---	---
GLB-5	7/21/2017	GLB-5-8	8	0.4	<5.91	<25.3	<63.4	---	<0.0237	<0.0237	<0.0296	<0.0591	---
		GLB-5-12	12	0.4	---	---	---	---	---	---	---	---	---
GLB-6	7/21/2017	GLB-6-4	4	0.6	---	---	---	---	---	---	---	---	---
		GLB-6-8	8	0.5	<5.60	<25.3	<63.2	---	<0.0224	<0.0224	<0.0280	<0.0560	---
		GLB-6-11	11	0.4	---	---	---	---	---	---	---	---	---

**TABLE 1**  
**Soil Sample Analyses (1)**  
**Auburn Way Properties**  
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**Auburn, Washington**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Heavy Oil Range Organics (SGT)	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic
<b>MTCA Cleanup Level (2)(3)</b>				NA	100(a)/30(b)	2,000	2,000	2,000	0.03	7	6	9	20
(units in mg/kg )													
<b>GLB-7</b>	7/21/2017	GLB-7-6	6	5.5	<5.70	<23.8	<b>2,160</b>	<b>2,500</b>	<0.0228	<0.0228	<0.0285	<b>0.0468</b>	---
		GLB-7-9	9	8.3	<b>24.3</b>	<26.1	<b>2,900</b>	<b>3,250</b>	<0.0241	<0.0241	<0.0302	<0.0604	<b>3.47</b>
		GLB-7-11	11	---	---	<22.3	<55.7	---	---	---	---	---	---
<b>GLB-8</b>	7/21/2017	GLB-8-9	9	---	---	<22.3	<55.7	---	---	---	---	---	---
<b>GLB-9</b>	7/21/2017	GLB-9-9	9	---	---	<26.9	<67.2	---	---	---	---	---	---
<b>G-Logics</b>													
<b>Soil Excavation, November 2017</b>													
<b>SWW</b>	11/6/2017	SWW-5	5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>(2)SWW</b>	11/7/2017	(2)SWW-6.5	6.5	---	---	<50	<250	---	---	---	---	---	---
<b>SWB</b>	11/9/2017	SWB-9	9	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>SEW</b>	11/6/2017	SEW-5.5	5.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>NWB</b>	11/8/2017	NWB-10	10	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>NCS</b>	11/8/2017	NCS-5.5	5.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>NEB</b>	11/8/2017	NEB-9	9	---	---	<50	<250	---	---	---	---	---	---
<b>WS</b>	11/9/2017	WS-5.5	5.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>WSB</b>	11/9/2017	WSB-10.5	10.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>GB-1</b>	11/6/2017	GB-1-3	3	---	---	---	---	---	---	---	---	---	<5.0
	11/6/2017	GB-1-4.5	4.5	---	---	---	---	---	---	---	---	---	<b>6.2</b>

**TABLE 1**  
**Soil Sample Analyses (1)**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Heavy Oil Range Organics (SGT)	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic
<b>MTCA Cleanup Level (2)(3)</b>				NA	100(a)/30(b)	2,000	2,000	2,000	0.03	7	6	9	20
(units in mg/kg )													
<b>SB</b>	11/6/2017	SB-7.5	7.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	<b>6.2</b>
<b>SB2</b>	11/9/2017	SB2-9.5	9.5	---	---	<50	<250	---	---	---	---	---	---
<b>PL-1</b>	11/7/2017	PL-1-8	8	---	---	<500	<b>12,200E</b>	---	---	---	---	---	---
<b>PL-2</b>	11/7/2017	PL-2-8	8	---	---	<500	<b>20,800</b>	---	---	---	---	---	---
<b>PL-3</b>	11/7/2017	PL-3-7.5	7.5	---	---	<50	<250	---	---	---	---	---	---
<b>PL-4</b>	11/7/2017	PL-4-10	10	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<b>0.17</b>	---
<b>PL-5</b>	11/7/2017	PL-5-9.5	9.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>PL-6</b>	11/7/2017	PL-6-9	9	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>PL-7</b>	11/8/2017	PL-7-9	9	---	---	<b>280</b>	<b>18,000E</b>	---	---	---	---	---	---
	11/8/2017	PL-7-10	10	---	---	<50	<b>1,650</b>	---	---	---	---	---	---
<b>VW-1</b>	11/7/2017	VW-1-8	8	---	---	<500	<b>4,390</b>	---	---	---	---	---	---
<b>NCB</b>	11/8/2017	NCB-10	10	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>VW-2</b>	11/7/2017	VW-2-3	3	---	---	---	---	---	---	---	---	---	<5.0
	11/7/2017	VW-2-4.5	4.5	---	---	---	---	---	---	---	---	---	<5.0
	11/7/2017	VW-2-8	8	---	---	<500	<b>17,200</b>	---	---	---	---	---	<5.0
	11/9/2017	VW2-10	10	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---

**TABLE 1**  
**Soil Sample Analyses (1)**  
**Auburn Way Properties**  
**3025 and 3109 Auburn Way North**  
**Auburn, Washington**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Heavy Oil Range Organics (SGT)	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic
<b>MTCA Cleanup Level (2)(3)</b>				NA	100(a)/30(b)	2,000	2,000	2,000	0.03	7	6	9	20
(units in mg/kg )													
<b>VW-3</b>	11/7/2017	VW-3-7.5	7.5	---	---	<50	<250	---	---	---	---	---	---
<b>VW-4</b>	11/7/2017	VW-4-9	9	---	---	<500	<b>22,700</b>	---	---	---	---	---	---
	11/8/2017	VW-4-10	10	---	---	<50	<250	---	---	---	---	---	---
<b>VW-5</b>	11/7/2017	VW-5-7.5	7.5	---	<10	<50	<250	---	<0.02	<0.10	<0.05	<0.15	---
<b>VW-6</b>	11/8/2017	VW-6-5.5	5.5	---	---	<50	<250	---	---	---	---	---	---
	11/8/2017	VW-6-9	9	---	---	<50	<250	---	---	---	---	---	---

Notes:

- (1) Refer to site diagram(s) for sampling locations. Refer to laboratory reports for analytical methods.
- (2) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, revised 2013. Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA. Refer to site diagram(s) for sampling locations.
- (3) Results For Cd, Cr, pb, PAHs, PCB, and VOCs can be found in G-Logics Additional Soil and Groundwater Sampling report dated August 13, 2017
- (a) Soil Cleanup Level For Gasoline With No Detectable Benzene In The Soil.
- (b) Soil Cleanup Level For Gasoline With Detectable Benzene In The Soil.
- Sample not analyzed.
- E** Indicates Reported Result Is An Estimate Because It Exceeds The Calibration Range
- <50.0 Sample concentration below laboratory reporting limit.
- 27** Bold number(s) indicates contaminant detected, below cleanup level.
- 160** Bold number(s) and yellow shading indicates concentration exceeds MTCA Cleanup Level.
- SGT** Silica Gel Treatment

# **SITE PHOTOGRAPHS**

Photo

1



**Description:** Looking west, a communications conduit (blue pin) was discovered approximately 2.5 to 3 feet below ground surface.

**Comments:** Approximately 4 to 5.5 feet of gravelly fill (red pin) was found on top of fine-grain native soils (green pin).

Photo

2



**Description:** Looking north, petroleum-contaminated soil was found at a depth of 5 to 10 feet with groundwater at approximately 8 feet.

**Comments:** Void space (red pin) left after the removal of a section of 12-inch diameter concrete pipe.

Photo

3



**Description:** Looking north, excavation dewatering.

**Comments:** 2,600 gallons of groundwater and rainwater were removed from the excavation and stored in a poly tank for off-site disposal.

Photo

4



**Description:** Looking north, the white powder is an oxygen-release compound (ORC Advanced).

**Comments:** ORC was added to the excavation to assist the attenuation of possible residual petroleum contaminants in groundwater.

Photo  
5



**Description:** Looking north, quarry spalls were added to the bottom of the excavation to just above groundwater level.

**Comments:** A section of fencing was used to support the communications conduit.

Photo  
6



**Description:** Looking southeast, geo-textile cloth was placed over quarry spalls, followed by "Gravel Borrow", then type-17 materials.

**Comments:** Wet weather prevented repaving until approximately three weeks following backfill of the excavation.

# APPENDIX A

## **FIELD SAMPLING METHODS**

G-Logics performed technical assistance and soil sampling during a remedial excavation conducted on the subject property. The sampling activities were conducted in general accordance with Washington Department of Ecology (Ecology) guidelines and regulations.

### **Underground Utility Clearance**

Before conducting the subsurface exploration, Clearcreek contacted a service that notifies public utilities of proposed excavation activity. Additionally, on-site private utilities were located by a private locating company to identify on-site utilities. Consequently, the below-grade utility locations were identified by marking their inferred location on the ground surface.

### **Quality Assurance Quality Control**

Quality Assurance/Quality Control (QA/QC) for the presented scope of work included generally accepted procedures for sample collection, storage, tracking, and documentation. All sampling equipment was washed and rinsed before the collection of the samples. All samples were labeled with a sample number, date, time, and sampler name, and were stored in an ice chest containing frozen “blue ice”. Appropriate chain-of-custody documentation was completed.

### **Excavation Soil Sampling**

A G-Logics employee performed the soil sampling work. The employee collected subsurface soil samples from the excavation at the depths specified in the attached analytical Tables and Figures. Because of various ground surface and soil conditions at sampling locations, one or more of the following techniques were used to collect soil samples.

- A clean spoon or trowel was used to expose undisturbed soil at a specific location of the excavation. A second clean spoon or trowel was used to collect and place soils into a glass laboratory jar and closed.
- To avoid entering an unshored excavation (or other potentially dangerous settings) the excavator equipment was used to collect a bucket of soil from

the sampling location and lift it out of the excavation. The above-described method was used to collect a sample from soils contained in the bucket.

- EPA Method 5035A was used for collection of samples to be analyzed for volatile constituents ((e.g., gasoline, BTEX, VOCs). Samples were collected from the soil core using an Easy Draw Syringe and Powerstop Handle. The soil plug was then extruded into a laboratory-supplied 40 ml VOA Vial containing methanol preservative.

The G-Logics employee reviewed soil samples for evidence of contamination, indicated by noticeable odor, visible staining, or discoloration in the soil. Occasionally a soil sample was placed into a plastic bag and the collected vapors were drawn through the photoionization detector (PID) for qualitative screening of VOCs.

Regardless of the sampling technique employed, all soil samples were labeled with a sample number, date, time, and sampler's name. Samples were either given to an on-site mobile laboratory or transported to an off-site lab. Samples transported to an off-site laboratory were stored in an ice chest containing frozen "blue ice". Appropriate chain-of-custody documentation was completed.

### **Excavation Water Sampling**

A G-Logics employee sampled water removed from the open excavation in accordance with the following protocol.

- Water samples were collected by lowering laboratory provided sample bottles into the top of the water-storage tank. The sample bottles were allowed to fill with water, and then were removed from the tank. Sample containers were open only as long as necessary to collect the samples.
- Sample bottles were labeled with a sample number, date, time, and sampler's name and stored in an ice chest containing frozen "blue ice". Chain-of-custody procedures were followed to document sample handling.

# **APPENDIX B**



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 13, 2017

Karis Vandehey  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Ms. Vandehey:

Please find enclosed the analytical data report for the Auburn Subaru Project located in Auburn, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110  
Fax: 360-352-4154

Client: G-Logics

Address:

City: State: Zip:

Phone: 425-391-6874 Fax:

Client Project # 01-1140C

Date: 11/7/17

Page: 1 of 1

Project Manager: HARIS VANDEHEE

Project Name: AUBURN SUBARU

Location: 3025 AUBURN WAY N. City, State: AUBURN, WASH.

Collector: HARIS VANDEHEE Date of Collection: 11/6+11/7/17

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Field Notes
1 SWW-5	5	1315	SOIL	JAR/VOA	X	X			X							11/6/17
2 SEW-5.5	5.5	1300	"	" / "	X	X			X							11/6/17
3 SB-7.5	7.5	1255	"	" / VOA	X	X			X							11/6/17
4 PL-1-8	8	0725	"	" / VOA					X							11/7/17
5 PL-2-8	8	0752	"	" / VOA					X							11/7/17
6 PL-3-7.5	7.5	0915	"	" / "					X							11/7/17
7 VW-1-8	8	0930	"	" / "					X							11/7/17
8 VW-2-8	8	1007	"	" / "					X							11/7/17
9 GB-1-4.5	4.5	1126	"	JAR					X							11/6/17
10 (2) SWW-6.5	6.5	1325	"	Jar / VOA					X							11/7/17
11 PL-4-10	10	1415	"	" "	X	X			X							11/7/17 24 hr TAT
12 VW-3-7.5	7.5	1450	"	" "					X							11/7/17 76
13 VW-4-9	9	1452	"	" "					X							11/7/17
14																
15																
16																
17																

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Sample Receipt			
Good Condition?	Y	N	
Temp.		°C	
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: ML

TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110  
Fax: 360-352-4154

Client: G-LOGICS

Address:

City: State: Zip:

Phone: 425-391-6874

Fax:

Client Project # 01-1140C

Date: 11/7/17

Page: 1 of 1

Project Manager: KAREE VANDIEHEY

Project Name: AUBURN SUBAREA

Location: City, State:

Collector: KAREE VANDIEHEY Date of Collection: 11/6 + 11/7/17

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Field Notes
1 <u>GB-1-3</u>	<u>3'</u>	<u>1125</u>	<u>SoEL</u>	<u>JAR</u>												<u>11/6/17</u>
2 <u>GB-1-4.5</u>	<u>4.5'</u>	<u>1126</u>	<u>"</u>	<u>JAR</u>												<u>11/6/17</u>
3 <u>SB-7.5</u>	<u>7.5'</u>	<u>1255</u>	<u>"</u>	<u>JAR</u>												<u>11/6/17</u>
4 <u>VW-2-8</u>	<u>8'</u>	<u>1067</u>	<u>"</u>	<u>"</u>												<u>11/7/17</u>
5 <u>VW-2-4.5</u>	<u>4.5'</u>	<u>1130</u>	<u>"</u>	<u>"</u>												<u>11/7/17</u>
6 <u>VW-2-3</u>	<u>3'</u>	<u>1130</u>	<u>"</u>	<u>"</u>												<u>11/7/17</u>
7																
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Relinquished by: [Signature] Date / Time: 1711 11/7/17 Received by: [Signature] Date / Time: 1711 11/7/17

## Sample Receipt

Good Condition? Y N

Temp. °C

Seals Intact? Y N N/A

Total Number of Containers

Remarks:

TAT: 24HR 48HR **5-DAY**

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - File, Pink - Originator

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171107-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	11/7/17	nd	nd	nd	nd	nd	93
LCS	11/7/17	96%	92%				97
SWW-5	11/7/17	nd	nd	nd	nd	nd	97
SWW-5 Dup	11/7/17	nd	nd	nd	nd	nd	87
SB-7.5	11/7/17	nd	nd	nd	nd	nd	88
SEW-5.5	11/7/17	nd	nd	nd	nd	nd	87
SEW-5.5 MS	11/7/17	87%	82%				82
SEW-5.5 MSD	11/7/17	85%	80%				80

Practical Quantitation Limit	0.02	0.10	0.05	0.15	10
------------------------------	------	------	------	------	----

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171107-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	11/10/17	nd	nd	nd	nd	nd	87
LCS	11/10/17	75%	91%				86
PL-4-10	11/10/17	nd	nd	nd	0.17	nd	92
L171109-5 MS	11/10/17	75%	81%				80
L171109-5 MSD	11/10/17	84%	87%				75
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Kodey Eley

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171107-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	11/7/17	100	nd	nd
SWW-5	11/7/17	117	nd	387
SEW-5.5	11/7/17	109	nd	270
SB-7.5	11/7/17	89	nd	nd
PL-1-8	11/7/17	105	nd	12200 E
PL-2-8	11/7/17	104	< 500	20800
PL-3-7.5	11/7/17	102	nd	1240
VW-1-8	11/7/17	101	< 500	4390
VW-1-8 Dup	11/7/17	98	< 500	4590
VW-2-8	11/7/17	115	< 500	17200
GB-1-4.5	11/7/17	105	nd	nd
(2) SWW-6.5	11/7/17	98	nd	nd
(2) SWW-6.5 Dup	11/7/17	92	nd	nd
PL-4-10	11/7/17	99	nd	nd
VW-3-7.5	11/7/17	104	nd	nd
VW-4-9	11/7/17	108	< 500	22700
Practical Quantitation Limit			50	250

"E" Indicates reported result is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171107-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Total Arsenic in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Arsenic (mg/kg)
Method Blank	11/11/17	nd
GB-1-3	11/11/17	nd
GB-1-4.5	11/11/17	6.2
SB-7.5	11/11/17	6.2
VW-2-8	11/11/17	nd
VW-2-4.5	11/11/17	nd
VW-2-3	11/11/17	nd
VW-2-3 Dup	11/11/17	nd
Practical Quantitation Limit		5.0

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171107-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## QA/QC for Total Arsenic in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Arsenic (% Recovery)
LCS	11/11/17	104%
VW-2-3 MS	11/11/17	103%
VW-2-3 MSD	11/11/17	118%
RPD	11/11/17	14%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Dirk Peterson



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 13, 2017

Karis Vandehey  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Ms. Vandehey:

Please find enclosed the analytical data report for the Auburn Subaru Project located in Auburn, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110  
Fax: 360-352-4154

Client: G-Logic

Address:

City: State: Zip:

Phone: 425-391-6874 Fax:

Client Project # 01-1140C

Date: 11/8/17

Page: 1 of 1

Project Manager: KARIS VANDENHEJ

Project Name: AUBURN SUBARU

Location: 3025 AUBURN WAY N City, State: Auburn WA

Collector: KARIS VANDENHEJ Date of Collection: 11/3/17 + 11/8

Email: Karisv@g-Logics.com



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Field Notes
1 PL-5-9.5	9.5	1515	SLT	DAR/VOL	X	X			X							11/7/17
2 VW-5-7.5	7.5	1518	SOIL	" "	X	X			X							11/7/17
3 PL-6-9	9	1550	SOIL	" "	X	X			X							11/7/17
4 PL-7-9	9	1120	"	" "					X							11/8/17
5 PL-7-10	10	1130	SOIL	" "					X							" "
6 VW-6-9	9	1150	"	" "					X							11/8/17
7 NWB-10	10	1200	"	" "	X	X			X							11/8/17
8 VW-4-10	10	1240	"	" "					X							11/8/17
9 NEB-10	10	1315	"	" "	X	X			X							11/8/17
10 NCS-5.5	5.5	1340	"	" "	X	X			X							11/8/17
11 VW-6-5.5	5.5	1405							X							11/8/17
12 NEB-9	9	1420			X	X			X							11/8/17
13																
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15																
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Relinquished by: [Signature] Date / Time: 1630 11/8/17 Received by: [Signature] Date / Time: 1630 11/8/17

## Sample Receipt

Good Condition? Y N

Temp. °C

Seals Intact? Y N N/A

Total Number of Containers

Remarks:

ML

TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171108-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	11/8/17	nd	nd	nd	nd	nd	97
LCS	11/8/17	109%	102%				98
PL-5-9.5	11/8/17	nd	nd	nd	nd	nd	98
VW-5-7.5	11/8/17	nd	nd	nd	nd	nd	97
PL-6-9	11/8/17	nd	nd	nd	nd	nd	98
PL-6-9 Dup	11/8/17	nd	nd	nd	nd	nd	97
NWB-10	11/8/17	nd	nd	nd	nd	nd	98
NCB-10	11/8/17	nd	nd	nd	nd	nd	97
NCS-5.5	11/8/17	nd	nd	nd	nd	nd	88
PL-5-9.5 MS	11/8/17	109%	101%				99
PL-5-9.5 MSD	11/8/17	106%	103%				99
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171108-40

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	11/8/17	108	nd	nd
PL-5-9.5	11/8/17	107	nd	nd
VW-5-7.5	11/8/17	91	nd	nd
PL-6-9	11/8/17	105	nd	nd
PL-6-9 Dup	11/8/17	89	nd	nd
PL-7-9	11/8/17	131	280	18800 E
PL-7-10	11/8/17	123	nd	1650
VW-6-9	11/8/17	130	nd	nd
NWB-10	11/8/17	129	nd	nd
VW-4-10	11/8/17	112	nd	nd
NCB-10	11/8/17	100	nd	nd
NCS-5.5	11/8/17	99	nd	nd
NCS-5.5 Dup	11/8/17	104	nd	nd
VW-6-5.5	11/8/17	103	nd	nd
NEB-9	11/8/17	129	nd	nd
Practical Quantitation Limit			50	250

"E" Indicates reported result is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 13, 2017

Karis Vandehey  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Ms. Vandehey:

Please find enclosed the analytical data report for the Auburn Subaru Project located in Auburn, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

## Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110

Fax: 360-352-4154

Client: G-LOGICS

Address:

City: State: Zip:

Phone: 425-391-6874

Fax:

Client Project # 01-1140-C

Date: 11/9/17

Page: 1 of 1


Project Manager: KARIS VANDERKAMP

Project Name: AUBURN SUBAREA

Location: 3025 Auburn Way N City, State: Auburn WA

Collector: KARIS V Date of Collection: 11/9/17

Email: KARISV@G-LOGICS.COM

																				
Sample Number	Depth	Time	Sample Type	Container Type		VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HC/D	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals			Field Notes	
1 SWB-9	9	0915	DM/VOL	SOEL		X	X			X										
2 WS-5.5	5.5	0920	SOEL	DM/VOL		X	X			X										
3 SB2-9.5	9.5	1000	"	"						X										
4 WSB-10.5	10.5	1015	"	"		X	X			X										
5 VWZ-10	10	1045	"	"		X	X			X										
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Relinquished by: [Signature] Date / Time: 11/9/17 1540

Received by: [Signature] Date / Time: 11/9/17 1540

Sample Receipt	
Good Condition?	<u>Y</u> N
Temp.	°C
Seals Intact?	<u>Y</u> N N/A
Total Number of Containers	<u>15</u>

Remarks:

TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT  
G-Logics  
Auburn, Washington  
Libby Project # L171109-5  
Client Project # 01-1140-C

4139 Libby Road NE  
Olympia, WA 98506  
Phone: (360) 352-2110  
FAX: (360) 352-4154  
Email: libbyenv@aol.com

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	11/10/17	nd	nd	nd	nd	nd	87
LCS	11/10/17	75%	91%				86
SWB-9	11/10/17	nd	nd	nd	nd	nd	89
WS-5.5	11/10/17	nd	nd	nd	nd	nd	88
WSB-10.5	11/10/17	nd	nd	nd	nd	nd	83
VW2-10	11/10/17	nd	nd	nd	nd	nd	87
VW2-10 Dup	11/10/17	nd	nd	nd	nd	nd	86
VW2-10 MS	11/10/17	75%	81%				80
VW2-10 MSD	11/10/17	84%	87%				75

Practical Quantitation Limit	0.02	0.10	0.05	0.15	10
------------------------------	------	------	------	------	----

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Kodey Eley

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-5

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	11/10/17	104	nd	nd
SWB-9	11/10/17	108	nd	nd
WS-5.5	11/10/17	112	nd	nd
SB2-9.5	11/10/17	104	nd	nd
WSB-10.5	11/10/17	95	nd	nd
VW2-10	11/10/17	106	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Vanessa Cheang



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 13, 2017

Karis Vandehey  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Ms. Vandehey:

Please find enclosed the analytical data report for the Auburn Subaru Project located in Auburn, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110  
Fax: 360-352-4154

Client: G-LABELL

Address:

City: State: Zip:

Phone: 425-391-6874 Fax:

Client Project # 01-1140-C

Date: 11/9/17 Page: 1 of 1


Project Manager: KARIS VANDERHAY

Project Name: AUBURN SUBAREA

Location: 3025 AUBURN WAY N. City, State: AUBURN WA

Collector: KARIS V Date of Collection: 11/9/17

Email: KARISV@G-Logics.com

Sample Number	Depth	Time	Sample Type	Container Type													Field Notes
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HC/D	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	
1 <u>EXCAVATION</u>		<u>1215</u>	<u>H2O</u>	<u>VOAS, AMBER &amp; POLY'S</u>	<u>X</u>	<u>X</u>		<u>X</u>							<u>X</u>	<u>X</u>	
2																	
3																	
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15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>11/9/17 1540</u>	Received by: <u>[Signature]</u>	Date / Time: <u>11/9/17 1540</u>	<b>Sample Receipt</b> Good Condition? <u>(Y)</u> N Temp. °C Seals Intact? <u>(Y)</u> N N/A Total Number of Containers <u>8</u>	Remarks: <u>HOLD PCB+PAH</u> <u>HOLD DISOLVED</u> TAT: 24HR <u>(48HR)</u> 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - File, Pink - Originator

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT  
G-Logics  
Auburn, Washington  
Libby Project # L171109-6  
Client Project # 01-1140-C

4139 Libby Road NE  
Olympia, WA 98506  
Phone: (360) 352-2110  
FAX: (360) 352-4154  
Email: libbyenv@aol.com

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Gasoline (µg/L)	Surrogate Recovery (%)
Method Blank	11/10/17	nd	nd	nd	nd	nd	87
LCS	11/10/17	75%	91%				86
Excavation	11/10/17	1.7	2.5	2.1	9.8	262	89
Excavation Dup	11/10/17	1.5	2.3	2.1	9.6	266	83
Excavation MS	11/10/17	71%	72%				80
Excavation MSD	11/10/17	72%	75%				81
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Kodey Eley

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/L)	Oil (µg/L)
Method Blank	11/10/17	104	nd	nd
Excavation	11/10/17	86	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Vanessa Cheang

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Total Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Arsenic (µg/L)
Method Blank	11/11/17	nd	nd	nd	nd
Excavation	11/11/17	4.3 JT	nd	nd	nd
Excavation Dup	11/11/17	5.2	nd	nd	nd
Practical Quantitation Limit		5.0	0.5	5.0	3.0

"nd" Indicates not detected at the listed detection limits.

"JT" Analyte was positively identified. Reported result is an estimate below the associated quantitation limit but above the MDL.

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## QA/QC for Total Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (% Recovery)	Cadmium (% Recovery)	Chromium (% Recovery)	Arsenic (% Recovery)
LCS	11/11/17	111%	101%	99%	104%
Excavation MS	11/11/17	104%	82%	82%	106%
Excavation MSD	11/11/17	100%	84%	84%	108%
RPD	11/11/17	4%	3%	2%	2%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Total Mercury in Water by EPA Method 7470

Sample Number	Date Analyzed	Mercury (µg/L)
Method Blank	11/12/17	nd
Excavation	11/12/17	nd
Excavation Dup	11/12/17	nd
Practical Quantitation Limit		0.5

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## QA/QC for Total Mercury by EPA Method 7470

Sample Number	Date Analyzed	Mercury (% Recovery)
LCS	11/12/17	96%
Excavation MS	11/12/17	106%
Excavation MSD	11/12/17	101%
RPD	11/12/17	5%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

## Analyses of Total Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Copper (µg/L)	Zinc (µg/L)
Method Blank	11/11/17	nd	nd
Excavation	11/11/17	nd	nd
Excavation Dup	11/11/17	nd	nd
Practical Quantitation Limit		5.0	5.0

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

AUBURN SUBARU PROJECT

G-Logics

Auburn, Washington

Libby Project # L171109-6

Client Project # 01-1140-C

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

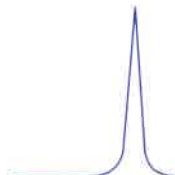
## QA/QC for Total Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Copper (% Recovery)	Zinc (% Recovery)
LCS	11/11/17	113%	101%
Excavation MS	11/11/17	98%	98%
Excavation MSD	11/11/17	98%	100%
RPD	11/11/17	1%	2%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Dirk Peterson




11/10/2017

Libby Environmental, Inc.  
4139 Libby Rd NE  
Olympia, WA 98506  
Attn: Jamie Deyman

Project: Auburn Subaru  
Client ID: Excavation  
Sample Matrix: Water  
Date Sampled: 11/09/2017  
Date Received: 11/10/2017  
Spectra Project: 2017110293  
Spectra Number: 1  
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Barium	0.070	mg/L	EPA 200.7
Nickel	< 0.015	mg/L	EPA 200.7
Selenium	< 0.05	mg/L	EPA 200.7
Silver	< 0.007	mg/L	EPA 200.7

SPECTRA LABORATORIES

  
Jeffrey Cooper, Laboratory Manager  
a6/scj

November 10, 2017

Libby Environmental, Inc.  
4139 Libby Rd NE  
Olympia, WA 98506

Units: mg/L  
Spectra Project: 2017110293  
Applies to Spectra #'s 1  
Analyst: SCJ

**QUALITY CONTROL RESULTS**  
**ICP Metals - EPA Method 200.7 - Water**

**Laboratory Reagent Blank (LRB)**

Date Digested: 11/10/2017 Date Analyzed: 11/10/2017

Element	Result
Barium	< 0.002
Nickel	< 0.015
Selenium	< 0.05
Silver	< 0.007

**Laboratory Fortified Blank (LFB)**

Date Digested: 11/10/2017 Date Analyzed: 11/10/2017

Element	Spike Added	LCS Conc.	LCS %Rec
Barium	1.0	1.030	103.0
Nickel	1.0	1.027	102.7
Selenium	1.0	0.980	98.0
Silver	1.0	1.097	109.7

LCS Recovery limits 85-115%

**Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

Date Digested: 11/9/2017 Date Analyzed: 11/9/2017  
Sample Spiked: 2017110242-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc.	MSD %Rec	RPD
Barium	0.017	1.0	1.009	99.2	1.010	99.3	0.1
Nickel	0.000	1.0	0.987	98.7	0.991	99.1	0.4
Selenium	0.000	1.0	0.967	96.7	0.973	97.3	0.6
Silver	0.000	1.0	1.000	100.0	0.924	92.4	7.9

Comment:

Recovery Limits 70-130%

RPD Limit 20

Spectra Laboratories

  
Jeffrey Cooper  
Laboratory Manager

# Libby Environmental, Inc.

# Chain of Custody Record 2017110293

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506

Ph: 360-352-2110  
Fax: 360-352-4154

Client: Libby Environmental, Inc

Address:

City: State: Zip:

Phone: Fax:

Client Project # L171109-6

Date: 11-10-17 Page: 1 of 1

Project Manager: Sherry Chilcatt

Project Name: Auburn Subarn

Location: City, State: Auburn, WA

Collector: Date of Collection: 11-9-17

Email: libbyenv@aol.com



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Total Base, Ag, Ni	Field Notes
1 <u>Excavation</u>		<u>1215</u>	<u>H2O</u>	<u>Poly</u>												<u>X</u>	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>Em 2 R</u>	Date / Time: <u>11-10-17 0808</u>	Received by: <u>Lon Amuth</u>	Date / Time: <u>11-10-17 0808</u>	<b>Sample Receipt</b> Good Condition? <u>(Y)</u> N Temp. <u>2.6</u> °C Seals Intact? Y N <u>NA</u> Total Number of Containers <u>1</u>	Remarks: <u>Due 11-13-17 2PM</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

# **APPENDIX C**

# LETTER OF TRANSMITTAL



3919 88<sup>th</sup> St NE  
Marysville, WA 98270  
Tel: [360] 659-2459  
Fax: [360] 659-9346  
www.clearcreekcon.com

TO: G-Logics ATTENTION: Karis Vandehey  
40 2nd Avenue SE DATE: 11/3/2017  
Issaquah, WA 98027 PROJECT: Auburn Auto Dealership Site  
JOB NO: 217100 TRANSMITTAL NO: 01

CC: Paul Curnett, Mike Scarff, Rory Galloway

## WE ARE SENDING YOU THE FOLLOWING ITEMS:

ITEM	COPIES	DESCRIPTION
Waste Profile	1	

## REMARKS:

Mass Excavation • Site Remediation • Site Development • Soil/Water Disposal  
Stream/Wetland Restoration • Treatment System Installation • Test Pitting  
UST Decommissioning • Haz. Waste Transportation • Drum Profiling & Disposal

**WASTE ACCEPTANCE APPLICATION**  
**CONTAMINATED SOILS, DREDGE SPOILS, AND DEBRIS**  
**COWLITZ COUNTY HEADQUARTERS LANDFILL**  
(Complete and application for each waste)

Customer: Clearcreek Cont.  
Address: 3919 88<sup>th</sup> St. NE  
City/State/Zip: Marysville WA 98270  
Contact: Mark McCullough, 206-423-8120, mark@clearcreekcon.com

Customer #: 8130  
Material #: 5403

Delivery To: Direct to Landfill

**General Information for waste disposal:**

- 1) Project Address: Auburn Subaru, 3025 Auburn Way N., Auburn WA
- 2) Charge Account Number:
- 3) Estimated quantity (tons or cubic yards): 1000 tons
- 4) Estimated start date: Week of 11/6/17
- 5) Source Type "1" thru "4" (see Acceptance Process): 1
- 6) Waste current location: See project address
- 7) Waste original location: See project address
- 8) Please give a detailed description of activities which occurred on or near soils original location which may have impacted the soils: **Soils contaminated leaking waste oil UST.**
- 9) Analytical Testing:

**Waste Oils and Unknown Oils:**

- Analyze waste by NWTPH-Gx & NWTPH-Dx to identify contaminants. Additional testing may be required based on these results.

**Gasoline Range Organics (C6 – C12):**

- Analyze waste by NWTPH-Gx.
- Analyze waste for BTEX compounds with EPA Method 8021 or 8260.
- If TPH > 5000 ppm, analyze waste for TCLP metals.
- If TPH > 5000 ppm, analyze waste by EPA Method 8260 and 8270.

**Diesel Range Organics (C12 – C24):**

- Analyze waste by NWTPH-Dx.
- If TPH > 5000 ppm, analyze waste for TCLP metals.
- If TPH > 5000 ppm, analyze waste by EPA Method 8260 and 8270.

**Heavy Oil Organics (>C24):**

- Analyze waste for heavy fuel by NWTPH-Dx.
- Analyze waste for PCB's by EPA Method 8082 when there is a potential for PCB's to be present.
- If TPH > 5000 ppm, analyze waste for TCLP metals.
- If TPH > 5000 ppm, analyze waste by EPA Method 8260 and 8270.

Approved  
*J. J. J.*  
11-2-17

**10)** List of possible additional analysis. Selected items depend on the potential contaminants, available analytical, and generator knowledge of process and/or history:

- ☒ a. Waste samples were collected in accordance with WAC 173-303-110(2).
- ☒ b. Lab analytical procedures complied with WAC 173-303-110(3).
- ☐ c. Waste has been analyzed and is non-corrosive per WAC 173-303-090(6)(a)(iii) [pH].
- ☒ d. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis]:

Indicate the target characteristics: ☒ RCRA Metals

☐ F-List Organics

☐ Acid/Base neutrals

☐ Pesticides and Herbicides

- ☐ e. Waste has been analyzed and is non-toxic per WAC 173-303-101(5) [Fish Bioassay].
- ☒ f. Waste has been analyzed and is non-persistent per WAC 173-303-102 [PAH only].
- ☒ g. Waste has been analyzed for PCB's per EPA Method 8082.
- ☒ h. Waste has been analyzed for diesel and/or heavy oil range organics per NWTPH-Dx.
- ☒ i. Waste has been analyzed for gasoline range organics per NWTPH-Gx.
- ☒ j. Waste has been analyzed for BTEX per EPA Method 8021 or 8260.
- ☐ k. Chain of custody and lab analytical data for required analyses is attached.
- ☐ l. Other:

**11)** Customer certifies that:

- a) The waste sampled and intended for disposal under this certification is neither dangerous nor extremely hazardous waste as determined by WAC 173-303.
- b) The waste has no free liquids per EPA Publication SW-846.
- c) To the best of your knowledge, there have been no alterations to the waste that would affect the accuracy of the analyses performed above.
- d) There have been no material changes in the character of the waste after the analyses were performed which would render those results inaccurate.
- e) The samples analyzed are representative of the waste to be tendered to the Cowlitz County Headquarters Landfill for disposal.

*Mike Scarff*

11/3/2017

Signature of Authorized Agent or Generator

Date

Mike Scarff

Printed Name and Title of Authorized Agent

NOTES: The Generator is: M&M Ventures, LLC  
33 Knights Lane  
Friday Harbor, WA 98250

Mike Scarff President

The Consultant and Authorized Agent for waste profiling/sampling is G-Logics, 175 First Place NW Issaquah, WA

Daily Transactions - All  
(((Trans.DateOut BETWEEN '2017-11-01' AND '2017-11-22')  
AND (Trans.Void = 0)  
AND (Trans.BillAcct LIKE '8130%')))

TranNum	DateIn	DateOut	Truck	Fleet	Tag	BillAcct	BillCompany	MT	MTLabel	GrossS	TareS	NetS	GrossSTN	TareSTN	NetSTN
510571	11/06/2017	11/06/2017	CLEARCREEK 43			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	100,260.00	40,000.00	60,260.00	50.13	20.00	30.13
510577	11/06/2017	11/06/2017	DIETRICH 8525			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	104,200.00	41,580.00	62,620.00	52.10	20.79	31.31
510580	11/06/2017	11/06/2017	DIETRICH 8538			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	104,380.00	46,000.00	58,380.00	52.19	23.00	29.19
510620	11/07/2017	11/07/2017	CLEARCREEK 43			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	93,700.00	40,200.00	53,500.00	46.85	20.10	26.75
510625	11/07/2017	11/07/2017	DIETRICH 8525			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	102,280.00	41,260.00	61,020.00	51.14	20.63	30.51
510635	11/07/2017	11/07/2017	DIETRICH 8538			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	107,360.00	46,800.00	60,560.00	53.68	23.40	30.28
510668	11/08/2017	11/08/2017	DIETRICH 8538			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	104,120.00	47,680.00	56,440.00	52.06	23.84	28.22
510670	11/08/2017	11/08/2017	DIETRICH 8525			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	101,880.00	41,980.00	59,900.00	50.94	20.99	29.95
510671	11/08/2017	11/08/2017	CLEARCREEK 43			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	100,520.00	40,200.00	60,320.00	50.26	20.10	30.16
510722	11/08/2017	11/08/2017	DIETRICH 8538			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	108,840.00	44,640.00	64,200.00	54.42	22.32	32.10
510756	11/09/2017	11/09/2017	DIETRICH 8525			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	100,840.00	41,440.00	59,400.00	50.42	20.72	29.70
510779	11/09/2017	11/09/2017	DIETRICH 8538			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	106,560.00	44,600.00	61,960.00	53.28	22.30	30.98
510788	11/09/2017	11/09/2017	DIETRICH 8509			8130	CLEARCREEK CONTRACTORS INC	5403	PCS - 4	91,200.00	41,420.00	49,780.00	45.60	20.71	24.89
Grand Summaries															
Count = 13														Sum = 384.17	

Transaction # 510571

	Time	Date	Lane
In:	12:53 PM	11/06/17	01
Out:	01:44 PM	11/06/17	02

---

Truck/Card#: CLEARCREEK 43  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

Gross:	50.13 tons	100260	lbs
Tare:	20.00 tons	40000	lbs
Net:	30.13 tons	60260	lbs

---

Billing Information:

Payment Type:  
Tip Fee: @ /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee: \_\_\_\_\_

---

Notes:

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---

Transaction # 510577

	Time	Date	Lane
In:	02:37 PM	11/06/17	01
Out:	02:54 PM	11/06/17	02

---

Truck/Card#: DIETRICH 8525  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC  
  
Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher  
  
Material: PCS - 4

---

Gross:	52.10 tons	104200	lbs
Tare:	20.79 tons	41580	lbs
Net:	31.31 tons	62620	lbs

---

Billing Information:

Payment Type:  
Tip Fee: @ /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee: \_\_\_\_\_

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Notes:

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Transaction #                    510580

	Time	Date	Lane
In:	02:57 PM	11/06/17	01
Out:	03:37 PM	11/06/17	02

---

Truck/Card#: DIETRICH 8538  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC  
  
Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher  
  
Material: PCS - 4

---

Gross:	52.19 tons	104380	lbs
Tare:	23.00 tons	46000	lbs
Net:	29.19 tons	58380	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:                \_\_\_\_\_

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Notes:

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Transaction #            510620

	Time	Date	Lane
In:	10:21 AM	11/07/17	01
Out:	10:44 AM	11/07/17	02

---

Truck/Card#: CLEARCREEK 43  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	46.85 tons	93700	lbs
Tare:	20.10 tons	40200	lbs
Net:	26.75 tons	53500	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:            \_\_\_\_\_

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Notes:

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Transaction #                    510625

	Time	Date	Lane
In:	11:05 AM	11/07/17	01
Out:	11:29 AM	11/07/17	02

---

Truck/Card#: DIETRICH 8525  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	51.14 tons	102280	lbs
Tare:	20.63 tons	41260	lbs
Net:	30.51 tons	61020	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @                    /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:                    \_\_\_\_\_

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Notes:

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Transaction #            510635

	Time	Date	Lane
In:	11:59 AM	11/07/17	01
Out:	12:26 PM	11/07/17	02

---

Truck/Card#: DIETRICH 8538  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC  
  
Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher  
  
Material: PCS - 4

---

Gross:	53.68 tons	107360	lbs
Tare:	23.40 tons	46800	lbs
Net:	30.28 tons	60560	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:            \_\_\_\_\_

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Notes:

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Transaction # 510668

	Time	Date	Lane
In:	06:58 AM	11/08/17	01
Out:	07:20 AM	11/08/17	02

Truck/Card#: DIETRICH 8538  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

Gross: 52.06 tons 104120 lbs  
Tare: 23.84 tons 47680 lbs  
Net: 28.22 tons 56440 lbs

Billing Information:

Payment Type:  
Tip Fee: @ /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee: \_\_\_\_\_

Notes:

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Transaction # 510670

	Time	Date	Lane
In:	07:05 AM	11/08/17	01
Out:	07:32 AM	11/08/17	02

Truck/Card#: DIETRICH 8525

Fleet #:

Bill Acct: 8130

Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer

Origin: PCS - Out Of County

Destination: Fulcher

Material: PCS - 4

Gross:	50.94 tons	101880 lbs
Tare:	20.99 tons	41980 lbs
Net:	29.95 tons	59900 lbs

Billing Information:

Payment Type:

Tip Fee: @ /TN

Tipper Fee:

Agency Fee:

Excise Tax:

Cleanup Fee:

Tax:

Total Fee: \_\_\_\_\_

Notes:

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Transaction #            510671

	Time	Date	Lane
In:	07:00 AM	11/08/17	01
Out:	07:37 AM	11/08/17	02

---

Truck/Card#: CLEARCREEK 43  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC  
  
Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher  
  
Material: PCS - 4

---

Gross:	50.26 tons	100520	lbs
Tare:	<u>20.10</u> tons	<u>40200</u>	lbs
Net:	30.16 tons	60320	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:            \_\_\_\_\_

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Notes:

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Transaction #                    510722

	Time	Date	Lane
In:	02:41 PM	11/08/17	01
Out:	03:25 PM	11/08/17	02

---

Truck/Card#: DIETRICH 8538  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	54.42 tons	108840	lbs
Tare:	22.32 tons	44640	lbs
Net:	32.10 tons	64200	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @                    /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:                    \_\_\_\_\_

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Notes:

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Transaction #                    510756

	Time	Date	Lane
In:	09:05 AM	11/09/17	01
Out:	09:28 AM	11/09/17	02

---

Truck/Card#: DIETRICH 8525  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	50.42 tons	100840	lbs
Tare:	20.72 tons	41440	lbs
Net:	29.70 tons	59400	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:            \_\_\_\_\_

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Notes:

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Transaction #                    510779

	Time	Date	Lane
In:	11:34 AM	11/09/17	01
Out:	12:13 PM	11/09/17	02

---

Truck/Card#: DIETRICH 8538  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	53.28 tons	106560	lbs
Tare:	22.30 tons	44600	lbs
Net:	30.98 tons	61960	lbs

---

Billing Information:

Payment Type:  
Tip Fee:                    @            /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee:            \_\_\_\_\_

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Notes:

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Transaction # 510788

	Time	Date	Lane
In:	01:26 PM	11/09/17	01
Out:	02:08 PM	11/09/17	02

---

Truck/Card#: DIETRICH 8509  
Fleet #:  
Bill Acct: 8130  
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer  
Origin: PCS - Out Of County  
Destination: Fulcher

Material: PCS - 4

---

Gross:	45.60 tons	91200	lbs
Tare:	20.71 tons	41420	lbs
Net:	24.89 tons	49780	lbs

---

Billing Information:

Payment Type:  
Tip Fee: @ /TN  
Tipper Fee:  
Agency Fee:  
Excise Tax:  
Cleanup Fee:  
Tax:  
  
Total Fee: \_\_\_\_\_

---

Notes:

\*\*\*\*\*Reprint\*\*\*Reprint\*\*\*\*\*

(( ))



# EMERALD

An Environmental Company

7343 E. MARGINAL WAY SOUTH  
SEATTLE, WASHINGTON 98108  
PH. (206) 832-3000  
FAX (206) 832-3030  
24 HOUR EMERGENCY PHONE: 1-888-832-3008

80390

## BILL OF LADING AND GALLONAGE TICKET

SHIPPER/GENERATOR <u>Auburn Subaru (Clear Week)</u>		CONTACT	JOB # <u>7705830122</u>		
ADDRESS <u>3015 Auburnway W.</u>		PHONE#	LOAD # <u>1</u>		
CITY, STATE, ZIP <u>Auburn, WA</u>			DATE <u>11/16-17</u>		
CARRIER <u>Emerald Services</u>		PHONE#	DOCUMENT #		
CONSIGNEE <u>APW Facility</u>		CONTACT	TRUCK # <u>687021</u>		
ADDRESS <u>1500 Airport Way South</u>		PHONE#	PRODUCT TYPE <u>LIG</u>		
CITY, STATE, ZIP <u>Seattle, WA</u>			EST. GALLONS		
HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	<u>Non Hazardous Liquid</u>	<u>1</u>	<u>TT</u>	<u>2600</u>
	B	<u>Water</u>			
	C				
	D				

A. WPO # \_\_\_\_\_ DISP. CODE 603202  
B. WPO # \_\_\_\_\_ DISP. CODE \_\_\_\_\_

C. WPO # \_\_\_\_\_ DISP. CODE \_\_\_\_\_  
D. WPO # \_\_\_\_\_ DISP. CODE \_\_\_\_\_

### DISPOSAL

WASH OUT: YES ( ) NO ( )

DUMP DELAY TIME \_\_\_\_\_

E. WATER \_\_\_\_\_ GALLONS LOCATION \_\_\_\_\_

TIME IN \_\_\_\_\_ TIME OUT \_\_\_\_\_

F. SOLIDS \_\_\_\_\_ GALLONS LOCATION \_\_\_\_\_

TEST \_\_\_\_\_ DISP. CODE \_\_\_\_\_

\_\_\_\_\_ % SUSPENDED SOLIDS BY CENTRIFUGE + \_\_\_\_\_

TEST \_\_\_\_\_ DISP. CODE \_\_\_\_\_

G. OIL/DIESEL/GAS \_\_\_\_\_ GALLONS LOCATION \_\_\_\_\_

GALS SEDIMENT \_\_\_\_\_

HOC'S \_\_\_\_\_ PCB'S \_\_\_\_\_

TEST \_\_\_\_\_ DISP. CODE \_\_\_\_\_

B.S.&W. \_\_\_\_\_ API \_\_\_\_\_ LAB. Y/N \_\_\_\_\_

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway, vessel and rail according to applicable international and national government regulations and this material is not regulated as a hazardous waste in accordance with WAC 173-303, 40 CFR Part 261 or 40 CFR Part 761.

SHIPPER PRINT NAME

# **ATTACHMENTS**

## **Permission and Conditions for Use and Copying Form**

**Environmental Media Management Report  
Soil Removal and Sampling  
Auburn Way Properties  
3025 and 3109 Auburn Way N  
Auburn, WA 98002**

**G-Logics Project 01-1140-C  
December 4, 2017**

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