



January 11, 2017
G-Logics Project Number 01-0294-E

Wards Cove Packing Company
Mr. Jan Supler
PO Box 5030
Seattle, WA 98105

**Subject: Technical Assistance and Soil Sampling - DRAFT
 Former Chevron Truck Loading Rack Property
 147 Front Street
 Hoonah, AK 99829
 Hazard ID No.: 26601**

Dear Mr. Supler:

G-Logics was authorized by Wards Cove Packing Company (WCP) to provide technical assistance and soil-sampling services for the above-referenced property (the "Property"). At the request of WCP, the performed exploration work was intended to further investigate several issues. These issues were identified by the Alaska Department of Environmental Conservation (ADEC) in their notice of liability, dated September 20, 2016. Based on the previous exploration conducted at the Property (Spring 2015) and communications with ADEC, G-Logics completed additional sampling on the Property.

This site exploration was intended to further define the areas and extent of soil contamination, which ADEC has alleged as a source of potential contamination to groundwater and surface water. Additionally, to the extent possible, obviously-contaminated soils (associated with the former Chevron truck-loading rack) was excavated and removed during this exploration. This soil removal serves as an Interim Action to further reduce the potential impacts to groundwater and surface water. Information collected during this exploration also will be used to evaluate final cleanup alternatives (to be presented in a separate document).

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01-0294-E-RT.doc

1.0 BACKGROUND

The subject Property is located at 147 Front Street in Hoonah, Alaska (Figure 1) and has been assigned Hazard-Identification Number 26601 by ADEC. The Property currently consists of a retail store (grocery and hardware supplies that is operated by the Hoonah Trading Company), a maintenance/storage building, and a former truck-loading rack area (now used as a carport).

It is G-Logics understanding that Chevron, and its predecessor Standard Oil (collectively Chevron), actively operated on the Property from the 1940s to the 1980s. In 1974 when WCP, through its predecessor (collectively WCP), became the owner of the Property, Chevron contracted with and leased the Property from WCP to operate a fuel-tank farm that included associated facilities (such as the truck-loading rack area). In 1986, Chevron sold the remaining assets (i.e., tanks and equipment) to WCP. As discussed below, WCP decommissioned both the tank farm and the truck-loading rack in the spring of 2015.

1.1 Historic Tank Farm and Fueling Operation by Chevron

During Chevron's operation, the truck-loading rack was used to load fuel into trucks, which delivered the fuel to customers. Fuels from the truck-loading rack came from Chevron's tank farm, located on the east-adjacent property (160 Front St., Hoonah, AK). The truck-loading rack on the Property is known to ADEC as the "Former Chevron Truck-Loading Rack", and the tank farm on the adjacent property is known to ADEC as the "Former Chevron Tank Farm."

Historically, fuel-supply lines (from the former Chevron tank farm to the truck-loading rack) were located above ground until crossing Front Street, at which point they were routed underneath the roadway. The fuel lines exited the ground through the shoreline bulkhead and entered the Property at the northeast corner of the Hoonah Trading Company's parking lot (shown on Figure 2).

1.2 2015 Decommission by WCP

In the spring of 2015, WCP retained Spooner Contracting, LLC (Spooner) to remove and decommission the former Chevron truck-loading rack (located on the subject Property) and former Chevron tank farm (located on the adjacent property, 160 Front Street). The demolition and decommissioning work on the Property included the removal of the supply

lines associated with the truck-loading rack. At the former Chevron tank farm, the tanks and other structures also were decommissioned at this time.

Shortly after the demolition and decommissioning work (at both properties), WCP retained G-Logics to evaluate the potential soil, groundwater, and/or surface water contamination at the Property, as well as the property on which the former Chevron tank farm was located. Due to access restraints, G-Logics was only able to collect sampling using hand-operated equipment (e.g., shovel or trowel). Details regarding these investigations are presented in two separate G-Logics reports, both dated July 17, 2015. These investigations are briefly described below.

1.3 2015 G-Logics Environmental Investigation at Former Chevron Truck-Loading Rack

In the area of the truck-loading rack on the Property, diesel-range organic (DRO) contaminants were discovered in the soil above ADEC Method 2 cleanup levels. The contamination was associated with the former truck-loading rack and likely originated from fueling operations (i.e., small spills or overfills). Attached Figures 2 and 2a show the locations of the former truck-loading rack and the locations of soil samples collected during the 2015 environmental investigation (including sampling locations on the adjacent 160 Front Street property).

1.4 2015 G-Logics Environmental Investigation at the Former Chevron Tank Farm

As discussed above, above-ground fuel lines that originated from the former Chevron tank farm were routed underneath Front Street and resurfaced to connect to the former truck-loading rack. In 2015, G-Logics collected soil samples in the area beneath the fuel lines. These samples were used to assess potential contamination on the Property that originated from releases associated with the former Chevron tank-farm operations.

Gasoline-range organics (GRO) and DRO contaminants were detected in soil samples at concentrations above ADEC Method 2 cleanup levels. These contaminants were found in the area of the former tank farm and were found along the piping. The attached Figures 2 and 2a also show the locations of the samples collected in 2015.

1.5 2016 Communication with and Notice of Liability from ADEC

On behalf of WCP, G-Logics reported the discovered releases to ADEC in July 2016. During the month of August, ADEC acknowledged the reported spill and sought additional information to which G-Logics responded on WCP's behalf. On September 20, 2016, ADEC issued a notice of potential liability to Wards Cove. This notice outlines WCP's responsibilities under AS 46.03.822 and ADEC's conclusions and recommendations with respect to the environmental conditions on the Property.

2.0 SITE EXPLORATION ACTIVITIES

Based on G-Logics 2015 site-assessment sampling, as well as ADEC's requirement described above, G-Logics performed an interim remedial excavation and conducted additional soil sampling on the Property. This work was performed in November 2016 to further characterize the site, delineate the extent of petroleum contamination, and perform an interim remedial action. The collected information also can be used to further evaluate cleanup alternatives for the Property. Sampling areas and locations are shown on the attached Figure 3. Please refer to Appendix A for more detail regarding site-exploration methods.

A G-Logics geologist was present at the Property to perform a site exploration and interim remedial action (contaminated soil excavation). All sampling work was performed by a "Qualified Person" as required by 18 AAC 75. Environmental-sampling procedures followed ADEC's *Field Sampling Guidance (March 2016)*. Soil samples were submitted for analysis in accordance with Table 2B of 18 AAC 75 *Oil and Other Hazardous Substances Pollution Control* (revised May 8, 2016). Further details are described below.

2.1 Underground Utility Clearance

Prior to conducting the sampling and remedial work, G-Logics coordinated all necessary utility locates with personnel from the Hoonah Trading Company and the excavation contractor.

2.2 Interim Action and Sampling in the Former Chevron Truck-Loading Rack Area

Previous investigations found DRO above Method 2 cleanup levels near the former truck-loading rack. Using a small excavator, soils with field indications of petroleum

contamination (i.e., odor or staining) were removed to the extent possible and placed into one-cubic yard, plastic-lined supersacks. Soil excavation continued until all obvious contaminated soil was removed or the excavator reached an obstruction (i.e., utility line or concrete slab). Confirmation soil samples then were collected from the remaining in-place soils to assess soil conditions.

In addition to the remedial excavation, a testpit measuring five feet by nine feet by three feet deep was advanced in an area south of the remedial excavation and the oil/water separator (location shown on Figure 3a). This testpit was advanced using the small excavator and was intended to assess potential contamination migrating to the south of the former truck-loading rack. Several soil samples were collected up to a depth of 3 feet from the testpit. Groundwater was not encountered in the testpit or larger excavation.

The collected soil samples were field screened for petroleum contaminants (i.e., visible staining/discoloration, odors, and sheen) with representative samples submitted for DRO and residual range organic (RRO) laboratory analysis. Soil-sampling results and findings from the remedial excavation and testpit are summarized in Section 3.1 below.

2.3 Sampling in the Fuel-Pipe Area

Based on previous-investigation results, GRO and DRO contaminants were detected above Method 2 cleanup levels where the fuel pipes (associated with the former tank farm located at 160 Front Street) exited the shoreline bulkhead. Several testpits (testpits TP-17 to TP-20) were advanced using hand-operated equipment (i.e., shovel and rock bar) to further assess soil conditions in this area. Field screening and soil-sampling locations are shown on Figure 3. Testpits could only be advanced to depths of 1.5 feet due to the abundance of gravels and cobbles in this area.

A photoionization detector (PID) was used during the shallow testpit work to screen for volatile organic compounds (VOCs) in collected soil samples, with the results measured in parts per million by volume (ppmv). The results are presented in Table 3. The collected soil samples also were field screened for petroleum contaminants (i.e., visible staining/discoloration, odors, and sheen). Based on field observations, representative samples were submitted for GRO, DRO, RRO, and EDB/EDC laboratory analysis. Groundwater was encountered in several testpits at a depth of approximately 1.5 feet. However, groundwater was not encountered in sufficient quantities to sample. Soil-

sampling results and findings from the testpits located near the fuel-pipe area are summarized in Section 3.2 below.

2.4 Sampling in the Oil/Water Separator Area

An oil/water separator is located in the southeast corner of the Hoonah Trading Company parking lot (shown on Figure 3). During the 2016 site exploration, several testpits (testpits TP-21 and 22) were advanced using hand-operated equipment (i.e., shovel and rock bar) to assess soil conditions in this area. Soil sampling locations are shown on Figure 3. Because the potential source of contamination would originate from a surface spill, testpits were only advanced to depths of approximately one foot to assess near-surface conditions.

A photoionization detector (PID) again was used during the shallow testpit work to screen for VOCs in collected soil samples (results included in Table 3). Representative samples were submitted for GRO, DRO, and RRO laboratory analysis. Groundwater was encountered in several testpits at a depth of approximately one foot, but not in sufficient quantities to sample. Soil-sampling results and findings from the testpits located near the oil/water separator area are summarized in Section 3.3 below.

2.5 Stockpile Sampling

Soil removed from the former truck-loading rack excavation was temporarily stockpiled and then placed into one-cubic yard, plastic-lined supersacks. Approximately 10 cubic yards of soil was removed and ultimately placed into the supersacks. One soil sample was collected from the stockpiled soil and submitted for DRO and RRO laboratory analysis. Soil-sampling results and findings from the stockpile samples are summarized in Section 3.4 below.

3.0 SITE EXPLORATION OBSERVATIONS AND FINDINGS

The findings of the recent site work are presented below. A summary of the analytical results obtained during this exploration are presented on Tables 1 through 3. Sampling locations are shown on Figures 3 and 3a. The analytical laboratory reports for the analyzed soil samples are attached as Appendix B of this report. Chain-of custody forms also are included in Appendix B.

3.1 Soil Sampling Findings, Former Chevron Truck-Loading Rack

Soil samples collected near the former truck-loading rack were analyzed for DRO and RRO. Soil analytical results from the testpit and the remedial excavation indicate that petroleum-contaminated soils were successfully removed to the west and south of the former truck-loading rack. In addition, soil samples collected from the bottom of the excavation were below ADEC Method 2 cleanup levels. However, due to an electrical line in the excavation and the concrete slab to the east of the excavation (shown on Figure 3a), all contaminated soil associated with the former truck-loading rack was not able to be removed.

Soil samples collected from the north and east sidewalls also contained concentrations of DRO exceeding Method 2 cleanup levels for migration to groundwater. However, only one sample, TRESX1-ESW1-2' (collected from the east sidewall), contained a concentration of DRO exceeding the Method 2 cleanup level for direct contact/ingestion.

In addition, due to the presence of organics and root matter in the remedial excavation, two soil samples containing elevated concentrations of DRO were also analyzed utilizing a silica-gel cleanup procedure. The detected concentrations were very similar to those without the silica-gel procedure. Because of this, the remaining analyzed samples did not receive a silica-gel cleanup prior to analysis. Soil analytical results from the testpit and the remedial excavation are presented in Tables 1 and 2, respectively.

3.2 Soil Sampling Findings, Fuel-Pipe Area

Soil samples collected near the former fuel-pipe area were analyzed for GRO, DRO and RRO. Soil sample TP-17-1.5' (containing the highest concentration of GRO) also was analyzed for 1,2-dichloroethane (EDC) and 1,2-dibromoethane (EDB). DRO was detected in sample TP-17-1.5' at a concentration exceeding the Method 2 cleanup level for migration to groundwater (but below the direct contact/ingestion cleanup level). GRO was detected in this sample at a concentration below the most stringent Method 2 cleanup level. RRO, EDB, and EDC were not detected in this sample. However, the analytical laboratory was not able to achieve detection limits lower than the Method 2 cleanup level.

Soil samples from the remaining testpits in this area (testpits TP-17, 18, 19, and 20) did not contain concentrations of GRO, DRO, and RRO exceeding the most stringent Method 2 cleanup levels. Soil analytical results from the fuel-pipe area are presented in Table 3.

3.3 Soil Sampling Findings, Oil/Water Separator Area

Soil samples collected near the oil/water separator were analyzed for GRO, DRO and RRO. Soil samples from testpits in this area (testpits TP-21 and 22) did not contain concentrations of GRO, DRO, and RRO exceeding the most stringent Method 2 cleanup levels. Soil analytical results from the oil/water separator area also are presented in Table 3.

3.4 Soil Sampling Findings, Soil Stockpile

The stockpile sample, SP1, was analyzed for DRO and RRO. The sample contained DRO at concentrations exceeding the Method 2 cleanup level for migration to groundwater. The sample did not contain detectable concentrations of RRO. Analytical results are included in Table 2.

3.5 Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) included generally accepted procedures for sample collection, storage, tracking, documentation, and analysis. All sampling equipment was washed with an “Alconox” wash and distilled water rinse 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.

One field (blind) duplicate was collected per 10 project samples and submitted to the laboratory. A trip blank was included for volatile analyses and was transported in the cooler containing VOC samples. The laboratory also conducted matrix spike, matrix-spike duplicate, laboratory control, and method blank analyses. Based on the laboratory QA/QC results, the quality and usability of data collected during this exploration were not affected. However, the laboratory was unable to achieve practical quantitation limits (PQLs) below the Method 2 cleanup level concentration for EDB during this round of sampling.

Laboratory QA/QC information is included (with the laboratory reports) in Appendix B. G-Logics completed the ADEC laboratory data review checklists for each laboratory analytical report and also are included in Appendix B. The checklists further summarize the QA/QC methods, procedures and results, as well as the quality and usability of the data.

4.0 CONCLUSIONS

A summary of our conclusions concerning the area near the former Chevron truck-loading rack area is presented below.

- The completed testpit and excavation encountered moist, brown and gray (stained), well graded silty sands, with gravels and cobbles.
- Groundwater was not encountered in the testpit or excavation near the former truck-loading rack.
- The DRO Method 2 cleanup level for migration to groundwater was exceeded in samples collected on the north and east sidewalls of the remedial excavation. One sample collected on the east sidewall also exceeded the direct contact/ingestion.
- Detected concentrations from all remaining samples collected from the south sidewall, west sidewall, and bottom of the remedial excavation, as well as all samples collected from the testpit to the south of the excavation, were below the Method 2 cleanup level for migration to groundwater.
- In summary, concentrations of DRO above Method 2 cleanup levels remain in limited areas on the Property near the former Chevron truck-loading rack. However, due to site constraints, specifically an electrical utility line and a concrete driveway slab, the remaining contaminated soil was unable to be removed during the site work.

A summary of our conclusions concerning the area near the fuel-pipe area and oil/water separator is presented below.

- The completed testpit and excavation encountered moist, brown and gray (stained), well graded silty sands, with gravels and cobbles.
- Groundwater was encountered in several testpits at depths of 1 to 1.5 feet.
- The DRO Method 2 cleanup level for migration to groundwater was exceeded in one sample collected (during this exploration) closest to the fuel pipes and shoreline bulkhead.
- Concentrations of GRO, DRO, RRO, EDB, and EDC from all remaining testpit samples collected near the fuel pipes and the oil/water separator were either not detected or were detected at concentrations below the Method 2 cleanup levels for migration to groundwater.
- In summary, concentrations of DRO (and potentially GRO) above Method 2 cleanup levels remain in limited areas on the Property in the area of the fuel pipes.

- Comparing the analytical results for the 2015 and 2016 explorations, specifically for samples collected from testpits TP-13 and TP-17, it appears that GRO and DRO contaminants present in the soil quickly decrease in concentration with depth.

5.0 OPINIONS AND RECOMMENDATIONS

Based on the findings of this exploration and conversations with ADEC, our opinions and recommendations for each area of the Property are presented below.

5.1 Former Chevron Truck-Loading Rack

In the area of the former Chevron truck-loading rack, concentrations of DRO above Method 2 cleanup levels remain in limited areas. However, due to site constraints, specifically an electrical utility line and a concrete slab, the remaining contaminated soil is inaccessible at this time. Significant site work, mainly the demolition and removal of the concrete slab and potentially a maintenance building, would be required to access the small quantity of remaining contaminated soil present near the former truck-loading rack.

Because of this, G-Logics recommends implementing engineering and institutional controls in this area of the Property in order to obtain site closure through ADEC. Engineering controls could include concrete capping and stormwater capture to prevent surface water infiltration through the contaminated soil (thus limiting the migration to groundwater pathway). Institutional controls, such as administrative and/or legal controls (i.e., deed restriction), could be implemented in conjunction with engineering controls to further minimize the potential for human exposure to the remaining contamination. Engineering and institutional controls would require ADEC approval prior to implementation.

5.2 Former Fuel-Pipe Area

Based on the most recent exploration, G-Logics believes that the contamination associated with the former fuel lines is limited in lateral and vertical extent. Future remedial activities in this area could include the removal of petroleum-contaminated soil, to the extent possible, using hand-operated equipment. Contaminated soil removed in this area would be placed into plastic lined supersacks and disposed at an offsite permitted facility. Confirmation soil sampling would be performed to document the successful removal of contaminated soil.

In addition to GRO, DRO, and RRO, soil samples would be sampled and analyzed for EDB and EDC. G-Logics recognizes that the laboratory-detection limits for EDB were slightly greater than the Method 2 cleanup level, thus affecting the precision/usability of the data. A different laboratory can be used during the remedial activities in this area to such that method-detection limits can be below the ADEC Method 2 cleanup levels.

5.3 Oil/Water Separator Area, Hoonah Trading Company Parking Lot

Based on the most recent exploration, contaminant concentrations in the area of the oil/water separator are below the Method 2 cleanup levels for migration to groundwater (most stringent cleanup level). No further action is required at this time in the area of the oil/water separator.

6.0 LIMITATIONS

Our services were non-comprehensive and were not intended to identify all environmental problems or eliminate all risk. Please be aware our scope of work was limited to those items specifically described above. Other activities that are not specifically described are excluded and are therefore not part of our services.

Land use, site conditions (both on-site and off-site), and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the site visit.

This report is prepared for the sole use of our client. The scope of services performed during this assessment may not be appropriate for the needs of other users. Re-use of this document or the findings, conclusions, or recommendations presented herein, are at the sole risk of said user(s). Our client and regulatory agencies also may make additional copies of this document for their internal and public use, or as required by law. All other users of this document must acknowledge our copyright and indicate that permission to use has been received from G-Logics and our Client. Any party other than our client who would like to use this report shall notify G-Logics of such intended use by executing the “Permission and Conditions for Use and Copying” contained in this document. Based on the intended use of the report, G-Logics may require that additional work be performed and that an updated

report be issued. Non-compliance with any of these requirements will release G-Logics from any liability resulting from the use of this report by any unauthorized party.

No warranty, either express or implied, is made.

Closing

We appreciate this opportunity to provide our services to WCP. Please contact us at your convenience with any questions regarding our work or findings.

Sincerely,
G-Logics, Inc.

Rory L. Galloway, LG, LHG
Principal

Stuart Hyde
Project Geologist

FIGURES

Figure 1: Site Location Maps
Figure 2: Site Diagram, 2015 Soil Sampling Locations
Figure 2a: Previous Sampling Locations, Detail of 147 Front Street
Figure 3: November 2016 Sampling Locations
Figure 3a: Sampling Locations, Truck Rack Detail

TABLES

Table 1: Soil Sample Analyses, Former Chevron Truck-Loading Rack Testpit Sampling
Table 2: Soil Sample Analyses, Former Chevron Truck-Loading Rack Excavation Sampling
Table 3: Soil Sample Analyses, Testpit Sampling Associated with Former Chevron Tank Farm

APPENDICES

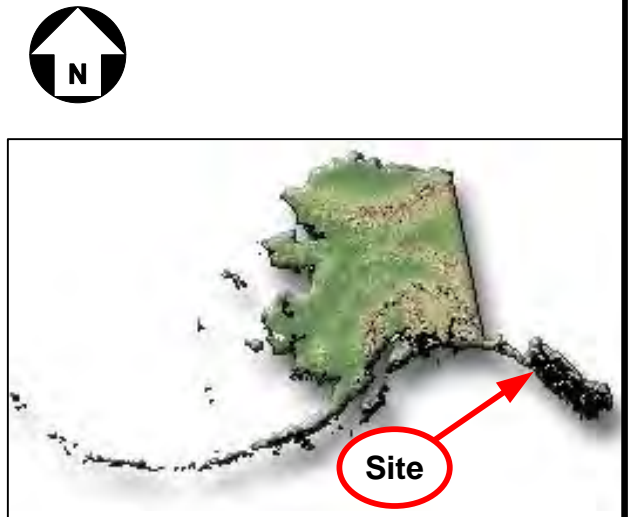
Appendix A: Field Exploration Methods
Appendix B: Laboratory Data and Chain-of-Custody Documents

PHOTOGRAPHS

ATTACHMENTS

Attachment A: Permission and Conditions for Use and Copying

FIGURES



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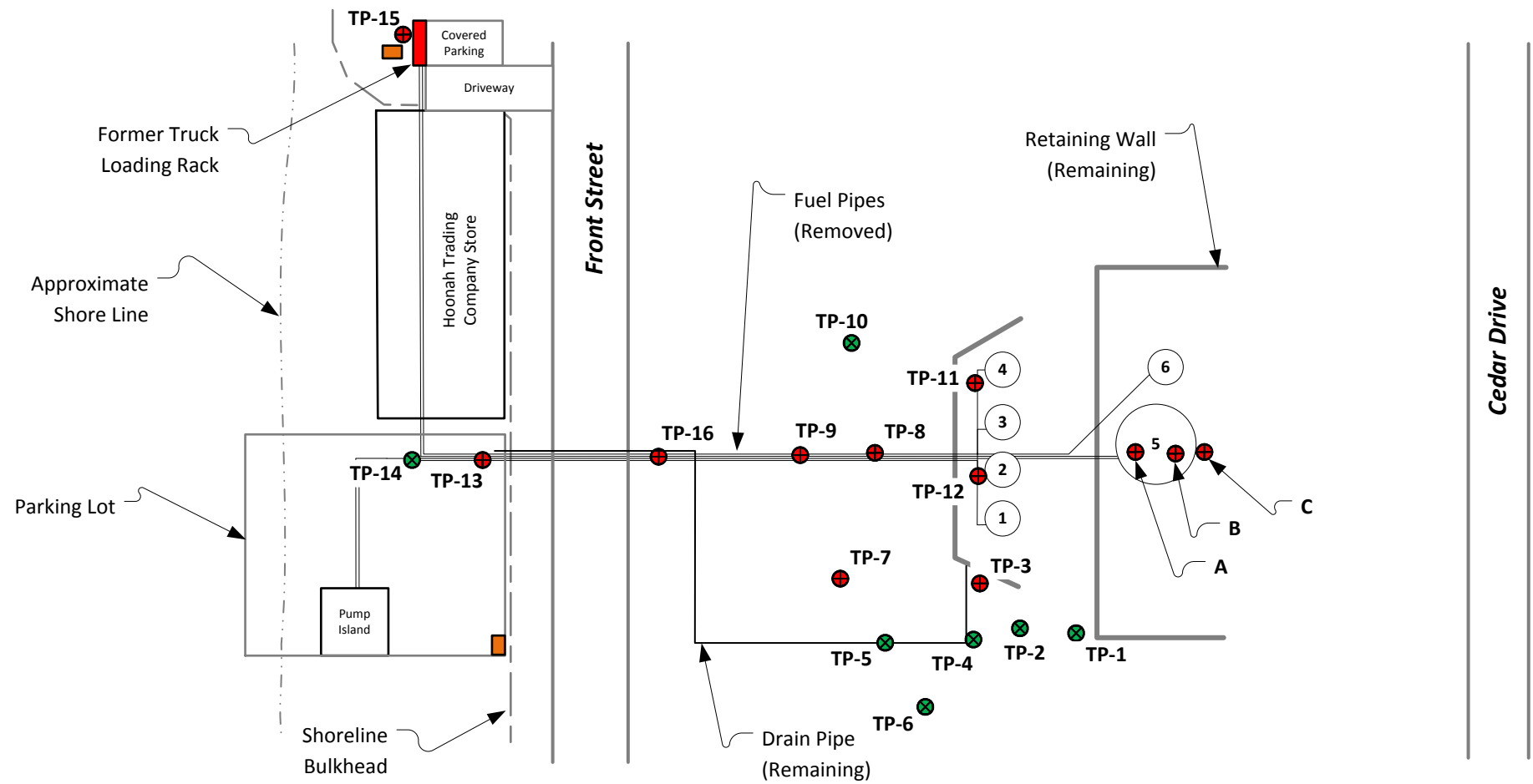
g-logics

Site Location Maps
Former Chevron Truck Loading Rack
Property
 147 Front Street
 Hoonah, Alaska

Figure
 1



DRAFT

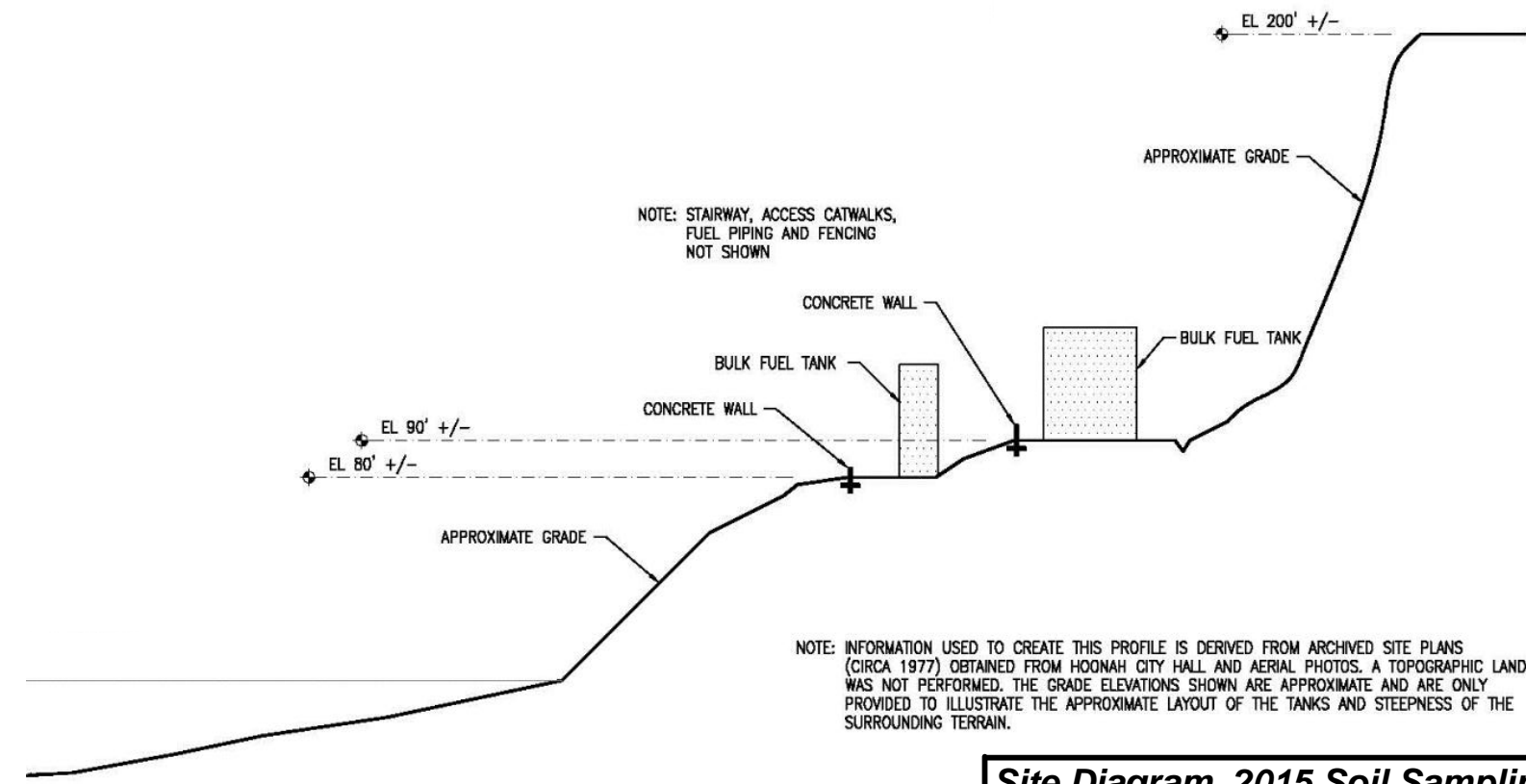


NOTE: BULK FUEL TANK CONSTRUCTION CONSISTS OF A STEEL PLATE SHELL WITH PANEL EDGES BOTH RIVETED AND WELDED.

TANK ID	DIAMETER	HEIGHT
#1	10'-6"	30'-6"
#2	10'-6"	30'-6"
#3	10'-6"	30'-6"
#4	10'-6"	30'-6"
#5	25'-3"	30'-6"
#6	12'-3"	30'-6"

Legend

- Soil Sampling Location with Petroleum Concentration Exceeding Method 2 Cleanup Levels
- Soil Sampling Location with Petroleum Concentration Below Method 2 Cleanup Levels
- Tank Location and Number
- Oil/Water Separator

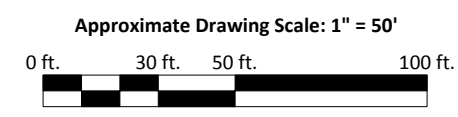


NOTE: STAIRWAY, ACCESS CATWALKS, FUEL PIPING AND FENCING NOT SHOWN

NOTE: INFORMATION USED TO CREATE THIS PROFILE IS DERIVED FROM ARCHIVED SITE PLANS (CIRCA 1977) OBTAINED FROM HOONAH CITY HALL AND AERIAL PHOTOS. A TOPOGRAPHIC LAND SURVEY WAS NOT PERFORMED. THE GRADE ELEVATIONS SHOWN ARE APPROXIMATE AND ARE ONLY PROVIDED TO ILLUSTRATE THE APPROXIMATE LAYOUT OF THE TANKS AND STEEPNESS OF THE SURROUNDING TERRAIN.



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

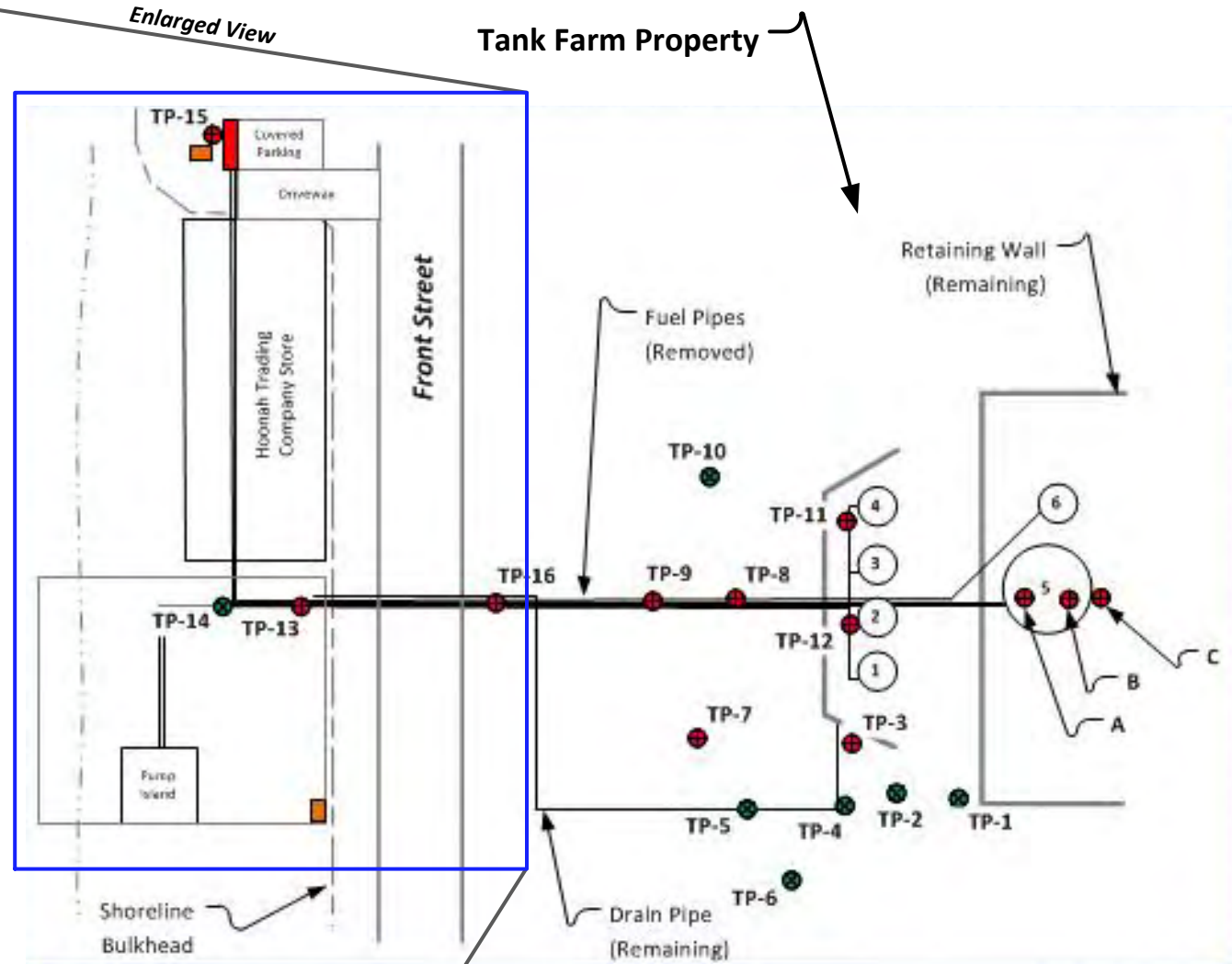
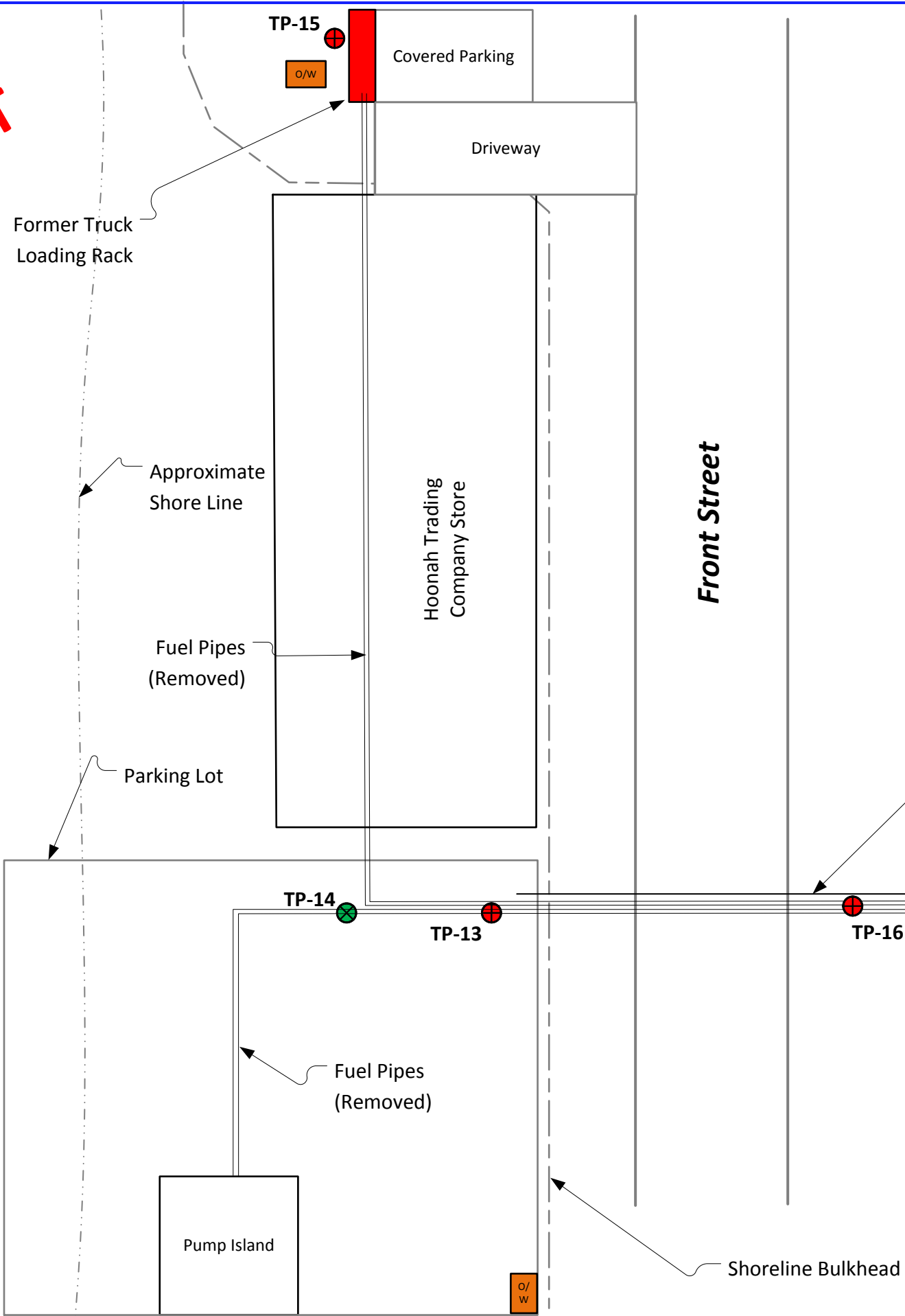


Note: Base map information and above cross section were obtained from mapping prepared by Orion Pacific, LLC

**Site Diagram, 2015 Soil Sampling Locations
Former Chevron Tank Farm and Truck-Loading Rack
147 and 160 Front Street
Hoonah, Alaska**

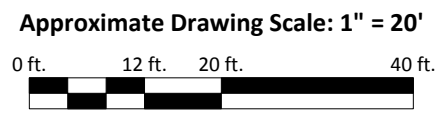


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Legend

- Soil Sampling Location with Petroleum Concentration Exceeding Method 2 Cleanup Levels
- Soil Sampling Location with Petroleum Concentration Below Method 2 Cleanup Levels
- 6 Tank Location and Number
- Oil/Water Separator



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

**Previous Sampling Locations, Detail of 147 Front St
Former Chevron Truck Loading Rack Property
147 Front Street
Hoonah, Alaska**

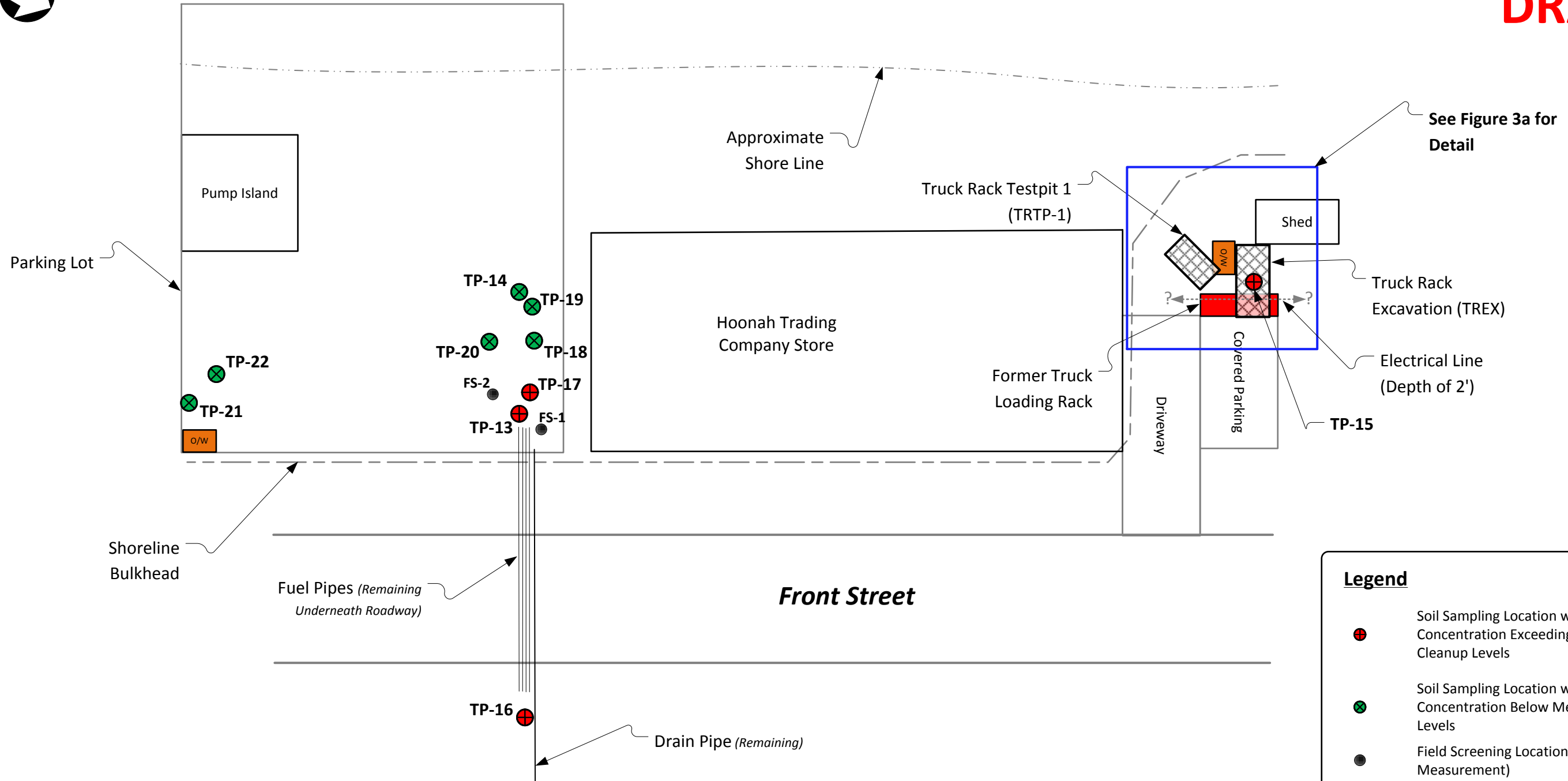


Figure
2a

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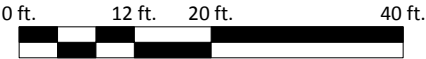
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Legend

- Soil Sampling Location with Petroleum Concentration Exceeding Method 2 Cleanup Levels
- Soil Sampling Location with Petroleum Concentration Below Method 2 Cleanup Levels
- Field Screening Location (PID Measurement)
- Oil/Water Separator

Approximate Drawing Scale: 1" = 20'



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



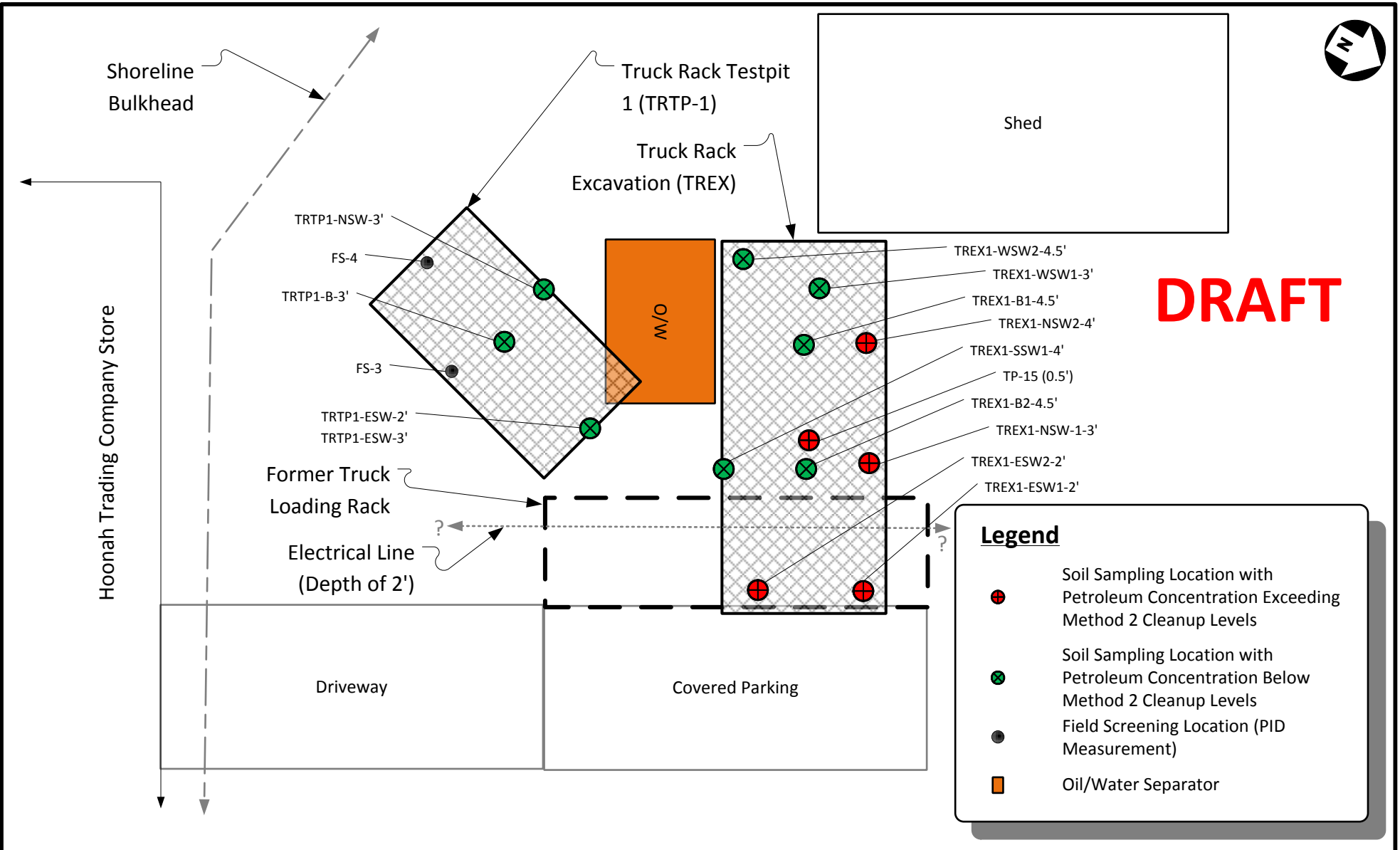
November 2016 Sampling Locations
Former Chevron Truck Loading Rack Property
147 Front Street
Hoonah, Alaska

Figure
3

Project File: 01-0294-E-RT-F3.vsd

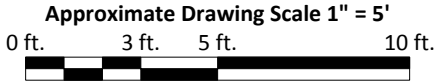


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Legend

- Soil Sampling Location with Petroleum Concentration Exceeding Method 2 Cleanup Levels
- Soil Sampling Location with Petroleum Concentration Below Method 2 Cleanup Levels
- Field Screening Location (PID Measurement)
- Oil/Water Separator



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

Sampling Locations, Truck Rack Detail
Former Chevron Truck-Loading Rack
147 Front Street
Hoonah, Alaska

Figure
3a

Project File: 01-0294-E-RT-F3a.vsd



TABLES

TABLE 1
Soil Sample Analyses, Former Chevron Truck-Loading Rack Testpit Sampling
Hoonah Fueling, 147 Front Street, Hoonah, AK 99829

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID (ppmV)	C6-C10 Gasoline Range Organics (GRO)	C10-C25 Diesel Range Organics (DRO)	C25-C36 Residual Range Organics (RRO)	Lead
(units in mg/kg)					AK 101, 102, and 103			EPA 6020
G-Logics Testpit Sampling								
TP-15	5/5/2015	TP-15-0.5'	0.5	---	26	13,300 E	367	21.4
TRTP-1	11/3/2016	TRTP1-B-3'	3	0.2	---	25.2	<54.5	---
	11/3/2016	TRTP1-ESW-2'	2	0.3	---	<21.8	<54.6	---
	11/3/2016	TRTP1-ESW-3'	3	0.2	---	79.3	<54.5	---
	11/3/2016	TRTP1-NSW-3'	3	0.2	---	<19.9	<49.7	---
Field Screening Measurements								
TRTP-1	11/3/2016	FS-3	3	0.2	---	---	---	---
	11/3/2016	FS-4	2	0.2	---	---	---	---
Method 2 Migration to Groundwater, Over 40 Inch Zone (1)					260	230	9,700	N/A
Method 2 Direct Contact/Ingestion, Over 40 inch Zone (1)					1,400	8,250	8,300	400

- Notes:** Refer to site diagram(s) for sampling locations.
- (1) Available Method Two Cleanup Levels for Alaska Department of Environmental Conservation, June 2015.
 - Not Analyzed
 - <21.8 The Analyte Was Not Detected at a Concentration Above the Indicated Reporting Limit.
 - 21.4** Bold Number(s) Indicates Contaminant Detected.
 - 1,000** Bold Number(s) and Blue Shading Indicates Concentration Exceeds Method 2 Migration to Groundwater Cleanup Level.
 - 1,000** Bold Number(s) and Orange Shading Indicates Concentration Exceeds Method 2 Direct Contact/Ingestion Cleanup Level.

TABLE 2
Soil Sample Analyses, Former Chevron Truck-Loading Rack Excavation Sampling
Former Chevron Truck Loading Rack Property, 147 Front Street, Hoonah, AK 99829

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID (ppmV)	C10-C25 Diesel Range Organics (DRO)	DRO with Silica Gel Cleanup	C25-C36 Residual Range Organics (RRO)	RRO with Silica Gel Cleanup
(units in mg/kg)								
Truck Rack Excavation Samples								
South Sidewall	11/3/2016	TREX1-SSW1-4'	4	---*	82	---	<46.4	---
East Sidewall	11/3/2016	TREX1-ESW1-2'	2	---*	11,300 D	---	<58.2	---
	11/3/2016	TREX1-ESW2-2'	2	---*	6,820 D	6,910 E	<49.7	<49.7
North Sidewall	11/3/2016	TREX1-NSW1-3'	3	---*	5,350 D	---	<46.6	---
	11/3/2016	TREX1-NSW2-4'	4	---*	331	316	<54.6	<54.6
West Sidewall	11/3/2016	TREX1-WSW1-3'	3	---*	<21.5	---	<53.7	---
	11/3/2016	TREX1-WSW2-4.5'	4.5	---*	42.8	---	<46.5	---
Bottom	11/3/2016	TREX1-B1-4.5'	4.5	---*	75.4	---	<53.7	---
	11/3/2016	TREX1-B2-4.5'	4.5	---*	152	---	<51.6	---
Stockpile Samples								
SP1	11/3/2016	SP1	---	---*	2,020 D	---	<47.6	---
		Dup A (dup)	---	---*	1,700	---	<53.5	---
Method 2 Migration to Groundwater, Over 40 Inch Zone (1)					230	230	9,700	9,700
Method 2 Direct Contact/Ingestion, Over 40 inch Zone (1)					8,250	8,250	8,300	8,300

- Notes:** Refer to site diagram(s) for sampling locations.
- (1) Available Method Two Cleanup Levels for Alaska Department of Environmental Conservation, June 2015.
 - Not Analyzed
 - <21.5 The Analyte Was Not Detected at a Concentration Above the Indicated Reporting Limit.
 - 26** Bold Number(s) Indicates Contaminant Detected.
 - 1,000** Bold Number(s) and Blue Shading Indicates Concentration Exceeds Method 2 Migration to Groundwater Cleanup Level.
 - 11,300** Bold Number(s) and Orange Shading Indicates Concentration Exceeds Method 2 Direct Contact/Ingestion Cleanup Level.
 - D Dilution Was Required
 - E Value Above Quantitation Limit
 - * PID Not Functioning Correctly During Sampling

TABLE 3
Soil Sample Analyses, Testpit Sampling Associated with Former Chevron Tank Farm
Former Chevron Truck Loading Rack Property, 147 Front Street, Hoonah, AK 99829

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	PID (ppmv)	C6-C10 Gasoline Range Organics (GRO)	C10-C25 Diesel Range Organics (DRO)	C25-C36 Residual Range Organics (RRO)	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Lead	Naphthalene	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Methyl tert-butyl ether (MTBE)
(units in mg/kg)					AK 101, 102, and 103			EPA 8260				EPA 6020	EPA 8260			
G-Logics 2015 Exploration																
A	4/27/2015	A-12'	0.5	---	1,210 E	29,000 E	267	0.0802	0.626	0.626 E	66 E	58.0	75.1 E	<0.0323	<0.00538	---
B	4/27/2015	B-16'	0.5	---	1,720 E	44,800 E	417	0.041 D	0.276 D	8.41 D	69.49 D	79.8	90.9 D	<0.0512	<0.00854 D	---
C	4/27/2015	C-24'	0.5	---	632 E	33,600 E	375	<0.0177	0.0274	0.122	0.7890	73.9	<0.0265	<0.0265	0.00442	---
TP-1	5/5/2015	TP-1-0.5'	0.5	---	<56.7	<94.7	<237	<0.227	<0.227	<0.340	<0.227	---	---	---	---	---
TP-2	5/5/2015	TP-2-1.5'	1.5	---	<48.8	<92.2	<230	<0.195	<0.195	<0.293	<0.195	16.8	---	---	---	---
TP-3	5/5/2015	TP-3-0.5'	0.5	---	47.7	<33.7	<84.3	<0.0582	<0.0582	<0.0873	<0.0582	---	---	---	---	---
		TP-3-2'	2	---	517	827	<251	<0.259	<0.259	3.32	3.06	---	---	---	---	---
TP-4	5/5/2015	TP-4-0.5'	0.5	---	<51.3	<87.0	<217	---	---	---	---	---	---	---	---	---
TP-5	5/5/2015	TP-5-0.5'	0.5	---	<7.13	<24.0	<59.9	---	---	---	---	---	---	---	---	---
TP-6	5/5/2015	TP-6-0.5'	0.5	---	<47.8	<98.8	<247	<0.191	<0.191	<0.287	<0.191	2.88	---	---	---	---
TP-7	5/5/2015	TP-7-0.5'	0.5	---	746 D	2,810	<86.7	---	---	---	---	---	---	---	---	---
TP-8	5/5/2015	TP-8-2'	2	---	3,880 D	45,700 E	<97.9	1.33	7.18 D	0.365	18.6 D	32.5	---	<0.101	<0.0168	<0.168
TP-9	5/5/2015	TP-9-1'	1	---	108	1,210	<54.2	<0.0218	0.0796	0.0884	0.272	---	---	---	---	---
TP-10	5/5/2015	TP-10-1.5'	1.5	---	<9.27	<22.6	<56.4	<0.0371	<0.0371	<0.0556	<0.0371	12.0	---	---	---	---
TP-11	5/5/2015	TP-11-1.5'	1.5	---	121	848	<175	---	---	---	---	---	---	---	---	---
TP-12	5/5/2015	TP-12-1'	1	---	1,050 D	17,000 E	257	---	---	---	---	69.9	---	<0.0467 H	<0.00778 H	<0.0778 H
TP-13	5/5/2015	TP-13-0.5'	0.5	---	1,000 D	6,660 E	386	<0.0261	0.071	0.150	1.27	---	---	---	---	---
TP-14	5/5/2015	TP-14-0.5'	0.5	---	<8.10	27.5	96.5	<0.0324	nd	0.081	0.075	---	---	---	---	---
TP-16	5/5/2015	TP-16-0.5'	0.5	---	26	49,100 E	1,060	---	---	---	---	---	---	---	---	---
G-Logics 2016 Exploration																
TP-17	11/4/2016	TP17-1.5'	1.5	5.0	36.3	2,140	<55.5	---	---	---	---	---	---	<0.0145 H	<0.000388 H	---
TP-18	11/4/2016	TP18-1.5'	1.5	3.9	<2.49	23.4	57.6	---	---	---	---	---	---	---	---	---

TP-19	11/4/2016	TP19-1.5'	1.5	0.0	<2.13	<20.6	<51.4	---	---	---	---	---	---	---	---	---	---
TP-20	11/4/2016	TP20-1'	1	0.0	<2.97	22.6	<48.5	---	---	---	---	---	---	---	---	---	---
TP-21	11/4/2016	TP21-1'	1	0.0	27.4	142	98.6	---	---	---	---	---	---	---	---	---	---
		TPX-1' (dup)	1	0.0	5.67	148	61.4	---	---	---	---	---	---	---	---	---	---
TP-22	11/4/2016	TP22-1'	1	0.0	<1.94	109	<54.2	---	---	---	---	---	---	---	---	---	---
Field Screening Measurements																	
FS-1	11/4/2016	FS-1	0.5	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---
FS-2	11/4/2016	FS-2	0.5	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---
Method 2 Migration to Groundwater, Over 40 Inch Zone (1)					260	230	9,700	0.025	7	7	63	N/A	20	0.016	0.00016	1.3	
Method 2 Direct Contact/Ingestion, Over 40 inch Zone (1)					1,400	8,250	8,300	120	8,300	6,600	16,600	400	1,100	75	3.4	3.4	

Notes:

Refer to site diagram(s) for sampling locations.

- (1) Available Method Two Cleanup Levels for Alaska Department of Environmental Conservation, June 2015.
- N/A Not Applicable
- Not Analyzed
- dup Blind Field Duplicate for QA/QC
- <55.5 The Analyte Was Not Detected at a Concentration Above the Indicated Reporting Limit.
- 26** Bold Number(s) Indicates Contaminant Detected.
- 1,000** Bold Number(s) and Blue Shading Indicates Concentration Exceeds Method 2 Migration to Groundwater Cleanup Level.
- 49,100** Bold Number(s) and Orange Shading Indicates Concentration Exceeds Method 2 Direct Contact/Ingestion Cleanup Level.
- <0.00388 Laboratory Detection Limit Exceeds the Applicable ADEC Cleanup Level.
- D Dilution Was Required
- E Value Above Quantitation Limit
- H Holding times for preparation or analysis exceeded

APPENDIX A

APPENDIX A

FIELD EXPLORATION METHODS

G-Logics coordinated an interim remedial excavation of petroleum-contaminated soils located on the subject property. Soil sampling of the excavation, as well as several shallow testpits, also was conducted during the exploration. All sampling work was performed by a “Qualified Person” as required by 18 AAC 75. The sampling activities were conducted in general accordance with ADEC’s guidelines and regulations.

Underground Utility Clearance

Onsite personnel performed all necessary utility locates and protection for the project.

Quality Assurance Quality Control

Quality Assurance/Quality Control (QA/QC) included generally accepted procedures for sample collection, storage, tracking, documentation, and analysis. All sampling equipment was washed with an “Alconox” wash and distilled water rinse 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.

Several blind-field duplicate samples were collected for laboratory QA/QC purposes. A soil trip blank also was included in each cooler containing samples for volatile-organic analyses.

Remedial Excavation and Testpit Soil Sampling using an Excavator

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 Table(s) and Figure(s). A small excavator was used to advance one testpit and perform the interim-remedial excavation in the area of the former truck-loading rack. Obviously contaminated soils were removed from the excavation and placed into one-cubic yard, plastic lined supersacks. Samples were collected from remaining, in-place soils.

A clean shovel or trowel was used to expose undisturbed soil at a specific location of the excavation/testpit. Soil samples were collected directly from the excavation/testpit sidewalls and bottoms and placed into laboratory-provided glass containers with Teflon lined lids.

The G-Logics employee reviewed soil samples for evidence of contamination, indicated by noticeable odor, visible staining, or discoloration on the soil sampler and in the soil sample. A portion of each soil sample was placed into a plastic bag and the collected vapors were drawn through the PID for qualitative screening of VOCs. The vapor reading was noted as the field screening result. All soil samples were labeled with a sample number, date, time, and sampler's name and were stored in an ice chest containing frozen "blue ice". Appropriate chain-of-custody documentation was completed.

Shallow Soil Sampling using Hand-Operated Equipment

A G-Logics employee performed the shallow soil sampling. A shallow testpit was hand excavated by shovel to the sampling depth. A clean spoon or trowel was then used to expose undisturbed soil. Soil samples were placed directly into laboratory-provided glass containers with Teflon lined lids.

The G-Logics employee reviewed soil samples for evidence of contamination, indicated by noticeable odor, visible staining, or discoloration on the soil sampler and in the soil sample. A portion of each soil sample was placed into a plastic bag and the collected vapors were drawn through the PID for qualitative screening of VOCs. The vapor reading was noted as the field screening result. All soil samples were labeled with a sample number, date, time, and sampler's name and were stored in an ice chest containing frozen "blue ice". Appropriate chain-of-custody documentation was completed.

APPENDIX B



G-Logics

Stuart Hyde
40 Second Ave. SE
Issaquah, WA 98027

RE: Former Chevron Truck Loading Rack

Work Order Number: 1611070

November 14, 2016

Attention Stuart Hyde:

Fremont Analytical, Inc. received 15 sample(s) on 11/7/2016 for the analyses presented in the following report.

Diesel and Heavy Oil by AK102-AK103

Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack
Work Order: 1611070

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611070-001	TREX1-SSW1-4'	11/03/2016 3:00 PM	11/07/2016 1:05 PM
1611070-002	TREX1-ESW2-2'	11/03/2016 3:10 PM	11/07/2016 1:05 PM
1611070-003	TREX1-ESW1-2'	11/03/2016 3:15 PM	11/07/2016 1:05 PM
1611070-004	TREX1-NSW2-4'	11/03/2016 3:35 PM	11/07/2016 1:05 PM
1611070-005	TREX1-NSW1-3'	11/03/2016 3:40 PM	11/07/2016 1:05 PM
1611070-006	TREX1-WSW2-4.5'	11/03/2016 3:45 PM	11/07/2016 1:05 PM
1611070-007	TREX1-WSW1-3'	11/03/2016 4:00 PM	11/07/2016 1:05 PM
1611070-008	TREX1-B1-4.5'	11/03/2016 4:05 PM	11/07/2016 1:05 PM
1611070-009	TREX1-B2-4.5'	11/03/2016 4:10 PM	11/07/2016 1:05 PM
1611070-010	SP1	11/03/2016 4:30 PM	11/07/2016 1:05 PM
1611070-011	TRTP1-B-3'	11/03/2016 9:15 AM	11/07/2016 1:05 PM
1611070-012	TRTP1-ESW-3'	11/03/2016 9:30 AM	11/07/2016 1:05 PM
1611070-013	TRTP1-ESW-2'	11/03/2016 10:00 AM	11/07/2016 1:05 PM
1611070-014	TRTP1-NSW-3'	11/03/2016 10:05 AM	11/07/2016 1:05 PM
1611070-015	Dup A	11/03/2016 4:45 PM	11/07/2016 1:05 PM

CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-DX-S), SAMPLE (1611070-004A) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Prep Comments for METHOD (PREP-DX-S), SAMPLE (1611070-002A) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: G-Logics

Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-001

Collection Date: 11/3/2016 3:00:00 PM

Client Sample ID: TREX1-SSW1-4'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390

Analyst: WC

Diesel Range Organics (C10-C25)	81.9	18.6		mg/Kg-dry	1	11/10/2016 8:40:00 PM
Residual Range Organics (C25-C36)	ND	46.4		mg/Kg-dry	1	11/10/2016 8:40:00 PM
Surr: 2-Fluorobiphenyl	92.5	50-150		%Rec	1	11/10/2016 8:40:00 PM
Surr: o-Terphenyl	95.8	50-150		%Rec	1	11/10/2016 8:40:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R32783

Analyst: BB

Percent Moisture	8.11	0.500		wt%	1	11/8/2016 8:19:47 AM
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Lab ID: 1611070-002

Collection Date: 11/3/2016 3:10:00 PM

Client Sample ID: TREX1-ESW2-2'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390

Analyst: WC

Diesel Range Organics (C10-C25)	6,820	99.5	D	mg/Kg-dry	5	11/11/2016 6:26:00 PM
Diesel Range Organics (C10-C25)	6,910	19.9	E SGT	mg/Kg-dry	1	11/11/2016 12:05:00 PM
Residual Range Organics (C25-C36)	ND	49.7	SGT	mg/Kg-dry	1	11/11/2016 12:05:00 PM
Residual Range Organics (C25-C36)	ND	49.7		mg/Kg-dry	1	11/10/2016 9:14:00 PM
Surr: 2-Fluorobiphenyl	116	50-150	SGT	%Rec	1	11/11/2016 12:05:00 PM
Surr: 2-Fluorobiphenyl	118	50-150		%Rec	1	11/10/2016 9:14:00 PM
Surr: o-Terphenyl	137	50-150	SGT	%Rec	1	11/11/2016 12:05:00 PM
Surr: o-Terphenyl	140	50-150		%Rec	1	11/10/2016 9:14:00 PM

NOTES:

SGT - Silica Gel Treatment

Sample Moisture (Percent Moisture)

Batch ID: R32783

Analyst: BB

Percent Moisture	6.20	0.500		wt%	1	11/8/2016 8:19:47 AM
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CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-003 **Collection Date:** 11/3/2016 3:15:00 PM
Client Sample ID: TREX1-ESW1-2' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390 Analyst: WC

Diesel Range Organics (C10-C25)	11,300	116	D	mg/Kg-dry	5	11/11/2016 4:07:00 PM
Residual Range Organics (C25-C36)	ND	58.2		mg/Kg-dry	1	11/10/2016 9:49:00 PM
Surr: 2-Fluorobiphenyl	166	50-150	S	%Rec	1	11/10/2016 9:49:00 PM
Surr: o-Terphenyl	176	50-150	S	%Rec	1	11/10/2016 9:49:00 PM

NOTES:

S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Sample Moisture (Percent Moisture)

Batch ID: R32783 Analyst: BB

Percent Moisture	15.5	0.500		wt%	1	11/8/2016 8:19:47 AM
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Lab ID: 1611070-004 **Collection Date:** 11/3/2016 3:35:00 PM
Client Sample ID: TREX1-NSW2-4' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390 Analyst: WC

Diesel Range Organics (C10-C25)	316	21.8	SGT	mg/Kg-dry	1	11/11/2016 1:14:00 PM
Diesel Range Organics (C10-C25)	331	21.8		mg/Kg-dry	1	11/10/2016 10:23:00 PM
Residual Range Organics (C25-C36)	ND	54.6	SGT	mg/Kg-dry	1	11/11/2016 1:14:00 PM
Residual Range Organics (C25-C36)	ND	54.6		mg/Kg-dry	1	11/10/2016 10:23:00 PM
Surr: 2-Fluorobiphenyl	90.1	50-150	SGT	%Rec	1	11/11/2016 1:14:00 PM
Surr: 2-Fluorobiphenyl	88.1	50-150		%Rec	1	11/10/2016 10:23:00 PM
Surr: o-Terphenyl	98.4	50-150	SGT	%Rec	1	11/11/2016 1:14:00 PM
Surr: o-Terphenyl	93.9	50-150		%Rec	1	11/10/2016 10:23:00 PM

NOTES:

SGT - Silica Gel Treatment

Sample Moisture (Percent Moisture)

Batch ID: R32783 Analyst: BB

Percent Moisture	9.95	0.500		wt%	1	11/8/2016 8:19:47 AM
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CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-005

Collection Date: 11/3/2016 3:40:00 PM

Client Sample ID: TRES1-NSW1-3'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	5,350	74.5	D	mg/Kg-dry	4	11/11/2016 5:16:00 PM
Residual Range Organics (C25-C36)	ND	46.6		mg/Kg-dry	1	11/10/2016 10:57:00 PM
Surr: 2-Fluorobiphenyl	149	50-150		%Rec	1	11/10/2016 10:57:00 PM
Surr: o-Terphenyl	134	50-150		%Rec	1	11/10/2016 10:57:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	8.09	0.500		wt%	1	11/8/2016 8:19:47 AM

Lab ID: 1611070-006

Collection Date: 11/3/2016 3:45:00 PM

Client Sample ID: TRES1-WSW2-4.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	42.8	18.6		mg/Kg-dry	1	11/10/2016 11:32:00 PM
Residual Range Organics (C25-C36)	ND	46.5		mg/Kg-dry	1	11/10/2016 11:32:00 PM
Surr: 2-Fluorobiphenyl	83.3	50-150		%Rec	1	11/10/2016 11:32:00 PM
Surr: o-Terphenyl	91.6	50-150		%Rec	1	11/10/2016 11:32:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	8.39	0.500		wt%	1	11/8/2016 8:19:47 AM



CLIENT: G-Logics

Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-007

Collection Date: 11/3/2016 4:00:00 PM

Client Sample ID: TREX1-WSW1-3'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	ND	21.5		mg/Kg-dry	1	11/11/2016 12:40:00 AM
Residual Range Organics (C25-C36)	ND	53.7		mg/Kg-dry	1	11/11/2016 12:40:00 AM
Surr: 2-Fluorobiphenyl	88.2	50-150		%Rec	1	11/11/2016 12:40:00 AM
Surr: o-Terphenyl	90.1	50-150		%Rec	1	11/11/2016 12:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	8.52	0.500		wt%	1	11/8/2016 8:19:47 AM

Lab ID: 1611070-008

Collection Date: 11/3/2016 4:05:00 PM

Client Sample ID: TREX1-B1-4.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	75.4	21.5		mg/Kg-dry	1	11/11/2016 2:23:00 AM
Residual Range Organics (C25-C36)	ND	53.7		mg/Kg-dry	1	11/11/2016 2:23:00 AM
Surr: 2-Fluorobiphenyl	91.4	50-150		%Rec	1	11/11/2016 2:23:00 AM
Surr: o-Terphenyl	96.9	50-150		%Rec	1	11/11/2016 2:23:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	8.37	0.500		wt%	1	11/8/2016 8:19:47 AM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-009

Collection Date: 11/3/2016 4:10:00 PM

Client Sample ID: TREN1-B2-4.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390

Analyst: WC

Diesel Range Organics (C10-C25)	152	20.6		mg/Kg-dry	1	11/11/2016 2:57:00 AM
Residual Range Organics (C25-C36)	ND	51.6		mg/Kg-dry	1	11/11/2016 2:57:00 AM
Surr: 2-Fluorobiphenyl	90.1	50-150		%Rec	1	11/11/2016 2:57:00 AM
Surr: o-Terphenyl	95.1	50-150		%Rec	1	11/11/2016 2:57:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R32783

Analyst: BB

Percent Moisture	9.35	0.500		wt%	1	11/8/2016 8:19:47 AM
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Lab ID: 1611070-010

Collection Date: 11/3/2016 4:30:00 PM

Client Sample ID: SP1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390

Analyst: WC

Diesel Range Organics (C10-C25)	2,020	38.1	D	mg/Kg-dry	2	11/11/2016 5:51:00 PM
Residual Range Organics (C25-C36)	ND	47.6		mg/Kg-dry	1	11/11/2016 3:31:00 AM
Surr: 2-Fluorobiphenyl	114	50-150		%Rec	1	11/11/2016 3:31:00 AM
Surr: o-Terphenyl	114	50-150		%Rec	1	11/11/2016 3:31:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R32783

Analyst: BB

Percent Moisture	9.95	0.500		wt%	1	11/8/2016 8:19:47 AM
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CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-011 **Collection Date:** 11/3/2016 9:15:00 AM
Client Sample ID: TRTP1-B-3' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	25.2	21.8		mg/Kg-dry	1	11/11/2016 4:06:00 AM
Residual Range Organics (C25-C36)	ND	54.5		mg/Kg-dry	1	11/11/2016 4:06:00 AM
Surr: 2-Fluorobiphenyl	86.4	50-150		%Rec	1	11/11/2016 4:06:00 AM
Surr: o-Terphenyl	88.6	50-150		%Rec	1	11/11/2016 4:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	9.78	0.500		wt%	1	11/8/2016 8:19:47 AM

Lab ID: 1611070-012 **Collection Date:** 11/3/2016 9:30:00 AM
Client Sample ID: TRTP1-ESW-3' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	79.3	21.8		mg/Kg-dry	1	11/11/2016 4:40:00 AM
Residual Range Organics (C25-C36)	ND	54.5		mg/Kg-dry	1	11/11/2016 4:40:00 AM
Surr: 2-Fluorobiphenyl	82.4	50-150		%Rec	1	11/11/2016 4:40:00 AM
Surr: o-Terphenyl	91.2	50-150		%Rec	1	11/11/2016 4:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	13.3	0.500		wt%	1	11/8/2016 8:19:47 AM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-013 **Collection Date:** 11/3/2016 10:00:00 AM
Client Sample ID: TRTP1-ESW-2' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	ND	21.8		mg/Kg-dry	1	11/11/2016 5:14:00 AM
Residual Range Organics (C25-C36)	ND	54.6		mg/Kg-dry	1	11/11/2016 5:14:00 AM
Surr: 2-Fluorobiphenyl	88.0	50-150		%Rec	1	11/11/2016 5:14:00 AM
Surr: o-Terphenyl	90.2	50-150		%Rec	1	11/11/2016 5:14:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	12.9	0.500		wt%	1	11/8/2016 8:19:47 AM

Lab ID: 1611070-014 **Collection Date:** 11/3/2016 10:05:00 AM
Client Sample ID: TRTP1-NSW-3' **Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 15390	Analyst: WC
Diesel Range Organics (C10-C25)	ND	19.9		mg/Kg-dry	1	11/11/2016 5:48:00 AM
Residual Range Organics (C25-C36)	ND	49.7		mg/Kg-dry	1	11/11/2016 5:48:00 AM
Surr: 2-Fluorobiphenyl	95.0	50-150		%Rec	1	11/11/2016 5:48:00 AM
Surr: o-Terphenyl	97.8	50-150		%Rec	1	11/11/2016 5:48:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R32783	Analyst: BB
Percent Moisture	9.95	0.500		wt%	1	11/8/2016 8:19:47 AM



CLIENT: G-Logics

Project: Former Chevron Truck Loading Rack

Lab ID: 1611070-015

Collection Date: 11/3/2016 4:45:00 PM

Client Sample ID: Dup A

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15390		Analyst: WC
Diesel Range Organics (C10-C25)	1,700	21.4		mg/Kg-dry	1	11/11/2016 6:22:00 AM
Residual Range Organics (C25-C36)	ND	53.5		mg/Kg-dry	1	11/11/2016 6:22:00 AM
Surr: 2-Fluorobiphenyl	112	50-150		%Rec	1	11/11/2016 6:22:00 AM
Surr: o-Terphenyl	111	50-150		%Rec	1	11/11/2016 6:22:00 AM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32783		Analyst: BB
Percent Moisture	8.61	0.500		wt%	1	11/8/2016 8:19:47 AM

Work Order: 1611070
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID MB-15390	SampType: MBLK	Units: mg/Kg				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: MBLKS	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623261				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	19.9		20.00		99.3	60	120				
Surr: o-Terphenyl	20.2		20.00		101	60	120				

Sample ID LCS-15390	SampType: LCS	Units: mg/Kg				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: LCSS	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623260				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	452	20.0	500.0	0	90.4	75	125				
Surr: 2-Fluorobiphenyl	21.1		20.00		106	60	120				
Surr: o-Terphenyl	21.2		20.00		106	60	120				

Sample ID 1611071-001ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: BATCH	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623245				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	1,840	22.4						2,136	14.7	30	
Residual Range Organics (C25-C36)	ND	56.1						0		30	
Surr: 2-Fluorobiphenyl	25.3		22.42		113	50	150		0		
Surr: o-Terphenyl	23.8		22.42		106	50	150		0		

Sample ID 1611071-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: BATCH	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623246				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	2,810	20.6	515.9	2,136	131	75	125				SE
Surr: 2-Fluorobiphenyl	26.9		0		0	0	0				
Surr: o-Terphenyl	24.9		0		0	0	0				

Work Order: 1611070
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID 1611071-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: BATCH	Batch ID: 15390	Analysis Date: 11/10/2016	SeqNo: 623246								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID 1611071-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: BATCH	Batch ID: 15390	Analysis Date: 11/10/2016	SeqNo: 623247								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	2,190	19.4	485.3	2,136	10.7	75	125	2,813	25.0	30	SE
Surr: 2-Fluorobiphenyl	24.5		0		0	0	0		0		
Surr: o-Terphenyl	22.8		0		0	0	0		0		

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID 1611070-006ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: TREX1-WSW2-4.5'	Batch ID: 15390	Analysis Date: 11/11/2016	SeqNo: 623393								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	ND	20.4						42.76	132	30	R
Residual Range Organics (C25-C36)	ND	51.1						0		30	
Surr: 2-Fluorobiphenyl	18.0		20.42		88.2	50	150		0		
Surr: o-Terphenyl	18.4		20.42		90.1	50	150		0		

NOTES:

R - High RPD due to suspected sample inhomogeneity. The method is in control as indicated by the Laboratory Control Sample (LCS).



Work Order: 1611070
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

Sample ID 1611075-003ADUP	SampType: DUP	Units: wt%	Prep Date: 11/8/2016	RunNo: 32783							
Client ID: BATCH	Batch ID: R32783	Analysis Date: 11/8/2016	SeqNo: 621228								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.7	0.500						10.86	1.17	20	

Client Name: **GL**

 Work Order Number: **1611070**

 Logged by: **Clare Griggs**

 Date Received: **11/7/2016 1:05:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	1.8
Sample	6.3
Temp Blank	9.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
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info@fremontanalytical.com

G-Logics

Stuart Hyde
40 Second Ave. SE
Issaquah, WA 98027

**RE: Former Chevron Truck Loading Rack
Work Order Number: 1611071**

December 08, 2016

Attention Stuart Hyde:

Fremont Analytical, Inc. received 8 sample(s) on 11/7/2016 for the analyses presented in the following report.

***Diesel and Heavy Oil by AK102-AK103
Gasoline Range Organics by AK101
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 12/08/2016

CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack
Work Order: 1611071

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611071-001	TP17-1.5'	11/04/2016 9:00 AM	11/07/2016 1:05 PM
1611071-002	TP18-1.5'	11/04/2016 9:15 AM	11/07/2016 1:05 PM
1611071-003	TP19-1.5'	11/04/2016 9:30 AM	11/07/2016 1:05 PM
1611071-004	TP20-1'	11/04/2016 9:35 AM	11/07/2016 1:05 PM
1611071-005	TP21-1'	11/04/2016 9:55 AM	11/07/2016 1:05 PM
1611071-006	TP22-1'	11/04/2016 10:30 AM	11/07/2016 1:05 PM
1611071-007	TPX-1'	11/04/2016 10:35 AM	11/07/2016 1:05 PM
1611071-008	Trip Blank	11/04/2016 12:00 AM	11/07/2016 1:05 PM

CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-001

Collection Date: 11/4/2016 9:00:00 AM

Client Sample ID: TP17-1.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15390 Analyst: WC

Diesel Range Organics (C10-C25)	2,140	22.2		mg/Kg-dry	1	11/10/2016 1:46:00 PM
Residual Range Organics (C25-C36)	ND	55.5		mg/Kg-dry	1	11/10/2016 1:46:00 PM
Surr: 2-Fluorobiphenyl	114	50-150		%Rec	1	11/10/2016 1:46:00 PM
Surr: o-Terphenyl	108	50-150		%Rec	1	11/10/2016 1:46:00 PM

Gasoline Range Organics by AK101

Batch ID: 15411 Analyst: EM

Gasoline Range Organics (C6-C10)	36.3	2.42		mg/Kg-dry	1	11/10/2016 3:30:10 PM
Surr: 1,4-Difluorobenzene	111	50-150		%Rec	1	11/10/2016 3:30:10 PM
Surr: 4-Bromofluorobenzene	79.0	50-150		%Rec	1	11/10/2016 3:30:10 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 15534 Analyst: NG

1,2-Dichloroethane (EDC)	ND	0.0145	H	mg/Kg-dry	1	11/29/2016 11:46:28 AM
1,2-Dibromoethane (EDB)	ND	0.000388	MDLH	mg/Kg-dry	1	11/29/2016 11:46:28 AM
Surr: Dibromofluoromethane	99.2	56.5-129	H	%Rec	1	11/29/2016 11:46:28 AM
Surr: Toluene-d8	101	64.3-131	H	%Rec	1	11/29/2016 11:46:28 AM
Surr: 1-Bromo-4-fluorobenzene	81.9	63.1-141	H	%Rec	1	11/29/2016 11:46:28 AM

NOTES:

MDL - Analyte reported to Method Detection Limit (MDL)

Sample Moisture (Percent Moisture)

Batch ID: R32767 Analyst: BB

Percent Moisture	11.3	0.500		wt%	1	11/7/2016 3:04:47 PM
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CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-002

Collection Date: 11/4/2016 9:15:00 AM

Client Sample ID: TP18-1.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15390		Analyst: WC
Diesel Range Organics (C10-C25)	23.4	19.9		mg/Kg-dry	1	11/10/2016 4:04:00 PM
Residual Range Organics (C25-C36)	57.6	49.7		mg/Kg-dry	1	11/10/2016 4:04:00 PM
Surr: 2-Fluorobiphenyl	90.6	50-150		%Rec	1	11/10/2016 4:04:00 PM
Surr: o-Terphenyl	92.3	50-150		%Rec	1	11/10/2016 4:04:00 PM
<u>Gasoline Range Organics by AK101</u>				Batch ID: 15411		Analyst: EM
Gasoline Range Organics (C6-C10)	ND	2.49		mg/Kg-dry	1	11/10/2016 4:06:01 PM
Surr: 1,4-Difluorobenzene	111	50-150		%Rec	1	11/10/2016 4:06:01 PM
Surr: 4-Bromofluorobenzene	80.9	50-150		%Rec	1	11/10/2016 4:06:01 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32767		Analyst: BB
Percent Moisture	12.4	0.500		wt%	1	11/7/2016 3:04:47 PM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-003

Collection Date: 11/4/2016 9:30:00 AM

Client Sample ID: TP19-1.5'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15390		Analyst: WC
Diesel Range Organics (C10-C25)	ND	20.6		mg/Kg-dry	1	11/10/2016 5:13:00 PM
Residual Range Organics (C25-C36)	ND	51.4		mg/Kg-dry	1	11/10/2016 5:13:00 PM
Surr: 2-Fluorobiphenyl	104	50-150		%Rec	1	11/10/2016 5:13:00 PM
Surr: o-Terphenyl	105	50-150		%Rec	1	11/10/2016 5:13:00 PM
<u>Gasoline Range Organics by AK101</u>				Batch ID: 15411		Analyst: EM
Gasoline Range Organics (C6-C10)	ND	2.13		mg/Kg-dry	1	11/10/2016 5:17:30 PM
Surr: 1,4-Difluorobenzene	120	50-150		%Rec	1	11/10/2016 5:17:30 PM
Surr: 4-Bromofluorobenzene	79.3	50-150		%Rec	1	11/10/2016 5:17:30 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32767		Analyst: BB
Percent Moisture	9.58	0.500		wt%	1	11/7/2016 3:04:47 PM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-004

Collection Date: 11/4/2016 9:35:00 AM

Client Sample ID: TP20-1'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15390		Analyst: WC
Diesel Range Organics (C10-C25)	22.6	19.4		mg/Kg-dry	1	11/10/2016 5:48:00 PM
Residual Range Organics (C25-C36)	ND	48.5		mg/Kg-dry	1	11/10/2016 5:48:00 PM
Surr: 2-Fluorobiphenyl	105	50-150		%Rec	1	11/10/2016 5:48:00 PM
Surr: o-Terphenyl	102	50-150		%Rec	1	11/10/2016 5:48:00 PM
<u>Gasoline Range Organics by AK101</u>				Batch ID: 15411		Analyst: EM
Gasoline Range Organics (C6-C10)	ND	2.97		mg/Kg-dry	1	11/10/2016 5:53:38 PM
Surr: 1,4-Difluorobenzene	129	50-150		%Rec	1	11/10/2016 5:53:38 PM
Surr: 4-Bromofluorobenzene	77.7	50-150		%Rec	1	11/10/2016 5:53:38 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32767		Analyst: BB
Percent Moisture	5.88	0.500		wt%	1	11/7/2016 3:04:47 PM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-005

Collection Date: 11/4/2016 9:55:00 AM

Client Sample ID: TP21-1'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15390		Analyst: WC
Diesel Range Organics (C10-C25)	142	22.2		mg/Kg-dry	1	11/10/2016 8:06:00 PM
Residual Range Organics (C25-C36)	98.6	55.5		mg/Kg-dry	1	11/10/2016 8:06:00 PM
Surr: 2-Fluorobiphenyl	89.1	50-150		%Rec	1	11/10/2016 8:06:00 PM
Surr: o-Terphenyl	93.0	50-150		%Rec	1	11/10/2016 8:06:00 PM
<u>Gasoline Range Organics by AK101</u>				Batch ID: 15411		Analyst: EM
Gasoline Range Organics (C6-C10)	27.4	6.47		mg/Kg-dry	1	11/10/2016 6:29:41 PM
Surr: 1,4-Difluorobenzene	124	50-150		%Rec	1	11/10/2016 6:29:41 PM
Surr: 4-Bromofluorobenzene	83.5	50-150		%Rec	1	11/10/2016 6:29:41 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32767		Analyst: BB
Percent Moisture	20.6	0.500		wt%	1	11/7/2016 3:04:47 PM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-006

Collection Date: 11/4/2016 10:30:00 AM

Client Sample ID: TP22-1'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>				Batch ID: 15383		Analyst: WC
Diesel Range Organics (C10-C25)	109	21.7		mg/Kg-dry	1	11/10/2016 9:12:00 AM
Residual Range Organics (C25-C36)	ND	54.2		mg/Kg-dry	1	11/10/2016 9:12:00 AM
Surr: 2-Fluorobiphenyl	81.3	50-150		%Rec	1	11/10/2016 9:12:00 AM
Surr: o-Terphenyl	84.9	50-150		%Rec	1	11/10/2016 9:12:00 AM
<u>Gasoline Range Organics by AK101</u>				Batch ID: 15411		Analyst: EM
Gasoline Range Organics (C6-C10)	ND	1.94		mg/Kg-dry	1	11/10/2016 7:05:13 PM
Surr: 1,4-Difluorobenzene	123	50-150		%Rec	1	11/10/2016 7:05:13 PM
Surr: 4-Bromofluorobenzene	65.2	50-150		%Rec	1	11/10/2016 7:05:13 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R32767		Analyst: BB
Percent Moisture	18.6	0.500		wt%	1	11/7/2016 3:04:47 PM



CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

Lab ID: 1611071-007

Collection Date: 11/4/2016 10:35:00 AM

Client Sample ID: TPX-1'

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 15383

Analyst: WC

Diesel Range Organics (C10-C25)	148	22.5		mg/Kg-dry	1	11/10/2016 9:46:00 AM
Residual Range Organics (C25-C36)	61.4	56.2		mg/Kg-dry	1	11/10/2016 9:46:00 AM
Surr: 2-Fluorobiphenyl	92.7	50-150		%Rec	1	11/10/2016 9:46:00 AM
Surr: o-Terphenyl	95.3	50-150		%Rec	1	11/10/2016 9:46:00 AM

Gasoline Range Organics by AK101

Batch ID: 15411

Analyst: EM

Gasoline Range Organics (C6-C10)	5.67	2.94		mg/Kg-dry	1	11/10/2016 7:40:38 PM
Surr: 1,4-Difluorobenzene	127	50-150		%Rec	1	11/10/2016 7:40:38 PM
Surr: 4-Bromofluorobenzene	76.0	50-150		%Rec	1	11/10/2016 7:40:38 PM

Sample Moisture (Percent Moisture)

Batch ID: R32767

Analyst: BB

Percent Moisture	18.4	0.500		wt%	1	11/7/2016 3:04:47 PM
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Lab ID: 1611071-008

Collection Date: 11/4/2016

Client Sample ID: Trip Blank

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline Range Organics by AK101

Batch ID: 15411

Analyst: EM

Gasoline Range Organics (C6-C10)	ND	5.00		mg/Kg	1	11/10/2016 2:54:23 PM
Surr: 1,4-Difluorobenzene	109	50-150		%Rec	1	11/10/2016 2:54:23 PM
Surr: 4-Bromofluorobenzene	82.4	50-150		%Rec	1	11/10/2016 2:54:23 PM

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID MB-15390	SampType: MBLK	Units: mg/Kg				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: MBLKS	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623261				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	19.9		20.00		99.3	60	120				
Surr: o-Terphenyl	20.2		20.00		101	60	120				

Sample ID LCS-15390	SampType: LCS	Units: mg/Kg				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: LCSS	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623260				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	452	20.0	500.0	0	90.4	75	125				
Surr: 2-Fluorobiphenyl	21.1		20.00		106	60	120				
Surr: o-Terphenyl	21.2		20.00		106	60	120				

Sample ID 1611071-001ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: TP17-1.5'	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623245				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	1,840	22.4						2,136	14.7	30	
Residual Range Organics (C25-C36)	ND	56.1						0		30	
Surr: 2-Fluorobiphenyl	25.3		22.42		113	50	150		0		
Surr: o-Terphenyl	23.8		22.42		106	50	150		0		

Sample ID 1611071-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 11/8/2016	RunNo: 32890				
Client ID: TP17-1.5'	Batch ID: 15390					Analysis Date: 11/10/2016	SeqNo: 623246				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	2,810	20.6	515.9	2,136	131	75	125				SE
Surr: 2-Fluorobiphenyl	26.9		0		0	0	0				
Surr: o-Terphenyl	24.9		0		0	0	0				

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID 1611071-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: TP17-1.5'	Batch ID: 15390		Analysis Date: 11/10/2016	SeqNo: 623246							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID 1611071-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: TP17-1.5'	Batch ID: 15390		Analysis Date: 11/10/2016	SeqNo: 623247							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	2,190	19.4	485.3	2,136	10.7	75	125	2,813	25.0	30	SE
Surr: 2-Fluorobiphenyl	24.5		0		0	0	0		0		
Surr: o-Terphenyl	22.8		0		0	0	0		0		

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID 1611070-006ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32890							
Client ID: BATCH	Batch ID: 15390		Analysis Date: 11/11/2016	SeqNo: 623393							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	ND	20.4						42.76	132	30	R
Residual Range Organics (C25-C36)	ND	51.1						0		30	
Surr: 2-Fluorobiphenyl	18.0		20.42		88.2	50	150		0		
Surr: o-Terphenyl	18.4		20.42		90.1	50	150		0		

NOTES:

R - High RPD due to suspected sample inhomogeneity. The method is in control as indicated by the Laboratory Control Sample (LCS).

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID MB-15383	SampType: MBLK	Units: mg/Kg	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: MBLKS	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623225							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	20.6		20.00		103	60	120				
Surr: o-Terphenyl	20.4		20.00		102	60	120				

Sample ID LCS-15383	SampType: LCS	Units: mg/Kg	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: LCSS	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623224							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	438	20.0	500.0	0	87.7	75	125				
Surr: 2-Fluorobiphenyl	21.0		20.00		105	60	120				
Surr: o-Terphenyl	20.5		20.00		102	60	120				

Sample ID 1611075-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: BATCH	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623217							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	4,410	18.1						3,629	19.4	30	E
Residual Range Organics (C25-C36)	ND	45.1						0		30	
Surr: 2-Fluorobiphenyl	24.0		18.05		133	50	150		0		
Surr: o-Terphenyl	28.1		18.05		155	50	150		0		S

NOTES:

S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Sample ID 1611075-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: BATCH	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623218							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	6,420	19.9	498.2	3,629	559	75	125				SE
Surr: 2-Fluorobiphenyl	25.2		0		0	0	0				

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID 1611075-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: BATCH	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623218							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: o-Terphenyl	31.9	0	0	0	0	0	0	0	0	0	0
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NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID 1611075-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 11/8/2016	RunNo: 32889							
Client ID: BATCH	Batch ID: 15383		Analysis Date: 11/10/2016	SeqNo: 623219							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	5,860	20.1	501.5	3,629	444	75	125	6,417	9.12	30	SE
Surr: 2-Fluorobiphenyl	24.8		0		0	0	0		0		
Surr: o-Terphenyl	30.2		0		0	0	0		0		

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID LCS-15411	SampType: LCS	Units: mg/Kg				Prep Date: 11/9/2016	RunNo: 32881				
Client ID: LCSS	Batch ID: 15411					Analysis Date: 11/10/2016	SeqNo: 623037				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	22.0	5.00	25.00	0	87.9	60	120				
Surr: 1,4-Difluorobenzene	2.39		2.500		95.6	60	120				
Surr: 4-Bromofluorobenzene	5.82		7.500		77.6	60	120				

Sample ID MB-15411	SampType: MBLK	Units: mg/Kg				Prep Date: 11/9/2016	RunNo: 32881				
Client ID: MBLKS	Batch ID: 15411					Analysis Date: 11/10/2016	SeqNo: 623038				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	ND	5.00									
Surr: 1,4-Difluorobenzene	2.68		2.500		107	60	120				
Surr: 4-Bromofluorobenzene	6.25		7.500		83.4	60	120				

Sample ID 1611071-002BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 11/9/2016	RunNo: 32881				
Client ID: TP18-1.5'	Batch ID: 15411					Analysis Date: 11/10/2016	SeqNo: 623026				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	ND	2.49						0		20	
Surr: 1,4-Difluorobenzene	1.42		1.245		114	50	150		0		
Surr: 4-Bromofluorobenzene	3.03		3.734		81.2	50	150		0		

Sample ID 1611071-005BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 11/9/2016	RunNo: 32881				
Client ID: TP21-1'	Batch ID: 15411					Analysis Date: 11/10/2016	SeqNo: 623030				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	54.7	6.47	32.33	27.40	84.5	60	120				
Surr: 1,4-Difluorobenzene	3.42		3.233		106	60	120				
Surr: 4-Bromofluorobenzene	8.71		9.700		89.8	60	120				

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID 1611071-005BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 11/9/2016	RunNo: 32881							
Client ID: TP21-1'	Batch ID: 15411		Analysis Date: 11/10/2016	SeqNo: 623031							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	59.0	6.47	32.33	27.40	97.9	60	120	54.73	7.59	20	
Surr: 1,4-Difluorobenzene	3.56		3.233		110	60	120		0		
Surr: 4-Bromofluorobenzene	8.90		9.700		91.8	60	120		0		



Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID 1611071-007ADUP	SampType: DUP	Units: wt%	Prep Date: 11/7/2016	RunNo: 32767							
Client ID: TPX-1'	Batch ID: R32767	Analysis Date: 11/7/2016	SeqNo: 620823								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.4	0.500						18.38	17.8	20	

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1611227-015BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 11/28/2016	RunNo: 33131				
Client ID: BATCH	Batch ID: 15534					Analysis Date: 11/29/2016	SeqNo: 627802				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	ND	0.0367						0		30	
1,2-Dibromoethane (EDB)	ND	0.00611						0		30	
Surr: Dibromofluoromethane	1.47		1.528		96.0	56.5	129		0		
Surr: Toluene-d8	1.53		1.528		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.53		1.528		99.8	63.1	141		0		

Sample ID 1611227-006BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 11/28/2016	RunNo: 33131				
Client ID: BATCH	Batch ID: 15534					Analysis Date: 11/29/2016	SeqNo: 627794				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	1.02	0.0323	1.077	0	94.4	51.3	139				
1,2-Dibromoethane (EDB)	1.11	0.00538	1.077	0	103	50.4	136				
Surr: Dibromofluoromethane	1.24		1.346		92.2	56.5	129				
Surr: Toluene-d8	1.38		1.346		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.38		1.346		103	63.1	141				

Sample ID 1611227-006BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 11/28/2016	RunNo: 33131				
Client ID: BATCH	Batch ID: 15534					Analysis Date: 11/29/2016	SeqNo: 627795				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	1.03	0.0323	1.077	0	95.5	51.3	139	1.016	1.23	30	
1,2-Dibromoethane (EDB)	1.10	0.00538	1.077	0	102	50.4	136	1.108	0.467	30	
Surr: Dibromofluoromethane	1.25		1.346		92.6	56.5	129		0		
Surr: Toluene-d8	1.38		1.346		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.37		1.346		102	63.1	141		0		

Work Order: 1611071
CLIENT: G-Logics
Project: Former Chevron Truck Loading Rack

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-15534	SampType: MBLK	Units: mg/Kg	Prep Date: 11/28/2016	RunNo: 33131							
Client ID: MBLKS	Batch ID: 15534		Analysis Date: 11/29/2016	SeqNo: 627807							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	ND	0.0300									
1,2-Dibromoethane (EDB)	ND	0.00500									
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.9	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.9	63.1	141				

Sample ID LCS-15534	SampType: LCS	Units: mg/Kg	Prep Date: 11/28/2016	RunNo: 33131							
Client ID: LCSS	Batch ID: 15534		Analysis Date: 11/29/2016	SeqNo: 627858							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	0.974	0.0300	1.000	0	97.4	61.9	136				
1,2-Dibromoethane (EDB)	1.02	0.00500	1.000	0	102	70	130				
Surr: Dibromofluoromethane	1.22		1.250		97.8	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141				

Client Name: **GL**
 Logged by: **Clare Griggs**

Work Order Number: **1611071**
 Date Received: **11/7/2016 1:05:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	1.8
Sample	6.3
Temp Blank	9.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

3600 Fremont Ave N,
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record and Laboratory Services Agreement

Date: 11/14/16

Laboratory Project No (internal):

1611071

Page: 1 of 1

Client: G-Logics

Project Name: Former Chevron Truck Loading Rack

Project No: 01-0194-E
Location: Hoonah, AK
Collected by: SHyder

Address: 40 2nd Ave SE

Report To (PM):

SI Hyde

City, State, Zip: Issaquah

PM Email:

shant@hyde-g-logics

Telephone: 425-341-6874

Fax:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments		
				VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	Metals ** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***		EDB (8011)	
1 TP17-1.5'	11/4	0900	S	X	X	X	X	X	X	X	X	X	X	X	X	X	AK methods/ Save for possible VOC
2 TP18-1.5'		0915		X	X	X	X	X	X	X	X	X	X	X	X	X	Save for possible VOC
3 TP19-1.5'		0930		X	X	X	X	X	X	X	X	X	X	X	X	X	Save for possible VOC
4 TP20-1'		0935		X	X	X	X	X	X	X	X	X	X	X	X	X	
5 TP21-1'		0935		X	X	X	X	X	X	X	X	X	X	X	X	X	
6 TP22-1'		1030		X	X	X	X	X	X	X	X	X	X	X	X	X	
7 TPX-1'		1035		X	X	X	X	X	X	X	X	X	X	X	X	X	
8 Trip Blank																	
9																	
10																	

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
Turn-around times for samples received after 4:00pm will begin on the following business day.

Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: 11/7/16 1305 Date/Time
 Received: 11/2/16 1305 Date/Time
 Relinquished Received

Special Remarks: Alaska Methods

Save Extract for possible Slick Gel Cleanup

TAT → SameDay NextDay 2 Day 3 Day STD
Please coordinate with the lab in advance

Laboratory Data Review Checklist

Completed by:	Stuart Hyde		
Title:	Project Geologist	Date:	Dec 14, 2016
CS Report Name:	Technical Assistance and Soil Sampling	Report Date:	
Consultant Firm:	G-Logics, Inc		
Laboratory Name:	Fremont Analytical	Laboratory Report Number:	1611070
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

not applicable

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

Sample temperature was 6.3, 0.3 outside of range.

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

e. Data quality or usability affected? (Please explain)

Comments:

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

e. Data quality or usability affected? (Please explain)

Comments:

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

v. Data quality or usability affected? (Please explain)

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain) Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain) Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None: report notes indicate that method is in control as indicated by LCS

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

vii. Data quality or usability affected? (Please explain)

Comments:

None

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

Only lab samples contained percent recoveries outside of limits

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

None

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

n/a

v. Data quality or usability affected? (Please explain.)

Comments:

n/a

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain)

Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain)

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain)

Comments:

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

Reset Form

Laboratory Data Review Checklist

Completed by:	Stuart Hyde		
Title:	Project Geologist	Date:	Dec 14, 2016
CS Report Name:	Technical Assistance and Soil Sampling	Report Date:	
Consultant Firm:	G-Logics, Inc.		
Laboratory Name:	Fremont Analytical	Laboratory Report Number:	1611071
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

Sample temperature was 6.3, 0.3 outside of range. Cooler temperature 1.8

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

e. Data quality or usability affected? (Please explain)

Comments:

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain) Comments:

b. All applicable holding times met?

Yes No NA (Please explain) Comments:

c. All soils reported on a dry weight basis?

Yes No NA (Please explain) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain) Comments:

e. Data quality or usability affected? (Please explain)

Comments:

Usability affected for sample TP17-1.5' for EDB because of PQL

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain) Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain) Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

v. Data quality or usability affected? (Please explain)

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain) Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain) Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None, report notes that method is in control as indicated by LCS

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

vii. Data quality or usability affected? (Please explain)

Comments:

No

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

No

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

No

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain) Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.) Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \frac{\text{Absolute Value of: } (R_1 - R_2)}{(R_1 + R_2)/2} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain) Comments:

GRO duplicate outside of recommended DQO. Both concentrations below Method 2 cleanup levels.

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

Reset Form

**SITE
PHOTOGRAPHS**



Description: Looking north at the former truck-loading rack assembly, prior to removal (green pin). Oil/water separator (blue pin).

Comments: The silver box was a spill catchment for the loading-rack dispenser. The fuel pipes and dispenser were removed in 2015.



Description: Looking northwest towards the former location of the truck-rack assembly (where the excavator is located).

Comments: The blue pin indicates the testpit advanced to the south of the truck-loading rack remedial excavation.



Description: Beginning the remedial excavation beside the former truck-loading rack.

Comments: Contaminated soil was removed and placed into plastic lined, one cubic-yard supersacks.



Description: An electric line was encountered running north-south across the excavation (blue pin).

Comments: Contaminated soil was left onsite due to the electrical line and the concrete slab present (just out of the photo).

Photo
5



Description: The excavation extended approximately 4.5 feet deep.

Comments: Dark gray, stained soil can be seen on the north sidewall of the excavation (blue pin).

Photo
6



Description: After accessible contaminated soil was removed, the excavation was backfilled with imported material.

Comments: This area could be capped with concrete to prevent surface-water infiltration.

Photo

7



Description: Fuel-pipe area, underneath the Hoonah Trading Company store parking lot. Looking east toward the shoreline bulk head.

Comments: The fuel pipes formerly (blue pin) were decommissioned during the tank farm removal on the adjacent property.

Photo

8



Description: View of the oil/water separator located beneath the Hoonah Trading Company store parking lot (blue pin).

Comments: The oil/water separator collects surface water runoff from the Front Street right-of-way and discharges water below the parking lot.

ATTACHMENTS

Permission and Conditions for Use and Copying Form

**Technical Assistance and Soil Sampling
Former Chevron Truck Loading Rack Property
147 Front Street
Hoonah, AK 99829**

**G-Logics Project 01-0294-E
January 11, 2017**

G-Logics prepared the above-identified Document only for our Client and/or other user(s), as identified in the Document, for the purposes stated and subject to any identified and contractual limitations. Regulatory agencies may make additional “fair use” copies for internal and public use based on state and federal laws that do not violate copyright laws.

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- I recognize that G-Logics has prepared this Document only for their Client and/or other user(s), only for the purposes stated in the Document and subject to any identified and contractual limitations.
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- I understand and accept that there may be limitations to the reliability of the Document’s findings due to circumstances beyond the control of G-Logics, the limited scope of funding, and/or limitations inherent in the nature of the performed services.
- I agree not to rely on the Document as being comprehensive or inclusive of all possible site hazards and agree to defend, indemnify, and hold G-Logics harmless from and against any and all claims, damages, or liability which arise from or which are alleged to arise from my use of the Document. I also will compensate G-Logics for any time spent or expenses incurred by G-Logics in defense of any such claim.
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I, the Requestor, have reviewed the above-identified conditions for copying/use of the Document, am familiar with the presented limitations of the provided services, and acknowledge my understanding and concurrence, as indicated by my signature below.

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With your information and signature above, please fax to G-Logics (425-313-3074) for approval review. G-Logics will share your request with our Client for their approval.

Client Review and Acknowledgment of Use and Copying Request

Per the notification of G-Logics, I, the Client, have reviewed this request for copying/use of this Document, have discussed the request with G-Logics, and grant my consent as indicated by my signature below.

Client Company _____
Client Contact Name & Title _____
Signature & Date _____
Telephone & Fax Numbers _____

G-Logics review and Acknowledgment of Use and Copying Request

Based on your concurrence with the above-presented conditions, approval of our Client, and our review of the information, G-Logics allows the Requestor to copy/use the above referenced Document for purposes stated. Additional fees may apply.

G-Logics Signature _____
Title _____
Date _____

