

# Able Clean-up Technologies, Inc.

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Environmental Services

November 27, 2017

Coleman Oil 9 Central Avenue N. Quincy, WA 98848

RE: Cleanup and Site Assessment report for Coleman Oil regarding a diesel spill located at the Coleman Oil Company in Quincy, WA.

**Report Prepared By:** Halee Love **Date:** 11/27/17

ACT Project #: 16056

### **EXECUTIVE SUMMARY**

On January 24, 2016 at 12:00 PM, Able Clean-up Technologies Inc. (ACT) was contacted by Jim Cach of Coleman Oil Company concerning a diesel spill that had occurred due to overfilling an above ground storage tank (AST). The spilled diesel leaked out of the overfill piping and is assumed to have been carried by an easterly wind into a seasonal containment pond to the west of the AST and the secondary containment. A portion of the overflow accumulated in the secondary containment. Approximately 500 gallons of dyed diesel was lost in the spill. The release site was located at 9 Central Ave in Quincy, WA.

The contaminant of potential concern, according to the Washington Department of Ecology (WDOE), was diesel. This was confirmed by the site visit. The site Contaminants of Concern (COC) will include aromatic hydrocarbons – Benzene, toluene, ethylbenzene, xylene (BTEX) and Diesel Range Total Petroleum Hydrocarbons (WTPH-DX).

ACT received a call regarding the spill at 12:00 PM and the spill response team was onsite at 5:00 PM on January 24, 2016. ACT utilized marine skirts to contain the fuel and direct it towards the shoreline of the pond located to the west of the release site so it could be skimmed off. A vacuum truck was used to pump the fluids out of the ditch and containment pond. The mixture of water and diesel, totaling 7,000 gallons, was stored onsite in totes until it could be sent for recycling through Oil Re-Refining Company (ORRCO) based out of Portland, Oregon.

In addition to recovering fluids from the ditch and pond, ACT technicians utilized absorbent pads and booms to remove free product from the ground surface. This also served to contain the spill and prevent it from migrating down gradient from the spill site.

All light non-aqueous phase liquid (LNAPL) was contained using booms and skirts and skimmed off the pond until there was no observed sheen. There was some seepage observed coming from embankment separating the secondary containment and AST's from the pond. Absorbent pads were utilized to remove free floating product in areas inaccessible using the vacuum truck. The area was monitored, and pads were replaced as needed, by Coleman Oil onsite personnel. Coleman Oil personnel also monitored the pond

during the winter of 2017 to check for a sheen when the water table was once again at, or above, surface levels.

During the initial site visit, on January 24, 2017, the question of impacted soils could not be addressed due to high water levels. On May 5<sup>th</sup>, 2016 ACT returned the site to collect soil samples from test pits using a mini-excavator, once the area was no longer submerged by seasonally high groundwater. A photo-ionization detector (PID) was used to identify potentially contaminated soils by measuring for volatile organic compounds (VOCs). Soils with high VOC readings, over 5 parts parts per million (ppm), were considered unsatisfactory and samples were collected for laboratory analysis.

A total of twenty one (21) discrete samples were collected. Samples were collected at depths ranging from six (6) to forty two (42) inches, from the previous location of the seasonal containment pond and from the path the spill followed (see sample location map). All analytical samples were collected using EPA method 5035. The samples, once collected, were immediately placed into a cooler and sent to Anatek Labs for chemical analysis under a chain of custody.

Of the 21 samples collected, three samples were above Washington State Ecology MTCA cleanup levels. These were samples QCO-TP6S, QCO-TP6D, and QCO-TP11S (see analytical results Table 1). The samples were collected directly adjacent to the secondary containment (see sample location map – Attachment I), where excavation of contaminated soils was not possible without damaging the structural integrity of the secondary containment. It is suspected that product had collected under the secondary containment during high water, and remained in the soil once the water retreated. The secondary containment sits on non-native fill material, which differs in permeability to the native soils on site and could explain the leaching of contaminants to the affected areas.

On July 11, 2016 ACT returned to the site, after conferring with WDOE and Coleman Oil, and applied microblaze bio-remediation solution to areas with a high concentration of contaminants where excavating contaminated soils was not possible.

ACT took another round of confirmation samples on November 7, 2016. Three samples were collected at this time and transported to Anatek Labs in Spokane, WA. Results from laboratory analysis revealed that two samples were still above MTCA cleanup levels. These were samples QCO-TP6S and QCO-TP6D, both taken in the same location, adjacent to the secondary containment unit, at varying depths. The concentration of contaminants in these samples was higher than in the initial round of samples taken on May 5<sup>th</sup>, 2016. Rising groundwater levels are thought to be responsible for mobilizing contaminants, which had accumulated under the secondary containment, still in use by Coleman Oil, resulting in a high concentration of contaminants in that location.

Due to the presence of piping extending beyond the secondary containment, excavation of contaminated soil was not recommended. After contacting WDOE and Coleman Oil Co., it was decided to continue taking periodical soil samples and to treat contaminated soils using bio-remediation.

More sampling was conducted on May 15, 2017. Analytical results show that only sample QCO-TP6S, taken at a depth of six inches, was still above MTCA cleanup levels for diesel.

A sample of QCO-TP6S was collected on August 17, 2017. Analytical results were ND for BTEX and lube oil, and 916 mg/kg for diesel which is under MTCA cleanup values.

### I. GENERAL INFORMATION

Coleman Oil Quincy
Jim Cach
9 Central Avenue N.
Quincy, WA 98848
209-791-6288

Site location of the release: Coleman Oil Bulk Plant located at 9 North Central Ave in Quincy, WA.

### II. RELEASE INFORMATION

Α.	Date/Time of release:	January 24, 2016 around 12:00 PM
	Date/Time ACT contacted:	January 24, 2016 12:00 PM
	ACT Representative:	Chuck Lott / Halee Love

- B. Release was reported to: Washington Department of Ecology City of Quincy Fire Department John Roach – Federated Insurance Able Clean-up Technologies Inc.
- C. **Type/Quantity/Physical State of Release:** Approximately 500 gallons of dyed liquid diesel.
- D. The release affected the: Ditch and pond adjacent the Coleman Oil Bulk Storage Facility.
- E. **Nearest surface water body to the release site**: The spilled diesel leaked out of the overfill piping and was carried by the wind into a seasonal containment pond to the west of the facility. The pond is thought to be fed by seasonal surface water runoff and groundwater.
- F. Has the release reached the surface water identified above?: Yes
- G. Could the release potentially reach the surface water body?: Yes
- H. **Has the release reached the nearest groundwater?:** The spill occurred when groundwater levels were at or near the ground surface. All LNAPL was contained using booms and skimmed off the surface of seasonal containment pond using a vacuum truck.
- I. Has the release affected the air?: No

- J. Was there a threat to public safety caused by this release?: No
- K. Is there a potential for future/continued release from this incident? No

### **III. SITE INFORMATION**

- A. Adjacent land uses: Residential, Commercial
- B. What is the population density surrounding the site? Low to medium density
- C. Soil Types: silt/sandy loam (MH)
- **D. Immediate site topography (all that apply**): Spill occurred on nearly level ground. A portion of the spilled product leaked into secondary containment, an easterly wind carried the remaining product leaking from the overflow piping into a depression (containment pond) to the west of the AST.

# IV. CLEANUP INFORMATION

- A. Was site cleanup performed? Yes
- **B.** Who performed the cleanup of the release?

Able Cleanup Technologies 4117 E Nebraska Ave. Spokane, WA 99217

ACT Project Manager:	Kipp Silver
ACT Emergency Response Supervisor:	Chuck Lott
ACT Cleanup Supervisor:	Halee Love

- C. Has all contamination from this release been removed from the site? Yes, all LNAPL was removed from the surface of the seasonal containment pond using a vacuum truck. A bio-remediant solution was applied to the areas where concentration of contaminants exceeded MTCA cleanup values, and soils could not be excavated. Soil samples were collected in these locations until analytical tests showed that all sample locations were under cleanup values.
- **D.** Estimated volume of contaminated soil removed: n/a
- **E. Estimated volume of contaminated soil left in place:** No soil was removed from the site, soil was monitored until all samples were ND or below MTCA cleanup values
- **F. Depth of excavation:** n/a

- G. Was a hazardous waste determination made for cleanup materials? Yes
- H. Based on the determination, are the cleanup materials a hazardous waste? No
- **I. Was contaminated material or water disposed of at an off-site location?** Yes, the diesel and water mixture was sent for recycling at ORRCO.
- J. Is contaminated soil or water being stored and/or treated on-site? Yes, contaminated soil was treated using bio-remediant enzymes.
- K. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc.
   Outlined in the Executive Summary

V. SAMPLING INFORMATION

- **A.** Were samples of contaminated soils collected? Yes, samples were analyzed for BTEX and TPH-Diesel Range.
- B. Were samples of contaminated water collected? No

### C. Were samples collected to show that all contamination has been removed?

Yes, 21 confirmation samples were initially collected on May 5, 2016. Sample locations that were above cleanup values (see sample location map) were periodically sampled until analytical results showed that the soils were either ND or under MTCA cleanup values.

### D. Sampling activities, results, and discussions:

21 confirmation samples were collected from test pits across the area where the spill had occurred on May 5, 2016. Three samples, QCO-TP-6S, QCO-TP-6D, and QCO-TP-11S, were above cleanup values for diesel (see Table 1. for analytical results).

Following the initial sampling event, a bio-remediant solution was applied to aid in the natural attenuation of contaminants.

Another round of sampling was conducted on November 7, 2016 to measure the concentrations of contaminants in the areas that previous analytical tests had shown to be above cleanup values (see sample location map). Sample QCO-TP-11S was below cleanup values for diesel and all other contaminants. Analytical results show that the concentration of contaminants had increased in samples QCO-TP-6S and QCO-TP-6D (see analytical results Table 2). It is suspected that rising groundwater levels were responsible for mobilizing contaminants, causing the smear zone to rise. After discussing the matter with WDOE and Coleman Oil Co., it was decided that periodic sampling would take place to monitor the natural attenuation of contaminants.

Samples collected on May 15, 2017 showed that the concentration of contaminants was decreasing in samples QCO-TP-6S and QCO-TP-6D. The results of this sampling showed that sample QCO-TP-6D was below cleanup values, however QCO-TP-6S was still over the limit for diesel.

A sample of QCO-TP-6S collected on August 17, 2017 showed that this sample was under cleanup values. Refer to analytical results of the above mentioned samples.

# ANALYTICAL RESULTS

The following analytical results contain: field sample number, analytical results reported by Anatek Labs, location of the sample and rationale for taking the sample. The location of sample collection was determined by headspace analysis conducted where the spill occurred, namely the site of the retention pond and the area to the south of the secondary containment unit. Samples in bold denote a contaminant concentration in excess of MTCA cleanup values.

# ANALYTICAL RESULTS FOR SAMPLES COLLECTED ON MAY 5, 2016

QCO-TP-1S: HS – 2.7 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral extent of the spill in that direction.

QCO-TP-1D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 24 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-2S: HS – 7.4 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral extent of the spill in that direction.

QCO-TP-2D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 24 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-3S: HS - 2 ppm, Benzene – ND µg/kg, Ethylbenzene – ND µg/kg, Methyl-t-butyl ether (MTBE) – ND µg/kg, Toluene – ND µg/kg, Total Xylene – ND µg/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

QCO-TP-3D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – 35.1 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 16 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-4S: HS – 2.5 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

QCO-TP-4D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 36 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-5S: HS – 25.3 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral extent of the spill in that direction.

QCO-TP-5D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 36 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

**QCO-TP-6S**: HS – 44.5 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – 541  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 136  $\mu$ g/kg, Total Xylene – 7,280  $\mu$ g/kg, **Diesel – 7,060 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

**QCO-TP-6D**: HS – 55 ppm, Benzene – 92.5  $\mu$ g/kg, Ethylbenzene – 82.9  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 49.3  $\mu$ g/kg, Total Xylene – 467  $\mu$ g/kg, **Diesel – 6,020 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 42 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-7S: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 54.0  $\mu$ g/kg, Total Xylene – 28.6  $\mu$ g/kg, Diesel – 84.5 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral and vertical extent of the spill in that direction.

QCO-TP-8S: HS - 0 ppm, Benzene – ND µg/kg, Ethylbenzene – ND µg/kg, Methyl-t-butyl ether (MTBE) – ND µg/kg, Toluene – ND µg/kg, Total Xylene – ND µg/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral and vertical extent of the spill in that direction.

QCO-TP-9S: HS - 0 ppm, Benzene – ND µg/kg, Ethylbenzene – ND µg/kg, Methyl-t-butyl ether (MTBE) – ND µg/kg, Toluene – ND µg/kg, Total Xylene – ND µg/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral and vertical extent of the spill in that direction.

QCO-TP-10S: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral and vertical extent of the spill in that direction.

**QCO-TP-11S**: HS –50 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – 64.2  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 26.0  $\mu$ g/kg, Total Xylene – 1,540  $\mu$ g/kg, **Diesel – 5,440 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

QCO-TP-11D: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – 41.9 $\mu$ g/kg, Toluene – 35.5  $\mu$ g/kg, Total Xylene – 44.4  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 16 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-12S: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 28.6  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – 35.5 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

QCO-TP-13S: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – 28.7  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral extent of the spill in that direction.

QCO-TP-14S: HS – 0 ppm, Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – 66.3  $\mu$ g/kg, Diesel – ND mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the lateral extent of the spill in that direction.

# TABLE 1. ANALYTICAL RESULTS

Sample ID Number: QCO-TP-1S Sample Da				ay 5, 2016	<b>HS:</b> 2.	7 ppm	
Sample Location: to the south of the secondary containment unit			Sample D	epth (ft): 6 in	ches	Matr	<b>ʻix:</b> Soil
Chemical of Concern	Method	]	PQL	MTCA Clear	nup Lev	vels	Results
Benzene	EPA 8021	. 4	25 µg/kg	30 µg/kg			ND µg/kg
Ethylbenzene	EPA 8021	. 4	25 µg/kg	6,000 µg/kg			ND µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	. 4	25 µg/kg	100 µg/kg			ND µg/kg
Toluene	EPA 8021	. 4	25 µg/kg	7,000 µg/kg			ND µg/kg
Total Xylene	EPA 8021	. 4	25 µg/kg	9,000 µg/kg			ND µg/kg
Diesel	NWTPHE	DX 2	25 mg/kg	2,000 mg/kg			ND mg/kg
Lube Oil	NWTPHE	DX 1	100 mg/kg	2,000 mg/kg			ND mg/kg
Sample ID Number: QCO-TP-1DSample Date: May 5, 2016HS: 0 ppmSample Location: to the south of the secondary containmentSample Depth (ft): 24 inchesMatrix: Soil					<b>ix:</b> Soil		
Chemical of Concern	Method	]	PQL	MTCA Clea	nup Lev	vels	Results
Benzene	EPA 8021	. 4	25 µg/kg	30 µg/kg			ND µg/kg
Ethylbenzene	EPA 8021	. 4	25 µg/kg	6,000 µg/kg			ND µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	. 4	25 µg/kg	100 µg/kg			ND µg/kg
Toluene	EPA 8021	. 4	25 µg/kg	7,000 µg/kg			ND µg/kg
Total Xylene	EPA 8021	. 4	25 µg/kg	9,000 µg/kg			ND µg/kg
Diesel	NWTPHE	DX 2	25 mg/kg	2,000 mg/kg			ND mg/kg
Lube Oil	NWTPHE	DX (	K 100 mg/kg 2,000 mg/kg				ND mg/kg
Sample ID Numbers OCO TD 28 Sample Date: May 5, 2016 US: 7.4 apr							
Sample ID Number: QCO-1P-2S Samp Sample Location: to the south of the secondary containment			Sample D	epth (ft): 6 in	ches	Matr	ix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg

Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg
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Sample ID Number: QCO-TP-2D	Samp	le Date: May 5, 2016	<b>HS:</b> 0	ppm
Sample Location: to the south of the		Sample Donth (ft) · 24 in	nchas	Matrix: Sail
secondary containment		Sample Depth (It). 24 II	lenes	Matrix. Soli

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-3S	Sample Date: May 5, 2016			ppm
Sample Location: to the south of the		Sample Donth (ft). 6 in	chas	Matrix: Soil
secondary containment		Sample Depth (It): 0 m	LIIES	

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-3D	Sample Date: May 5, 2016         HS: 0 ppm	
Sample Location: to the south of the	Sample Depth (ft): 16 inches Matrix: Soil	
secondary containment		

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 μg/kg	ND µg/kg

Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	35.1 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-4S	Sample Date: May 5, 2016		<b>HS:</b> 2.5 ppm	
<b>Sample Location:</b> to the south of the secondary containment		Sample Depth (ft): 6 inc	ches	Matrix: Soil

<b>Chemical of Concern</b>	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-4D	Sample Date: May 5, 2016	<b>HS:</b> 0 ppm	
Sample Location: to the south of the	Sample Depth (ft): 36 inches	Matrix: Soil	
secondary containment			

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-5S	Samp	le Date: May 5, 2016	<b>HS:</b> 25	5.3 ppm
Sample Location: to the south of the	Sample Donth (ft): 6 inc		chas	Matrix: Sail
secondary containment		Sample Depth (It). 0 Ind		

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg

Total Xylene	EPA 8021	25 µg/kg	9,000 μg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-5D	<b>ample Date:</b> May 5, 2016 <b>HS:</b> 0	ppm
<b>Sample Location:</b> to the south of the secondary containment	Sample Depth (ft): 36 inches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 μg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-6S	Sample Date: May 5, 2016		<b>HS:</b> 44	l.5 ppm
<b>Sample Location:</b> to the south of the secondary containment		Sample Depth (ft): 6 in	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	541 µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	136 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	7,280 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	7,060 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-6D	Sample Date: May 5, 2016		<b>HS:</b> 55 ppm	
Sample Location: to the south of the		Sample Donth (ft): 12 is	nahaa	Matrix: Sail
secondary containment	Sample Depth (It): 42 If		liches	Matrix. Soli

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	92.5 µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	82.9 µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				

Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	49.3 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	467 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	6,020 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-7S	Sample Date: May 5, 2016		<b>HS:</b> 0 ppm	
<b>Sample Location:</b> to the south of the secondary containment		Sample Depth (ft): 6 ind	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	54.0 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	28.6 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	84.5 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-8S	Sample Date: May 5, 2016		<b>HS:</b> 0 ppm	
Sample Location: to the south of the		Sample Denth (ft). 6 in	hes	Matrix: Soil
secondary containment		Sample Depth (It). 0 Ind	1105	Man IX. Son

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-9S	Samp	le Date: May 5, 2016	<b>HS:</b> 0	ppm
<b>Sample Location:</b> area previously covered by		Sample Depth (ft): 6 inc	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg

(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-10S	Samp	le Date: May 5, 2016	<b>HS:</b> 0	ppm
<b>Sample Location:</b> area previously cover seasonal retention pond	red by	Sample Depth (ft): 6 ind	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-11S	Sample Date: May 5, 2016		<b>HS:</b> 50 ppm	
<b>Sample Location:</b> area previously covered by seasonal retention pond		Sample Depth (ft): 6 ind	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	64.2 µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	26.0 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	1,540 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	5,400 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-11D	Sample Date: May 5, 2016		<b>HS:</b> 0 ppm	
Sample Location: area previously cover	Sample Donth (ft), 16 i	nahaa	Matrix, Sail	
seasonal retention pond		Sample Depth (It). 10 h	iches	Matrix. Soli

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg

Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	41.9 µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	35.5 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	44.4 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-12S	Sample Date: May 5, 2016		<b>HS:</b> 0	ppm
Sample Location: area previously covered by		Sample Donth (ft): 6 in	ahas	Matrix: Sail
seasonal retention pond		Sample Depth (It). 0 Ind	.1105	Watta. Son

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	28.6 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	35.5 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-13S	Samp	le Date: May 5, 2016	<b>HS:</b> 0 ]	ppm
<b>Sample Location:</b> area previously covered by seasonal retention pond		Sample Depth (ft): 6 ind	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	28.7 µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-14S	Sample Date: May 5, 2016		<b>HS:</b> 0 ppm	
<b>Sample Location:</b> area previously covered by seasonal retention pond		Sample Depth (ft): 6 inc	ches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results

Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 μg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 μg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 μg/kg	66.3 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	ND mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

### **ANALYTICAL RESULTS FOR SAMPLES COLLECTED ON NOVEMBER 7, 2016**

**QCO-TP-6S**: Benzene – ND  $\mu$ g/kg, Ethylbenzene – 486  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – 1,000  $\mu$ g/kg, **Diesel – 17,100 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

**QCO-TP-6D**: Benzene – ND  $\mu$ g/kg, Ethylbenzene – 507  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene –ND  $\mu$ g/kg, Total Xylene – 7,860  $\mu$ g/kg, **Diesel – 18,000 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 42 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

QCO-TP-11S: Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – 164 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

Sample ID Number: QCO-TP-6SSample		Sample Date: November 7	7, 2016
Sample Location: to the south of the	Sample Depth (ft): 6 inches		Matrix. Soil
secondary containment	Sam	pie Deptii (it). 0 menes	Matrix. 5011

# **TABLE 2. ANALYTICAL RESULTS**

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	486 µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	1,000 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	17,100 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-6D	Sample Date: November 7	Sample Date: November 7, 2016	
Sample Location: to the south of the	Sample Donth (ft): 12 inches	Motrixe Soil	
secondary containment	Sample Depth (It): 42 menes	Matrix: Son	

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	507 µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 μg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	7,860 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	18,000 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-11S	Sample Date: November 7	Sample Date: November 7, 2016	
<b>Sample Location:</b> area previously covered by seasonal containment pond	Sample Depth (ft): 6 inches	Matrix: Soil	

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	164 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

### ANALYTICAL RESULTS FOR SAMPLES COLLECTED ON MAY 15, 2017

**QCO-TP-6S**: Benzene – ND  $\mu$ g/kg, Ethylbenzene – <100  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – 91.1  $\mu$ g/kg, **Diesel – 8,750 mg/kg**, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

QCO-TP-6D: Benzene – ND  $\mu$ g/kg, Ethylbenzene – <100  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene –ND  $\mu$ g/kg, Total Xylene – 96.5  $\mu$ g/kg, Diesel – 1,870 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 42 inches, in the area affected by the diesel spill where contamination was most likely to occur. Sample location delineates the vertical extent of the contamination from the petroleum release.

# TABLE 3. ANALYTICAL RESULTS

Sample ID Number: QCO-TP-6S		Sample Date: May 15, 201	17
Sample Location: to the south of the	Sample Depth (ft): 6 inches		Matrix: Soil
secondary containment			

<b>Chemical of Concern</b>	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	<100 µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	91.1 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	8,750 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

Sample ID Number: QCO-TP-6D	Sample Date: May 15, 20	17
Sample Location: to the south of the secondary containment	Sample Depth (ft): 42 inches	Matrix: Soil

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg
Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	<100 µg/kg
Methyl-t-butyl ether (MTBE)	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 µg/kg	96.5 µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	1,870 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

# ANALYTICAL RESULTS FOR SAMPLES COLLECTED ON JULY 17, 2017

QCO-TP-6S: Benzene – ND  $\mu$ g/kg, Ethylbenzene – ND  $\mu$ g/kg, Methyl-t-butyl ether (MTBE) – ND  $\mu$ g/kg, Toluene – ND  $\mu$ g/kg, Total Xylene – ND  $\mu$ g/kg, Diesel – 916 mg/kg, Lube Oil – ND mg/kg. This sample was taken at a depth of 6 inches, in the area affected by the diesel spill where contamination was most likely to occur.

# TABLE 4. ANALYTICAL RESULTS

Sample ID Number: QCO-TP-6S	Sample Date: May 15, 201	Sample Date: May 15, 2017	
Sample Location: to the south of the	Sample Depth (ft): 6 inches	Motrix: Soil	
secondary containment	Sample Depth (It): 0 menes		

Chemical of Concern	Method	PQL	MTCA Cleanup Levels	Results
Benzene	EPA 8021	25 µg/kg	30 µg/kg	ND µg/kg

Ethylbenzene	EPA 8021	25 µg/kg	6,000 µg/kg	ND µg/kg
Methyl-t-butyl ether	EPA 8021	25 µg/kg	100 µg/kg	ND µg/kg
(MTBE)				
Toluene	EPA 8021	25 µg/kg	7,000 µg/kg	ND µg/kg
Total Xylene	EPA 8021	25 µg/kg	9,000 μg/kg	ND µg/kg
Diesel	NWTPHDX	25 mg/kg	2,000 mg/kg	916 mg/kg
Lube Oil	NWTPHDX	100 mg/kg	2,000 mg/kg	ND mg/kg

ND = Not Detected

PQL = Practical Quantitation Limit

Bold = Over Screening level concentrations for soil

### CONCLUSION

The initial round of sampling showed that several areas were above cleanup values for diesel, samples QCO-TP-6S, QCO-TP-6D, and QCO-TP-11S. Periodic sampling was conducted until all samples were under cleanup values. This is according to MCTA Cleanup Regulations Chapter 173-340 WAC, Table 740-1 Method A Soil Cleanup Levels for Unrestricted Land Uses, November, 2013. As of August 17, 2017 all samples collected met this criteria.

It is the recommendation of Able Clean-up Technologies that no further site remediation take place at: the Coleman Oil Bulk Facility at 9 Central Ave. North, in Quincy, WA. This is based on visual appearance of the pond which includes no LNAPL or sheen and analytical sampling from the soils. This recommendation is only in relation to the Coleman Oil Co. fuel release on January 24, 2016.

This report has been prepared on behalf of, and for, the exclusive use by Coleman Oil Company for their environmental evaluation of the site. This report and the findings herein shall not, in whole or in part, be disseminated or conveyed to any other party without the prior consent of Able Clean-up Technologies Inc. This report has been prepared in accordance with generally accepted land use assessment practices. No other warranty, expressed or implied, is made.

Sincerely,

Halee Love

Halee Love Environmental Technician

CC: Bill Fee, Washington State Department of Ecology Mark Stevens, Washington State Department of Ecology John Roach, Federated Insurance Site Location Map: Analytical: Photographs of Site: Sampling and Analysis Plan: Attachment I Attachment II Attachment III Attachment IV

# ATTACHMENT I

Site Maps





Figure 1. Image showing locations where soil samples were collected, HS indicates VOC readings using a photo-ionization detector.

Attachment II Analytical Results And Chain of Custody

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-001 QCO-TP-1S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/T Extrac	ime Receiv tion Date	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 12:3	32:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 12:3	32:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 12:3	32:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 12:3	32:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 12:3	32:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/13/2016 10:	05:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/13/2016 10:	05:00 PN	A APM	NWTPHDX	
%moisture		14	Percent		5/6/2015 1:3	0:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
Sample Number	160506006-001								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		9	6.0	70-1	30
hexacosane			NWTPH	IDX		8	7.0	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL[NELAP]: E871099

Thursday, May 19, 2016

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Anatek Labs, Inc. 1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-002 QCO-TP-1D Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/T Extrac	ime Receiv	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 1:1	10:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 1:1	10:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 1:1	10:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 1:1	10:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 1:1	10:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/13/2016 11	:01:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/13/2016 11	:01:00 PN	APM	NWTPHDX	
%moisture		16.6	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-002								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		9	3.1	70-1	30
hexacosane			NWTPH	DX		8	9.2	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-003 QCO-TP-2S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/5/2016 1:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	s Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 1:	48:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 1:	48:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 1:	48:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 1:	48:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 1:	48:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/13/2016 11	1:56:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/13/2016 11	1:56:00 PN	APM	NWTPHDX	
%moisture		15.8	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
ample Number	160506006-003								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	obenzene		EPA 80	21		9	6.7	70-1	30
hexacosane			NWTPH	DX		8	7.6	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-004 QCO-TP-2D Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/T Extrac	Time Receiv Stion Date	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 2:2	6:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 2:2	6:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 2:2	6:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 2:2	6:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 2:2	6:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 12:	52:00 AM	M APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 12:	52:00 AM	M APM	NWTPHDX	
%moisture		17.7	Percent		5/6/2016 1:3	0:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
Sample Number	160506006-004								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		8	9.3	70-1	30
hexacosane			NWTPH	DX		9	0.8	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-005 QCO-TP-3S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv	ved 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 3:0	4:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 3:0	4:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 3:0	4:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 3:0	4:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 3:0	4:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 1:	47:00 AN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 1:	47:00 AN	APM	NWTPHDX	
%moisture		17.1	Percent		5/6/2016 1:3	0:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-005								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 803	21		9	1.9	70-1	30
hexacosane			NWTPH	DX		8	5.8	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-006 QCO-TP-3D Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv Stion Date	ved 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 4:5	58:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 4:5	58:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 4:5	58:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 4:5	58:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 4:5	58:00 PM	RAW	EPA 8021	
Diesel		35.1	mg/kg	25	5/14/2016 2:	42:00 AN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 2:	42:00 AN	APM	NWTPHDX	
%moisture		19.1	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-006								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	4-Bromofluorobenzene		EPA 803	21		9	0.9	70-1	30
hexacosane			NWTPH	DX		9	3.0	50-150	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-007 QCO-TP-4S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv	ved 5/8/2018	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 5:3	36:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 5:3	36:00 PM	RAW	EPA 8021	
methyl-t-butyl e	ether (MTBE)	ND	µg/Kg	25	5/9/2016 5:3	36:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 5:3	36:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 5:3	36:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 3:	37:00 AN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 3:	37:00 AN	APM	NWTPHDX	
%moisture		12.5	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-007								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	4-Bromofluorobenzene		EPA 802	21		100.0		70-130	
hexacosane			NWTPH	DX		8	9.6	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C895 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C685; MT:Cer0095; FL[NELAP]: E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-008 QCO-TP-4D Soil		Sampling Da Sampling Tii Sample Loca	nte me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv	ved 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 6:1	4:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 6:1	4:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 6:1	4:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 6:1	4:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 6:1	4:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 4:	32:00 AN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 4:	32:00 AN	APM	NWTPHDX	
%moisture		15.8	Percent		5/6/2016 1:3	80:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
ample Number	160506006-008								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	4-Bromofluorobenzene		EPA 80	21		9	2.2	70-130	
hexacosane			NWTPHDX 92.8				50-1	50-150	

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP);E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-009 QCO-TP-5S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 D 1:00 PM E	)ate/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis Dat	te	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 6:52:0	0 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 6:52:0	0 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 6:52:0	0 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 6:52:0	0 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 6:52:0	0 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 5:27:0	00 AM	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 5:27:0	00 AM	APM	NWTPHDX	
%moisture		11.9	Percent		5/6/2016 1:30:0	0 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-009								
Surrogate S	tandard		Method		Per	rcent	Recovery	Control	Limits
4-Bromofluor	4-Bromofluorobenzene		EPA 803	21		10	1.0	70-1	30
hexacosane			NWTPHDX 02.6				2.6	50-150	

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL[NELAP]: E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-010 QCO-TP-5D Soil		Sampling Da Sampling Tii Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/9/2016 7:3	30:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/9/2016 7:3	30:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/9/2016 7:3	30:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/9/2016 7:3	30:00 PM	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/9/2016 7:3	30:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 6:	22:00 AN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 6:	22:00 AN	APM	NWTPHDX	
%moisture		22.1	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-010								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	4-Bromofluorobenzene		EPA 80	21		8	3.6	70-130	
hexacosane	hexacosane		NWTPH	DX		92.8 50-150			

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP);E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-011 QCO-TP-6S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/Ti Extract	ime Receiv tion Date	red 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 12	:56:00 PM	RAW	EPA 8021	
Ethylbenzene		541	µg/Kg	25	5/10/2016 12	:56:00 PM	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 12	:56:00 PM	RAW	EPA 8021	
Toluene		136	µg/Kg	25	5/10/2016 12	:56:00 PM	RAW	EPA 8021	
Total Xylene		7280	µg/Kg	25	5/10/2016 12	:56:00 PM	RAW	EPA 8021	
Diesel		7060	mg/kg	25	5/16/2016 9	:50:00 PM	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/16/2016 9	:50:00 PM	APM	NWTPHDX	
%moisture		15.5	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
Sample Number	160506006-011								
Surrogate S	tandard		Method			Percent P	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		83	3.5	70-1	30
hexacosane		ane NWTPHDX 98.8			50-1	50-150			

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL[NELAP]: E871099

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Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

### Analytical Results Report

Sample Number         160506006-012           Client Sample ID         QCO-TP-6D           Matrix         Soil           Comments         Soil			Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/Time Received 5/8/201 Extraction Date		ved 5/8/2016	3 10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		92.5	µg/Kg	25	5/10/2016 1:	34:00 PM	RAW	EPA 8021	
Ethylbenzene		82.9	µg/Kg	25	5/10/2016 1:	34:00 PM	RAW	EPA 8021	
methyl-t-butyl	methyl-t-butyl ether (MTBE)		µg/Kg	25	5/10/2016 1:	34:00 PM	RAW	EPA 8021	
Toluene		49.3	µg/Kg	25	5/10/2016 1:	34:00 PM	RAW	EPA 8021	
Total Xylene		467	µg/Kg	25	5/10/2016 1:	34:00 PM	RAW	EPA 8021	
Diesel		6020	mg/kg	25	5/16/2016 10	:46:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/16/2016 10	:46:00 PN	APM	NWTPHDX	
%moisture		18.1	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-012								
- Surrogate Standard			Method			Percent Recovery		Control Limits	
4-Bromofluorobenzene			EPA 8021		80.2		70-130		
hexacosane			NWTPHDX		97.2		50-150		

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL[NELAP]: E871099

Thursday, May 19, 2016

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Client: ABLE CLEAN-UP TECHNOLOGIES, INC. Address: 4117 E. NEBRASKA AVE SPOKANE, WA 99217

Attn: FLAVIO ISHIHURA

Batch #:	160506006
Project Name:	QUINCY COLEMAN OIL

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-013 QCO-TP-7S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/I Extrac	Time Receiv	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 2:	12:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 2:	12:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 2:	12:00 PN	RAW	EPA 8021	
Toluene		54.0	µg/Kg	25	5/10/2016 2:	12:00 PN	RAW	EPA 8021	
Total Xylene		28.6	µg/Kg	25	5/10/2016 2:	12:00 PN	RAW	EPA 8021	
Diesel		84.5	mg/kg	25	5/14/2016 2:	40:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 2:	40:00 PN	APM	NWTPHDX	
%moisture		15.2	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-013								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 802	21		10	01.0	70-1	30
hexacosane			NWTPH	DX		8	5.4	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS95; MT:Cert0095; FL(NELAP): E871099

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Client: ABLE CLEAN-UP TECHNOLOGIES, INC. Ba Address: 4117 E. NEBRASKA AVE Pr SPOKANE, WA 99217

Attn: FLAVIO ISHIHURA

Batch #:	160506006
Project Name:	QUINCY COLEMAN OIL

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-014 QCO-TP-8S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/5/2016 1:00 PM	Date/T Extrac	ime Receiv tion Date	ved 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	a Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 2	:49:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 2	:49:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 2	:49:00 PN	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/10/2016 2	:49:00 PN	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/10/2016 2	:49:00 PN	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 3	:37:00 PN	APM .	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 3	:37:00 PN	APM .	NWTPHDX	
%moisture		16.7	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-014								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		9	1.2	70-1	30
hexacosane			NWTPH	DX		8	7.6	50-1	50

Certifications held by Anatek Labs ID: EPA:I000013; A2:0701; CO:I000013; FL(NELAP):E87893; ID:I000013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-015 QCO-TP-9S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	5 Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 3	:27:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 3	:27:00 PN	RAW	EPA 8021	
methyl-t-butyl e	ther (MTBE)	ND	µg/Kg	25	5/10/2016 3	:27:00 PN	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/10/2016 3	:27:00 PN	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/10/2016 3	:27:00 PN	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 4	:33:00 PN	APM 1	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 4	:33:00 PN	APM 1	NWTPHDX	
%moisture		12.6	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
ample Number	160506006-015								
Surrogate St	andard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	obenzene		EPA 802	21		10	12.0	70-1	30
hexacosane			NWTPH	DX		8	0.2	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-016 QCO-TP-10S Soil		Sampling Da Sampling Ti Sample Loca	ate me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 4:	05:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 4:	05:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 4:	05:00 PN	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/10/2016 4:	05:00 PN	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/10/2016 4:	05:00 PN	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 5:	29:00 PN	APM 1	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 5:	29:00 PN	APM 1	NWTPHDX	
%moisture		15.2	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surrog	ate Da	ta				
Sample Number	160506006-016								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		9	6.4	70-1	30
hexacosane			NWTPH	DX		7	6.0	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS85; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-017 QCO-TP-11S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	5 Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 5	:58:00 PN	RAW	EPA 8021	
Ethylbenzene		64.2	µg/Kg	25	5/10/2016 5	:58:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 5	:58:00 PN	RAW	EPA 8021	
Toluene		26.0	µg/Kg	25	5/10/2016 5	:58:00 PN	RAW	EPA 8021	
Total Xylene		1540	µg/Kg	25	5/10/2016 5	:58:00 PN	RAW	EPA 8021	
Diesel		5440	mg/kg	25	5/16/2016 11	:41:00 PM	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/16/2016 11	:41:00 PM	APM	NWTPHDX	
%moisture		9.4	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-017								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 802	21		11	2.0	70-1	30
hexacosane			NWTPH	DX		9	7.2	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-018 QCO-TP-11D Soil		Sampling Da Sampling Ti Sample Loca	ite me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv	ved 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	5 Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 6	:36:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 6	:36:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	41.9	µg/Kg	25	5/10/2016 6	:36:00 PN	RAW	EPA 8021	
Toluene		35.5	µg/Kg	25	5/10/2016 6	:36:00 PN	RAW	EPA 8021	
Total Xylene		44.4	µg/Kg	25	5/10/2016 6	:36:00 PN	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 7	:21:00 PN	APM .	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 7	:21:00 PN	APM 1	NWTPHDX	
%moisture		20.4	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-018								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 80	21		9	3.5	70-1	30
hexacosane			NWTPH	DX		8	7.6	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL[NELAP]:E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL[NELAP]: E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-019 QCO-TP-12S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/8/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 7	:14:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 7	:14:00 PN	RAW	EPA 8021	
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	25	5/10/2016 7	:14:00 PN	RAW	EPA 8021	
Toluene		28.6	µg/Kg	25	5/10/2016 7	:14:00 PN	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/10/2016 7	:14:00 PN	RAW	EPA 8021	
Diesel		35.5	mg/kg	25	5/14/2016 8	17:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 8	17:00 PN	APM	NWTPHDX	
%moisture		15	Percent		5/6/2016 1:	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-019								
Surrogate S	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	robenzene		EPA 803	21		9	2.5	70-1	30
hexacosane			NWTPH	DX		8	5.2	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:CS95 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:CS95; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-020 QCO-TP-13S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 7:	52:00 PN	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 7:	52:00 PN	RAW	EPA 8021	
methyl-t-butyl e	ther (MTBE)	ND	µg/Kg	25	5/10/2016 7:	52:00 PN	RAW	EPA 8021	
Toluene		28.7	µg/Kg	25	5/10/2016 7:	52:00 PN	RAW	EPA 8021	
Total Xylene		ND	µg/Kg	25	5/10/2016 7:	52:00 PN	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/14/2016 9:	13:00 PN	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/14/2016 9:	13:00 PN	APM	NWTPHDX	
%moisture		16.4	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-020								
Surrogate St	tandard		Method			Percent	Recovery	Control	Limits
4-Bromofluor	obenzene		EPA 802	21		9	5.9	70-1	30
hexacosane			NWTPH	DX		9	3.4	50-1	50

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	160506006
Address:	4117 E. NEBRASKA AVE	Project Name:	QUINCY COLEMAN OIL
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	160506006-021 QCO-TP-14S Soil		Sampling Da Sampling Tir Sample Loca	ite me ation	5/6/2016 4:00 PM	Date/T Extrac	ime Receiv tion Date	red 5/6/2016	10:20 AM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/10/2016 8:	30:00 PM	RAW	EPA 8021	
Ethylbenzene		ND	µg/Kg	25	5/10/2016 8:	30:00 PM	RAW	EPA 8021	
methyl-t-butyl et	ther (MTBE)	ND	µg/Kg	25	5/10/2016 8:	30:00 PM	RAW	EPA 8021	
Toluene		ND	µg/Kg	25	5/10/2016 8:	30:00 PM	RAW	EPA 8021	
Total Xylene		66.3	µg/Kg	25	5/10/2016 8:	30:00 PM	RAW	EPA 8021	
Diesel		ND	mg/kg	25	5/13/2016 8:	06:00 AM	APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/13/2016 8:	06:00 AM	APM	NWTPHDX	
%moisture		13.7	Percent		5/6/2016 1:3	30:00 PM	JAO	%moisture	
			Surroga	ate Da	ta				
Sample Number	160506006-021								
Surrogate Sta	andard		Method			Percent	Recovery	Control	Limits
4-Bromofluoro	benzene		EPA 802	21		9	4.2	70-1	30
hexacosane			NWTPH	DX		8	8.8	50-1	50

Authorized Signature

Kathleen a. Sattles

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory. The results reported relate only to the samples indicated. Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Thursday, May 19, 2016

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	Login Report	
Customer Name: ABLE CLEAN-I 4117 E. NEBRA SPOKANE	Order ID: 160506006 Order Date: 5/6/2016 7	
Contact Name: FLAVIO ISHIHU	Project Name: QUINCY COLEMAN OIL	
Comment:		
Sample #: 160506008-001 Custome	r Sample # OCO-TP-1S	
Recv'd: V Matrix: Soil Quantity: 1 Date Received: Comment:	Collector: FLAVIO 5/6/2016 10:20:00 AM	Date Collected: 5/5/2016 Time Collected: 1:00 PM
Test	Lab Method	Due Date Priority
%Moisture	S %moisture	5/18/2016 Normal (~10 Days)
BTEX 8021	S EPA 8021	5/18/2016 Normal (~10 Days)
TPHDX-NW	S NWTPHDX	5/18/2016 Normal (~10 Days)
Sample #: 160506008-002 Custome	r Sample #: QCO-TP-1D	
Recvid: V Matrix: Soll	Collector: FLAVIO	Date Collected: 5/5/2016
Recvid: 🔽 Matrix: Soll Quantity: 1 Date Received:	Collector: FLAVIO 5/6/2016 10:20:00 AM	Date Collected: 5/5/2016 Time Collected: 1:00 PM
Quantity: 1 Date Received: Comment:	Collector: FLAVIO 5/6/2016 10:20:00 AM	Date Collected: 5/5/2016 Time Collected: 1:00 PM
Recvid: 🔽 Matrix: Soil Quantity: 1 Date Received: Comment: Test	Collector: FLAVIO 5/6/2016 10:20:00 AM Lab Method	Date Collected: 5/5/2016 Time Collected: 1:00 PM Due Date Priority
Recvid: v Matrix: Soll Quantity: 1 Date Received: Comment: Test %Moisture	Collector: FLAVIO 5/6/2016 10:20:00 AM Lab Method S %moisture	Date Collected: 5/5/2016 Time Collected: 1:00 PM <u>Due Date</u> Priority 5/18/2016 <u>Normal (~10 Days)</u>
Recvid: view matrix: Soil Quantity: 1 Date Received: Comment: <u>Test</u> %Moisture BTEX 8021	Collector: FLAVIO 5/8/2018 10:20:00 AM Lab Method S %moisture S EPA 8021	Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)
Recvid:     Matrix:     Soil       Quantity:     1     Date Received:       Comment:	Collector: FLAVIO 5/6/2016 10:20:00 AM Lab Method S %moisture S EPA 8021 S NWTPHDX	Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)
Recvid: <u>v</u> Matrix: Soil          Quantity:       1       Date Received:         Comment: <u>Test</u> <u>%Moisture</u> BTEX 8021 TPHDX-NW          Sample #:       160506008-003       Custome	Collector: FLAVIO 5/8/2016 10:20:00 AM <u>Lab Method</u> S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S	Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)
Recvid: <ul> <li>Matrix: Soil</li> <li>Quantity:</li> <li>Date Received:</li> <li>Comment:</li> </ul> Test <ul> <li>%Moisture</li> <li>BTEX 8021</li> <li>TPHDX-NW</li> </ul> Sample #:       160506006-003       Custome         Recvid: <ul> <li>Matrix:</li> <li>Soil</li> </ul>	Collector: FLAVIO 5/8/2016 10:20:00 AM S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO	Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/2016         Normal (~10 Days)
Recvid:       Imatrix:       Soil         Quantity:       1       Date Received:         Comment:	Collector: FLAVIO 5/8/2016 10:20:00 AM S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO 5/8/2016 10:20:00 AM	Date Collected:       5/5/2016         Time Collected:       1:00 PM         Due Date       Priority         5/18/2016       Normal (~10 Days)         5/18/2016       Normal (~10 Days)         5/18/2016       Normal (~10 Days)         5/18/2016       Normal (~10 Days)         Date Collected:       5/5/2016         Time Collected:       1:00 PM
Recvid:       Imatrix: Soil         Quantity:       1       Date Received:         Comment:       Imatrix:       Soil         %Moisture       BTEX 8021       Imatrix:         TPHDX-NW       Sample #:       160506008-003       Custome         Recvid:       Imatrix:       Soil       Quantity:       1       Date Received:         Comment:       1       Date Received:       Comment:       1	Collector: FLAVIO 5/6/2016 10:20:00 AM Collector: S Wroisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO 5/6/2016 10:20:00 AM	Date Collected:       5/5/2016         Time Collected:       1:00 PM         Due Date       Priority         5/18/2016       Normal (~10 Days)         Date Collected:       5/5/2016         Time Collected:       1:00 PM
Recvid:       Imatrix: Soil         Quantity:       1       Date Received:         Comment:       Imatrix:       Soil         %Moisture       BTEX 8021       Imatrix:         TPHDX-NW       Sample #:       160506006-003       Custome         Recvid:       Imatrix:       Soil       Quantity:       1       Date Received:         Comment:       Test       Test       Imatrix       Soil	Collector: FLAVIO 5/6/2016 10:20:00 AM S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO 5/6/2016 10:20:00 AM	Date Collected:     5/5/2016       Time Collected:     1:00 PM       Due Date     Priority       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       Date Collected:     5/5/2016       Time Collected:     1:00 PM
Recvid:       Imatrix: Soil         Quantity:       1       Date Received:         Comment:       Imatrix:       Soil         Whoisture       BTEX 8021       Imatrix:         TPHDX-NW       Sample #:       160506008-003       Custome         Recvid:       Imatrix:       Soil       Quantity:       1       Date Received:         Comment:       Imatrix:       Soil       Imatrix:       Soil         Yest       Moisture       Imatrix:       Soil	Collector: FLAVIO 5/6/2016 10:20:00 AM S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO 5/6/2016 10:20:00 AM Lab Method S %moisture	Date Collected:     5/5/2016       Time Collected:     1:00 PM       Due Date     Priority       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       5/18/2016     Normal (~10 Days)       Date Collected:     5/5/2016       Time Collected:     1:00 PM       Due Date     Priority       5/18/2016     Normal (~10 Days)
Recvid:       Imatrix: Soil         Quantity:       1       Date Received:         Comment:       Imatrix:       Soil         Moisture       BTEX 8021       Imatrix:         TPHDX-NW       Sample #:       160506008-003       Custome         Recvid:       Imatrix:       Soil       Quantity:       1       Date Received:         Comment:       Imatrix:       Soil       Imatrix:       Soil         Moisture       BTEX       BTEX 8021       Imatrix:       Soil	Collector: FLAVIO 5/6/2016 10:20:00 AM S %moisture S EPA 8021 S NWTPHDX er Sample #: QCO-TP-2S Collector: FLAVIO 5/6/2016 10:20:00 AM Lab Method S %moisture S EPA 8021	Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           Date Collected:         5/5/2016           Time Collected:         1:00 PM           Due Date         Priority           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)           5/18/2016         Normal (~10 Days)

### Coleman Oil, Quincy WA

Customer Name	ABLE CLEAN-U	P TECHNOLOG	SIES, INC.	Orde	er ID: 160506006
	4117 E. NEBRAS	SKA AVE		Order	Date: 5/6/2016
	SPOKANE	W	A 99217		
Contact Name		RA		Project Name: O	UINCY COLEMAN OIL
Contact Name	. TEAVIO ISHINOI			Project Name, G	ONTO T COLEMAN OIL
Comment	:				
Sample #: 160506	006-004 Customer	Sample #: QCC	D-TP-2D		
Recv'd: 🔽 M	atrix: Soil	Collector: FLA	VIO	Date Collected:	5/5/2016
Quantity: 1	Date Received:	5/6/2016 10:20:00	AM	Time Collected:	1:00 PM
Comment:					
Test		Lab	Method	Due Date	Priority
%Moisture		S	%moisture	5/18/2016	<u>Normal (~10 Days)</u>
BTEX 8021		S	EPA 8021	5/18/2016	<u>Normal (~10 Days)</u>
TPHDX-NW		S	NWTPHDX	5/18/2016	<u>Normal (~10 Days)</u>
Sample #: 160506	008-005 Customer	Sample #: QCC	D-TP-3S		
Recy/d: [7] M	atrix: Soil	Collector: ELA	VIO	Data Collected:	5/5/2018
Quantity: 1	Date Received:	5/8/2018 10:20:00	AM	Time Collected:	1-00 PM
Comment:	Date Neverreu.	0/0/2010 10:20:00	<u>,                                    </u>	This concored.	
comment.					
Test		Lab	Method	Due Date	Priority
Test %Moisture		Lab S	Method %moisture	Due Date 5/18/2016	Priority <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021		Lab S S	Method %moisture EPA 8021	Due Date 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW		Lab S S S	Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506	006-006 Customer	Lab S S Sample #: QCC	Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506	006-006 Customer	Lab S S Sample #: QCC	Method %moisture EPA 8021 NWTPHDX 0-TP-3D	Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: V M	006-006 Customer atrix: Soil	Lab S S Sample #: QCC Collector: FLA	Method %moisture EPA 8021 NWTPHDX O-TP-3D VIO	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected:	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: V M. Quantity: 1	006-006 Customer atrix: Soil Date Received:	Lab S S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX D-TP-3D VIO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: V M. Quantity: 1 Comment:	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX D-TP-3D VIO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd:  M. Quantity: 1 Comment: Test	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX O-TP-3D VIO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd:  M. Quantity: 1 Comment: Test %Moisture	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM Priority Normal (~10 Days)
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160508 Recv'd:  M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S	Method %moisture EPA 8021 NWTPHDX D-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506	006-006 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S Sample #: QCC	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX 0-TP-4S	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	Priority Normal (~10 Days) Normal (~10 Days) Normal (~10 Days) 5/5/2016 1:00 PM Priority Normal (~10 Days) Normal (~10 Days) Normal (~10 Days) Normal (~10 Days)
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M.	006-006 Customer atrix: Soil Date Received: 006-007 Customer atrix: Soil	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S Sample #: QCC Collector: FLA	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX 0-TP-4S VIO	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Date Collected:	Priority         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         5/5/2016         1:00 PM         Priority         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         5/5/2016
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160508 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160508 Recv'd: ☑ M. Quantity: 1	008-008 Customer atrix: Soil Date Received: 008-007 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX 0-TP-4S VIO AM	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Time Collected:           Time Collected:	Priority         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         5/5/2016         1:00 PM         Priority         Normal (~10 Days)         1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment:	008-006 Customer atrix: Soil Date Received: 008-007 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX 0-TP-4S VIO AM	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Time Collected:           Time Collected:	Priority         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         5/5/2016         1:00 PM         Priority         Normal (~10 Days)         5/5/2016         1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: TEST %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment:	006-006 Customer atrix: Soil Date Received: 006-007 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM %moisture EPA 8021 NWTPHDX 0-TP-4S VIO AM	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Time Collected:           Time Collected:	Priority         Normal (~10 Days)         Normal (~10 Days)         Normal (~10 Days)         5/5/2016         1:00 PM         Priority         Normal (~10 Days)         5/5/2016         1:00 PM
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506 Recv'd: ☑ M. Quantity: 1 Comment: Test	006-006 Customer atrix: Soil Date Received: 006-007 Customer atrix: Soil Date Received:	Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	Method %moisture EPA 8021 NWTPHDX 0-TP-3D VIO AM Method %moisture EPA 8021 NWTPHDX 0-TP-4S VIO AM	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Time Collected:           Date Collected:	Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/5/2016 1:00 PM 5/5/2016

Customer Name: ABLE CLE	AN-UP TECHNOLO	GIES, INC.	Order I	D: 160506006
4117 E. NE SPOKANE	EBRASKA AVE	A 99217	Order Dat	te: 5/6/2016
Contact Name: FLAVIO IS	HIHURA		Project Name: QUIN	NCY COLEMAN OIL
Comment:				
BTEX 8021	S	EPA 8021	5/18/2016	Normal (~10 Days)
TPHDX-NW	S	NWTPHDX	5/18/2016	Normal (~10 Days)
Sample #: 160506006-008 Cu	stomer Sample #: QC	0-TP-4D		
Recv'd: 🔽 Matrix: Soil	Collector: FL/	AVIO	Date Collected: 5/5/	2016
Quantity: 1 Date Receiv	ved: 5/6/2016 10:20:00	AM .	Time Collected: 1:00	) PM
Comment:				
Test	Lab	Method	Due Date	Priority
%Moisture	S	%moisture	5/18/2016	Normal (~10 Days)
BTEX 8021	S	EPA 8021	5/18/2016	Normal (~10 Days)
TPHDX-NW	S	NWTPHDX	5/18/2016	<u>Normal (~10 Days)</u>
Sample #: 160506006-009 Cu	stomer Sample #: QC	O-TP-5S		
Sample #: 160506006-009 Cu Recv'd: ☑ Matrix: Soil	stomer Sample #: QC Collector: FL/	0-TP-5S AVIO	Date Collected: 5/5/	2016
Sample #: 160506008-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00	O-TP-5S AVIO ) AM	Date Collected: 5/5/ Time Collected: 1:00	2016 D PM
Sample #: 160506006-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv Comment:	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00	O-TP-5S AVIO J AM	Date Collected: 5/5/ Time Collected: 1:00	2016 D PM
Sample #: 160506006-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv Comment:	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00	0-TP-5S AVIO ) AM	Date Collected: 5/5/ Time Collected: 1:00	2016 D PM
Sample #: 160506008-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv Comment: Test	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab	O-TP-5S AVIO ) AM Method	Date Collected: 5/5/ Time Collected: 1:00 Due Date	2016 D PM Priority
Sample #: 160506006-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv Comment: Test %Moisture	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S	O-TP-5S AVIO ) AM <u>Method</u> %moisture	Date Collected: 5/5/ Time Collected: 1:00 Due Date 5/18/2016	2016 ) PM Priority <u>Normal (~10 Days)</u>
Sample #: 160506006-009 Cu Recv'd: V Matrix: Soil Quantity: 1 Date Receiv Comment: Test %Moisture BTEX 8021	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 <u>Lab</u> S S	O-TP-5S AVIO ) AM <u>Method</u> %moisture EPA 8021	Date Collected: 5/5/ Time Collected: 1:00 Due Date 5/18/2016 5/18/2016	2016 DPM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Sample #: 160506006-009 Cu Recv'd:  Matrix: Soil Quantity: 1 Date Receiv Comment: Test %Moisture BTEX 8021 TPHDX-NW	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 <u>Lab</u> S S S	O-TP-5S AVIO D AM Method %moisture EPA 8021 NWTPHDX	Date Collected: 5/5/ Time Collected: 1:00 Due Date 5/18/2016 5/18/2016 5/18/2016	2016 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Sample #:       160506006-009       Cu         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Comment:         Test           %Moisture           BTEX 8021           TPHDX-NW           Sample #:       160506008-010       Cu	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S S S stomer Sample #: QC	O-TP-5S AVIO ) AM Method %moisture EPA 8021 NWTPHDX O-TP-5D	Date Collected: 5/5/ Time Collected: 1:00 Due Date 5/18/2016 5/18/2016 5/18/2016	2016 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>
Sample #:       160506006-009       Cut         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Comment: <u>Test</u> %         %Moisture        BTEX 8021         TPHDX-NW        Sample #:       160506006-010       Cut         Recv'd:       ✓       Matrix:       Soil	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S S S stomer Sample #: QC Collector: FL/	O-TP-5S AVIO D AM Method %moisture EPA 8021 NWTPHDX O-TP-5D AVIO	Date Collected: 5/5/ Time Collected: 1:00 Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: 5/5/	2016 D PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 2016
Sample #:       160506006-009       Cu         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Comment:         Test           %Moisture        BTEX 8021         TPHDX-NW        Sample #:       160506008-010       Cu         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S S stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00	O-TP-5S AVIO ) AM <u>Method</u> %moisture EPA 8021 NWTPHDX O-TP-5D AVIO ) AM	Date Collected:         5/5/           Time Collected:         1:00           Due Date         5/18/2016           5/18/2016         5/18/2016           5/18/2016         5/18/2016           Date Collected:         5/5/           Time Collected:         5/5/	2016 DPM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> Normal (~10 Days) 2016 DPM
Sample #:       160506006-009       Current:         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:       ✓       Øutrix:       Soil         %Moisture       BTEX 8021       TPHDX-NW         Sample #:       160506008-010       Current:         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:       ✓       Matrix:       Soil	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 <u>Lab</u> S S S stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00	O-TP-5S AVIO ) AM <u>Method</u> %moisture EPA 8021 NWTPHDX O-TP-5D AVIO ) AM	Date Collected:         5/5//           Time Collected:         1:00           Due Date         5/18/2016           5/18/2016         5/18/2016           Date Collected:         5/5//           Date Collected:         5/5//           Time Collected:         1:00	2016 D PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 2016 D PM
Sample #:       160506006-009       Cut         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Date Receive         Test           %Moisture        BTEX 8021         TPHDX-NW        Sample #:       160506006-010       Cut         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Test	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S S stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab	O-TP-5S AVIO D AM Method %moisture EPA 8021 NWTPHDX O-TP-5D AVIO D AM Method	Date Collected:         5/5/           Time Collected:         1:00           Due Date         5/18/2016           5/18/2016         5/18/2016           5/18/2016         5/18/2016           Date Collected:         5/5/           Time Collected:         5/5/           Date Collected:         1:00           Due Date         5/5/	2016 D PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 2016 D PM
Sample #:       160506006-009       Current:         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Date Receive         *       *       Moisture         BTEX 8021        TPHDX-NW         Sample #:       160506008-010       Curre         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Test         *Moisture	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S S stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 Lab S	O-TP-5S AVIO D AM Method %moisture EPA 8021 NWTPHDX O-TP-5D AVIO D AM Method %moisture	Date Collected:         5/5//           Time Collected:         1:00           Due Date         5/18/2016           5/18/2016         5/18/2016           Date Collected:         5/5//           Date Collected:         5/5//           Date Collected:         1:00           Date Collected:         5/5//           Date Collected:         5/5//           Date Collected:         5/5//           Date Collected:         5/5//           Due Date         5/18/2016	2016 D PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 2016 D PM Priority <u>Normal (~10 Days)</u>
Sample #:       160506006-009       Cu         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:        Comment:         Test           %Moisture        BTEX 8021         TPHDX-NW        Sample #:       160506008-010       Cu         Recv'd:       ✓       Matrix:       Soil         Quantity:       1       Date Receive         Comment:            Test            %Moisture             Test             %Moisture             BTEX 8021	stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 <u>Lab</u> S S stomer Sample #: QC Collector: FL/ ved: 5/6/2016 10:20:00 <u>Lab</u> S S	O-TP-5S AVIO D AM Method %moisture EPA 8021 NWTPHDX O-TP-5D AVIO D AM Method %moisture EPA 8021	Date Collected:         5/5/           Time Collected:         1:00           Due Date         5/18/2016           5/18/2016         5/18/2016           Date Collected:         5/5/           Time Collected:         5/5/           Date Collected:         1:00           Date Collected:         5/5/           Date Collected:         5/5/           Due Date         5/18/2016           Due Date         5/18/2016           5/18/2016         5/18/2016	2018 D PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 2018 D PM Priority <u>Normal (~10 Days)</u>

Customer Name: ABLE	E CLEAN-UP TECHN	Ord	er ID:	160506006		
4117	E. NEBRASKA AVE			Order	Date:	5/6/2016
SPO	KANE	WA	99217			
Contact Name: ELAV				Project Name: (		EMAN OIL
Commont				i roject Humer (		
comment:						
Samuela # 100500000 011	Customer Completty	000	TD ac			
sample #. 10050000-011	Customer sample #.	900	-11-03			
Recv'd: 🔽 Matrix: S	Soil Collector:	FLA\	/10	Date Collected:	5/5/2016	
Quantity: 1 Date	Received: 5/6/2016 10	:20:00 /	AM	Time Collected:	1:00 PM	
Comment:						
Test		-	Mathed	Due Date	Priority	
% Moichiro		e e	%moisture	5/19/2018	Priority	(
BTEX 8021		s	EPA 8021	5/18/2016	Normal	(~10 Days)
TPHDX-NW		s	NWTPHDX	5/18/2016	Normal	(~10 Days)
		-		6.16.2010	Normai	("TO Days)
Sample #: 160506008-012	2 Customer Sample #:	QCO	-TP-6D			
Recv'd: 🔽 Matrix: S	oil Collector:	FLA\	/10	Date Collected:	5/5/2016	
Quantity: 1 Date	Received: 5/6/2016 10	:20:00 /	AM	Time Collected:	1:00 PM	
Comment:						
Test	I	Lab	Method	Due Date	Priority	
Test %Moisture	 	Lab S	Method %moisture	Due Date 5/18/2016	Priority <u>Normal</u>	(~10 Days)
Test %Moisture BTEX 8021	 	Lab S S	Method %moisture EPA 8021	Due Date 5/18/2016 5/18/2016	Priority <u>Normal</u> Normal	(~10 Days) (~10 Days)
Test %Moisture BTEX 8021 TPHDX-NW	     	Lab S S S	Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal</u> <u>Normal</u> <u>Normal</u>	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days)
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506008-013	Customer Sample #:	Lab S S S QCO	Method %moisture EPA 8021 NWTPHDX -TP-7S	Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal</u> <u>Normal</u> <u>Normal</u>	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days <u>)</u>
Test           %Moisture           BTEX 8021           TPHDX-NW           Sample #:         160506008-013           Recv/d:         52           Matrix:         9	Goil Collector:	Lab S S QCO FLAV	Method %moisture EPA 8021 NWTPHDX -TP-7S //O	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days <u>)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160508008-013 Recv'd: ☑ Matrix: S Quantity: 1 Date	Customer Sample #:	Lab S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days <u>)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506006-013 Recv'd: V Matrix: S Quantity: 1 Date Comment:	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days <u>)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160506008-013 Recv'd: V Matrix: S Quantity: 1 Date Comment:	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM	<u>(~10 Days)</u> ( <u>~10 Days)</u> (~10 Days <u>)</u>
Test %Moisture BTEX 8021 TPHDX-NW Sample #: 160508006-013 Recv'd: ☑ Matrix: S Quantity: 1 Date Comment: Test	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM Priority	<u>(~10 Days)</u> (~10 Days <u>)</u> (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506006-013         Recv'd:       ✓         Quantity:       1         Date         Comment:         *Moisture	Customer Sample #: foil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 / Lab	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM Method %moisture	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM Priority <u>Normal</u>	<u>(~10 Days)</u> (~10 Days) (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506006-013         Recv'd:       ✓         Quantity:       1       Date         Comment:	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLA\ :20:00 / Lab S S	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM Method %moisture EPA 8021	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM Priority <u>Normal</u> <u>Normal</u>	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506008-013         Recv'd:       ✓         Matrix:       S         Quantity:       1         Date       Comment:         Test       %Moisture         BTEX 8021       TPHDX-NW	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV 2:20:00 / Lab S S S	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM Method %moisture EPA 8021 NWTPHDX	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM Priority <u>Normal</u> <u>Normal</u>	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506008-013         Recv'd:       ✓         Matrix:       S         Quantity:       1       Date         Comment:          *Moisture       BTEX 8021         TPHDX-NW          Sample #:       160506008-014	Customer Sample #: Collector: Received: 5/6/2016 10	Lab S S QCO FLAV (:20:00 / C Lab S S S S QCO	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM Method %moisture EPA 8021 NWTPHDX -TP-8S	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM Priority <u>Normal</u> <u>Normal</u>	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test           %Moisture           BTEX 8021           TPHDX-NW           Sample #:         160506006-013           Recv'd:         ✓           Quantity:         1           Date         Comment:           *Moisture         *           BTEX 8021         TPHDX-NW           Sample #:         160506006-014           %Moisture         *           BTEX 8021         TPHDX-NW           Sample #:         160506006-014           Recv'd:         ✓         Matrix: S	Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 / S S S S S S S S S	Method %moisture EPA 8021 NWTPHDX -TP-7S /IO AM Method %moisture EPA 8021 NWTPHDX -TP-8S	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 5/18/2016	Priority Normal Normal 5/5/2016 1:00 PM Priority Normal Normal 5/5/2016	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506006-013         Recv'd:       ✓       Matrix:       S         Quantity:       1       Date         Comment:           *Moisture       BTEX 8021           TPHDX-NW        Sample #:       160506008-014         Recv'd:       ✓       Matrix:       S         Quantity:       1       Date	Customer Sample #: Soil Collector: Received: 5/6/2016 10 Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 / Lab S S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM %moisture EPA 8021 NWTPHDX -TP-8S //O AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: 5/18/2016 5/18/2016 5/18/2016 5/18/2016	Priority Normal Normal 5/5/2016 1:00 PM Priority Normal Normal Normal 5/5/2016 1:00 PM	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test           %Moisture           BTEX 8021           TPHDX-NW           Sample #:         160506006-013           Recv'd:         ✓           Quantity:         1           Date         Comment:           *Moisture         BTEX 8021           TPHDX-NW         Sample #:           Sample #:         160506006-014           Recv'd:         ✓           Matrix:         S           Quantity:         1           Date         Comment:	Customer Sample #: Soil Collector: Received: 5/6/2016 10 Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 / Lab S S S QCO FLAV :20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM Method %moisture EPA 8021 NWTPHDX -TP-8S //O AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: 5/18/2016 5/18/2016 5/18/2016 5/18/2016 5/18/2016	Priority Normal Normal 5/5/2016 1:00 PM Priority Normal Normal Normal 5/5/2016 1:00 PM	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test         %Moisture         BTEX 8021         TPHDX-NW         Sample #:       160506008-013         Recv'd:       ✓       Matrix:       S         Quantity:       1       Date         Comment:            YMoisture       BTEX 8021           BTEX 8021       TPHDX-NW           Sample #:       160506008-014           Recv'd:       ✓       Matrix:       S         Quantity:       1       Date          Comment:       ✓       Matrix:       S	Customer Sample #: Soil Collector: Received: 5/6/2016 10 Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV (:20:00 / C Lab S S QCO FLAV (:20:00 /	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM %moisture EPA 8021 NWTPHDX -TP-8S //O AM	Due Date           5/18/2016           5/18/2016           5/18/2016           Date Collected:           Time Collected:           Due Date           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           5/18/2016           Time Collected:           Time Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)
Test           %Moisture           BTEX 8021           TPHDX-NW           Sample #:         160506006-013           Recv'd:         ✓           Quantity:         1           Date         Comment:           *         *           %Moisture         BTEX 8021           TPHDX-NW         *           Sample #:         160506006-014           Recv'd:         ✓           Matrix:         S           Quantity:         1           Date         Comment:	Customer Sample #: Soil Collector: Received: 5/6/2016 10 Customer Sample #: Soil Collector: Received: 5/6/2016 10	Lab S S QCO FLAV :20:00 / Lab S S S QCO FLAV :20:00 / Lab	Method %moisture EPA 8021 NWTPHDX -TP-7S //O AM Method %moisture EPA 8021 NWTPHDX -TP-8S //O AM	Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: 5/18/2016 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Time Collected:	Priority <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM <u>Priority</u> <u>Normal</u> <u>Normal</u> 5/5/2016 1:00 PM	(~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days) (~10 Days)

Customer Name:	ABLE CLEAN-U	P TECHNOLOG	GIES, INC.	Order ID: 16050600		
	4117 E. NEBRASKA AVE			Order	Date: 5/6/2016	
	SPOKANE	W	A 99217			
Contact Name:	FLAVIO ISHIHU	RA		Project Name: Q	UINCY COLEMAN OIL	
Comment:						
BTEX 8021		S	EPA 8021	5/18/2016	Normal (~10 Days)	
TPHDX-NW		S	NWTPHDX	5/18/2016	<u>Normal (~10 Days)</u>	
Sample #: 1605060	006-015 Customer	Sample #: QCC	D-TP-9S			
Recv'd: 🔽 Ma	trix: Soil	Collector: FLA	VIO	Date Collected:	5/6/2016	
Quantity: 1	Date Received:	5/6/2016 10:20:00	AM	Time Collected:	4:00 PM	
Comment:						
Test		Lah	Method	Due Date	Priority	
%Moisture		S	%moisture	5/18/2016	Normal (~10 Days)	
BTEX 8021		s	EPA 8021	5/18/2016	Normal (~10 Days)	
TPHDX-NW		s	NWTPHDX	5/18/2016	Normal (~10 Days)	
Sample #: 1605060	006-016 Customer	Sample #: QCC	D-TP-10S			
Sample #: 1605060	006-016 Customer	Sample #: QCC	D-TP-10S	Dete Collected	510 0040	
Sample #: 1605060 Recv'd:  Ma	006-016 Customer atrix: Soil	Sample #: QCC Collector: FLA	D-TP-10S VIO	Date Collected:	5/6/2016	
Sample #: 1605060 Recv'd:  Ma Quantity: 1	006-016 Customer ntrix: Soil Date Received:	Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM	Date Collected:	5/6/2016 4:00 PM	
Sample #: 1805080 Recv'd:	006-016 Customer ntrix: Soil Date Received:	Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM	Date Collected:	5/6/2016 4:00 PM	
Sample #: 1605060 Recv'd:  V Ma Quantity: 1 Comment: Test	006-016 Customer ntrix: Soil Date Received:	Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab	D-TP-10S VIO AM Method	Date Collected: Time Collected:	5/6/2016 4:00 PM Priority	
Sample #: 1605060 Recv'd:  V Ma Quantity: 1 Comment: <u>Test</u> %Moisture	006-016 Customer ntrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S	D-TP-10S VIO AM <u>Method</u> %moisture	Date Collected:	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u>	
Sample #: 1805080 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021	006-016 Customer ntrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S	D-TP-10S AM Method %moisture EPA 8021	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW	006-016 Customer ıtrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX	Date Collected: 5/18/2016 5/18/2016 5/18/2016	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060	006-016 Customer ntrix: Soil Date Received: 006-017 Customer	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S Sample #: QCC	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S	Date Collected:	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: V Ma	006-016 Customer ntrix: Soil Date Received: 006-017 Customer ntrix: Soil	Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S S Sample #: QCC Collector: FLA	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S VIO	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected:	5/6/2016 4:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016	
Sample #: 1605060 Recv'd: ✓ Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: ✓ Ma Quantity: 1	006-016 Customer htrix: Soil Date Received: 006-017 Customer htrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S S • Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S VIO AM	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	5/6/2016 4:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment:	006-016 Customer htrix: Soil Date Received: 006-017 Customer htrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S • Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S VIO AM	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment:	006-016 Customer ntrix: Soil Date Received: 006-017 Customer ntrix: Soil Date Received:	Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S VIO AM	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected:	5/6/2016 4:00 PM <u>Priority</u> <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test 2000 000	006-016 Customer ntrix: Soil Date Received: 006-017 Customer ntrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S • Sample #: QCC Collector: FLA 5/6/2016 10:20:00	D-TP-10S VIO AM Method %moisture EPA 8021 NWTPHDX D-TP-11S VIO AM	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM Priority	
Sample #: 1605060 Recv'd: ☑ Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: ☑ Ma Quantity: 1 Comment: Test %Moisture DTEX 0000	006-016 Customer htrix: Soil Date Received: 006-017 Customer htrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S	D-TP-10S VIO AM Method EPA 8021 NWTPHDX D-TP-11S VIO AM Method %moisture EDA 60001	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM <u>Priority</u> <u>Normal (~10 Days)</u>	
Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TPHDX-NW Sample #: 1605060 Recv'd: V Ma Quantity: 1 Comment: Test %Moisture BTEX 8021 TEX 8021 TEX 8021 TEX 8021	006-016 Customer htrix: Soil Date Received: 006-017 Customer htrix: Soil Date Received:	• Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S S • Sample #: QCC Collector: FLA 5/6/2016 10:20:00 Lab S S	D-TP-10S VIO AM Method EPA 8021 NWTPHDX D-TP-11S VIO AM Method %moisture EPA 8021	Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016 Date Collected: Time Collected: Due Date 5/18/2016 5/18/2016 5/18/2016	5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u> 5/6/2016 4:00 PM Priority <u>Normal (~10 Days)</u> <u>Normal (~10 Days)</u>	

Customer Name: ABLE CLEAN	-UP TECHNOLOGI	ES, INC.	Order ID:	160506006
4117 E. NEBR SPOKANE	RASKA AVE WA	99217	Order Date:	5/6/2016
Contact Name: FLAVIO ISHIH	IURA		Project Name: QUINCY	COLEMAN OIL
Comment:			,.	
comment.				
Sample #: 160506006-018 Custon	ner Sample #: QCO-	TP-11D		
Recv'd: 🔽 Matrix: Soil	Collector: FLAV	0	Date Collected: 5/6/2016	3
Quantity: 1 Date Received:	5/6/2016 10:20:00 A	м	Time Collected: 4:00 PM	
Comment:				
Test	Lab	Method	Due Date Prie	ority
%Moisture	S	%moisture	5/18/2016 <u>No</u>	rmal (~10 Days)
BTEX 8021	S	EPA 8021	5/18/2016 <u>No</u>	rmal (~10 Days)
TPHDX-NW	S	NWTPHDX	5/18/2016 <u>No</u>	rmal (~10 Days)
Sample #: 160506008-019 Custon	ner Sample #: QCO-	TP-12S		
Recv'd: 🔽 Matrix: Soil	Collector: FLAV	0	Date Collected: 5/6/2016	3
Quantity: 1 Date Received:	5/6/2016 10:20:00 A	м	Time Collected: 4:00 PM	
Comment:				
Test	Lab	Method	Due Date Prie	ority
%Moisture	s	%moisture	5/18/2016 <u>No</u>	rmal (~10 Days)
BTEX 8021	s	EPA 8021	5/18/2016 <u>No</u>	rmal (~10 Days)
TPHDX-NW	S	NWTPHDX	5/18/2016 <u>No</u>	rmal (~10 Days)
Sample #: 160506008-020 Custom	ner Sample #: QCO-	TP-13S		
Recv'd: 🔽 Matrix: Soil	Collector: FLAV	0	Date Collected: 5/6/2016	3
Quantity: 1 Date Received:	5/6/2016 10:20:00 A	м	Time Collected: 4:00 PM	
Comment:				
Test	Lab	Method	Due Date Prie	ority
%Moisture	S	%moisture	5/18/2016 <u>No</u>	rmal (~10 Days)
BTEX 8021	S	EPA 8021	5/18/2016 <u>No</u>	rmal (~10 Days)
TPHDX-NW	S	NWTPHDX	5/18/2016 <u>No</u>	rmal (~10 Days)
Sample #: 160506008-021 Custom	ner Sample #: QCO-	TP-14S		
Recv'd: 🔽 Matrix: Soil	Collector: FLAV	0	Date Collected: 5/6/2016	)
Quantity: 1 Date Received:	5/6/2016 10:20:00 A	м	Time Collected: 4:00 PM	
Comment:				
Test	Lab	Method	Due Date Prie	ority
%Moisture	s	%moisture	5/18/2016 <u>No</u>	rmal (~10 Days)

CHNOLO	OGIES, INC.	Order	ID: 160506006
AVE		Order Da	ate: 5/6/2016
V	VA 99217		
		Project Name: QUI	INCY COLEMAN OIL
s	EPA 8021	5/18/2016	<u>Normal (~10 Days)</u>
S	NWTPHDX	5/18/2016	Normal (~10 Days)
	IDITION RECO	ORD	
		Yes	
		Yes	
? (°C)		7.2	
		Yes	
		Yes Yes	
?		Yes Yes Yes	
?		Yes Yes Yes N/A	
? amples?		Yes Yes N/A N/A	
	S S CHNOL( AVE S S S S S S S S S S S S S S S S S S S	CHNOLOGIES, INC. AVE WA 99217 S EPA 8021 S NWTPHDX LE CONDITION RECO	CHNOLOGIES, INC. Order AVE Order Da WA 99217 Project Name: QU S EPA 8021 5/18/2016 S NWTPHDX 5/18/2016 LE CONDITION RECORD Yes Yes ? (°C) 7.2

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Date & Terre 5-10-110 1020		Received by
		Relinquished by
Preservative	EA Merry 1/2 anotek Stotle 1020	Received by NEWAY ()=
Temperature (°C) 72 /K-1	a Marco Splaces ACT Ship 10:20	Relinquished by Chuck Chuku
Not I all	Signatury Company Date Tree	Printed Name
hkt		OCOTP-6D /
VOC Head Space?		OCO-TP-65
Containers Sealed? (X N	XX	OCOTP-50
Labels & Chains Agree? CX N		QCD-TP-55
Received Intact? Q N		DC0-TP -4P
Inspection Checklist		OCO-TP-45
	XX	DCO-TP-3D
		020-17-4
		0007P-3 5
	XX	OCONTP-20
		SCOTP-25
		SCO-TP-1D /
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Note Special Instructions/Comments	on List Analyses Requested	Provide Sample Description
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	1282 Akuras Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 S04 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433	Laos, Inc.
UINCY COLEMAN OIL	Chain of Custody Record	Anatek
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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	161109076
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OIL QUINCY
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	161109076-001 QCO-TP-6S Soil		Sampling Da Sampling Tir Sample Loca	ate me ation	11/7/2016 2:00 PM	Date/T Extrac	ime Receiv tion Date	red 11/9/2016	2:17 PM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	45.1	11/14/2016 7:	54:00 PN	ACS	EPA 8021	
Ethylbenzene		486	µg/Kg	45.1	11/14/2016 7:	54:00 PN	ACS	EPA 8021	J4
methyl-t-butyl e	ether (MTBE)	ND	µg/Kg	45.1	11/14/2016 7:	54:00 PN	ACS	EPA 8021	
Toluene		ND	µg/Kg	45.1	11/14/2016 7:	54:00 PN	ACS	EPA 8021	
Total Xylene		1000	µg/Kg	45.1	11/14/2016 7:	54:00 PN	ACS	EPA 8021	J4
Diesel		17100	mg/kg	500	11/21/2016 3:	35:00 PN	JDB	NWTPHDX	
Lube Oil		ND	mg/kg	2000	11/21/2016 3:	35:00 PN	JDB	NWTPHDX	
%moisture		20.1	Percent		11/10/2	016	ACS	%moisture	
			Surroga	ate Da	ta				
ample Number	161109076-001								
Surrogate St	tandard		Method			Percent	Recovery	Control I	imits
4-Bromofluor	obenzene		EPA 802	21		10	7.0	70-13	30
hexacosane			NWTPH	DX		7	1.2	50-18	50

Certifications held by Anatek Labs ID: EPAID00013; A2:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Wednesday, November 23, 2016

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	161109076
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OIL QUINCY
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	161109076-002 QCO-TP-6D Soil		Sampling Da Sampling Ti Sample Loca	ate me ation	11/7/2016 2:15 PM	Date/T Extrac	ime Receiv tion Date	ved 11/9/2016	2:17 PM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	41.7	11/14/2016 7:	:15:00 PN	ACS	EPA 8021	
Ethylbenzene		507	µg/Kg	41.7	11/14/2016 7:	:15:00 PN	ACS	EPA 8021	J4
methyl-t-butyl	ether (MTBE)	ND	µg/Kg	41.7	11/14/2016 7:	:15:00 PN	ACS	EPA 8021	
Toluene		ND	µg/Kg	41.7	11/14/2016 7:	:15:00 PN	ACS	EPA 8021	
Total Xylene		7860	µg/Kg	41.7	11/14/2016 7:	:15:00 PN	ACS	EPA 8021	J4
Diesel		18000	mg/kg	500	11/21/2016 4:	:30:00 PN	/ JDB	NWTPHDX	
Lube Oil		ND	mg/kg	2000	11/21/2016 4:	:30:00 PN	JDB	NWTPHDX	
%moisture		16.2	Percent		11/10/2	016	ACS	%moisture	
			Surrog	ate Da	ta				
Sample Number	161109076-002								
Surrogate S	tandard		Method	l i		Percent	Recovery	Control I	imits
4-Bromofluor	robenzene		EPA 80	21		11	3.0	70-13	30
hexacosane			NWTPH	IDX		73	3.6	50-18	50

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FLINELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C695 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FLINELAP): E871099

Wednesday, November 23, 2016

Page 2 of 3

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	161109076
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OIL QUINCY
	SPOKANE, WA 99217		
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	161109076-003 QCO-TP-11S Soil		Sampling Da Sampling Tir Sample Loca	te ne ition	11/7/2016 2:20 PM	Date/T Extrac	ime Receiv tion Date	ved 11/9/2016	2:17 PM
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	42.8	11/14/2016 6:	37:00 PN	ACS	EPA 8021	
Ethylbenzene		ND	µg/Kg	42.8	11/14/2016 6:	37:00 PN	ACS	EPA 8021	J4
methyl-t-butyl et	her (MTBE)	ND	µg/Kg	42.8	11/14/2016 6:	37:00 PN	ACS	EPA 8021	
Toluene		ND	µg/Kg	42.8	11/14/2016 6:	37:00 PN	ACS	EPA 8021	
Total Xylene		ND	µg/Kg	42.8	11/14/2016 6:	37:00 PN	ACS	EPA 8021	J4
Diesel		164	mg/kg	25	11/17/2016 3:	49:00 AN	JDB	NWTPHDX	
Lube Oil		ND	mg/kg	100	11/17/2016 3:	49:00 AN	I JDB	NWTPHDX	
%moisture		20.2	Percent		11/10/2	016	ACS	%moisture	
			Surroga	ate Da	ta				
Sample Number	161109076-003								
Surrogate Sta	ndard		Method			Percent	Recovery	Control	Limits
4-Bromofluorol	benzene		EPA 802	21		86	8.9	70-1	30
hexacosane			NWTPH	DX		53	3.4	50-1	50

Authorized Signature

Kathleen a. Sattles

Kathy Sattler, Lab Manager

J4 Reported value is estimated; The sample matrix interfered with the analysis

- MCL EPA's Maximum Contaminant Level
- ND Not Detected
- PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory. The results reported relate only to the samples indicated. Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; FLINELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FLINELAP): E871099

Wednesday, November 23, 2016

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#### Login Report Customer Name: ABLE CLEAN-UP TECHNOLOGIES, INC. 161109076 Order ID: 4117 E. NEBRASKA AVE Order Date: 11/9/2016 SPOKANE WA 99217 Project Name: COLEMAN OIL QUINCY Contact Name: FLAVIO ISHIHURA Comment: 161109076-001 Customer Sample #: QCO-TP-6S Sample #: Recv'd: Matrix: Soil Collector: F ISHIHARA Date Collected: 11/7/2016 Date Received: 11/9/2016 2:17:00 PM Quantity: 1 Time Collected: 2:00 PM Comment: Priority Due Date Test Lab Method %Moisture s %moisture 11/21/2016 Normal (~10 Days) BTEX 8021 s EPA 8021 11/21/2016 Normal (~10 Days) TPHDX-NW NWTPHDX s 11/21/2016 Normal (~10 Days) Sample #: 161109076-002 Customer Sample #: QCO-TP-6D Recv'd: V Matrix: Soil Collector: F ISHIHARA Date Collected: 11/7/2016 Date Received: 11/9/2016 2:17:00 PM Quantity: 1 Time Collected: 2:15 PM Comment: Test Lab Method Due Date Priority %Moisture s %moisture 11/21/2016 Normal (~10 Days) BTEX 8021 s EPA 8021 11/21/2016 Normal (~10 Days) TPHDX-NW s NWTPHDX 11/21/2016 Normal (~10 Days) Sample #: 161109076-003 Customer Sample #: QCO-TP-11S Collector: F ISHIHARA Recv'd: V Matrix: Soil Date Collected: 11/7/2016 Quantity: 1 Date Received: 11/9/2016 2:17:00 PM Time Collected: 2:20 PM Comment: Test Lab Method Due Date Priority %Moisture s %moisture 11/21/2016 Normal (~10 Days) BTEX 8021 s EPA 8021 11/21/2016 Normal (~10 Days) TPHDX-NW s NWTPHDX 11/21/2016 Normal (~10 Days)

### Coleman Oil, Quincy WA

Customer Name:	ABLE CLEAN-UP TECHNOL	OGIES, IN	C.	Order ID:	161109076
	4117 E. NEBRASKA AVE			Order Date:	11/9/2016
	SPOKANE	WA	99217		
Contact Name:	FLAVIO ISHIHURA			Project Name: COLEMAN O	IL QUINCY
Comment:					

### SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	8.9
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

						ed by	Receive
Inspected By						ished by	Relinqu
Date & Time 11-9-16						ad by	Receive
						ished by	Relinqu
Preservative: /Ca.	11/9/16 1417	Wall		Kudt	with	ad by LS	Receive
Temperature (°C) 8-9 * 1 K#1	11-9-16 2:17	Act ,	dise2	Daylin SZZ	ict stauffer	ished by DCIM	Relinqui
multim	Date	Company		Signature	Name - Control Control	Printed	
routread space							
Containers Sealed? Y N							
Labels & Chains Agree?							
Received Intact? N							
			XX	-	) 14:20	Br0-70-115	
				_	( H315	Q00-7P-62	
			XX	5011	11/07/16 14:00	QC0-78-65	
			samp NKU BT	Matrix 1	Sampling Date/Time	Sample Identification	Lab ID
			ile Volu TPH				
_ 1							
Note Special Instructions/Comments	fed with a management	st Analyses Reques	1		imple Description	Provide Sa	
		000	sampler Name & phopeg( $a$				Fax:
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	-2246 8-433	8) 883-2839 FAX 882 509) 838-3999 FAX 83	e, Moscow ID 83843 (20 ), Spokane WA 99202 ()	1282 Alturas Driv 04 E Sprague Ste I	0 <sub>0</sub> 0	Labs, Inc.	
1st SAMP 11/7/2016 1st RCVD 11/9/2016		Record	Chain of Custody			Anatek	
61109 076 ABLE Last 11/21/2016							

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	170517061
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OIL-
	SPOKANE, WA 99217		WENATCHEE
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Number Client Sample ID Matrix Comments	170517061-001 QCO-TP-6S Soil	Sam Sam Sam	pling Date pling Time ple Locatio	5/15/20 2:00 PN	17 1	Date/Time Re Extraction Da	eceived 5/17/ ate	20172:37 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	5/18/2017 10:02:00	PM ACS	EPA 8021	
Ethylbenzene		<100	µg/Kg	25	5/18/2017 10:02:00	PM ACS	EPA 8021	J4
methyl-t-butyl eth	er (MTBE)	ND	µg/Kg	25	5/18/2017 10:02:00	PM ACS	EPA 8021	
Toluene		ND	µg/Kg	25	5/18/2017 10:02:00	PM ACS	EPA 8021	
Total Xylene		91.1	µg/Kg	25	5/18/2017 10:02:00	PM ACS	EPA 8021	
Diesel		8750	mg/kg	25	5/21/2017 10:56:00	AM ARY	NWTPHDX	
Lube Oil		ND	mg/kg	100	5/21/2017 10:56:00	AM ARY	NWTPHDX	
%moisture		14.5	Percent				%moisture	
			Surrog	ate Dat	а			
Sample Number	170517061-001							
Surrogate Star	ndard		Metho	d	Perce	ent Recovery	Contro	Limits
4-Bromofluorob	enzene		EPA 80	021		74.8	70-	130
hexacosane			NWTP	HDX		110.4	50-	150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FLINELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C595; MT:Cert0039; FLINELAP): E871099

Wednesday, June 14, 2017

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Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	170517061
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OIL-
	SPOKANE, WA 99217		WENATCHEE
Attn:	FLAVIO ISHIHURA		

#### Analytical Results Report

Sample Num Client Samp Matrix Comments	nber de ID	170517061-002 QCO-TP-6D Soil	Sam Sam Sam	pling Date pling Time ple Locatior	5/15/20 2:10 PN	17 I	Date/Time Re Extraction Da	eceived 5/17 ate	7/20172:37 PM
Parame	eter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzen	e		ND	µg/Kg	25	5/18/2017 10:40:00	PM ACS	EPA 8021	
Ethylber	nzene		<100	µg/Kg	25	5/18/2017 10:40:00	PM ACS	EPA 8021	J4
methyl-t	t-butyl e	ther (MTBE)	ND	µg/Kg	25	5/18/2017 10:40:00	PM ACS	EPA 8021	
Toluene			ND	µg/Kg	25	5/18/2017 10:40:00	PM ACS	EPA 8021	
Total Xy	lene		96.5	µg/Kg	25	5/18/2017 10:40:00	PM ACS	EPA 8021	
Diesel			1870	mg/kg	25	5/21/2017 11:51:00	AM ARY	NWTPHDX	
Lube Oi	1		ND	mg/kg	100	5/21/2017 11:51:00	AM ARY	NWTPHDX	
%moist	ure		9.8	Percent				%moisture	
				Surrog	ate Dat	а			
Sample Numbe	er	170517061-002							
Surro	gate St	andard		Metho	d l	Perce	ent Recovery	Contro	ol Limits
4-Bror	mofluor	obenzene		EPA 80	021		86.2	70	-130
hexac	osane			NWTP	HDX		87.6	50	-150

Authorized Signature

Kathleen a. Sattle

Kathleen A. Sattler, Lab Manager

J4 Reported value is estimated; The sample matrix interfered with the analysis

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

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Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Wednesday, June 14, 2017

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#### Login Report Customer Name: ABLE CLEAN-UP TECHNOLOGIES, INC. 170517061 Order ID: 4117 E. NEBRASKA AVE Order Date: 5/17/2017 SPOKANE WA 99217 Project Name: COLEMAN OIL-Contact Name: FLAVIO ISHIHURA WENATCHEE Comment: 170517061-001 Customer Sample #: QCO-TP-6S Sample #: Recv'd: V Matrix: Soil Collector: FISHIHARA Date Collected: 5/15/2017 Time Collected: 2:00 PM Quantity: 1 Date Received: 5/17/2017 2:37:00 PM Comment: Test Lab Method Due Date Priority %Moisture s 5/30/2017 %moisture Normal (~10 Days) BTEX 8021 s EPA 8021 5/30/2017 Normal (~10 Days) TPHDX-NW s NWTPHDX 5/30/2017 Normal (~10 Days) Sample #: 170517061-002 Customer Sample #: QCO-TP-6D Recv'd: V Matrix: Soil Collector: F ISHIHARA Date Collected: 5/15/2017 Quantity: 1 Date Received: 5/17/2017 2:37:00 PM Time Collected: 2:10 PM Comment: Test Method Due Date Priority Lab %Moisture s %moisture 5/30/2017 Normal (~10 Days) BTEX 8021 s EPA 8021 5/30/2017 Normal (~10 Days) TPHDX-NW s NWTPHDX 5/30/2017 Normal (~10 Days)

Customer Name:	ABLE CLEAN-UP TECHNOI	LOGIES, IN	IC.	Ore	ler ID:	170517061
	4117 E. NEBRASKA AVE			Order	Date:	5/17/2017
	SPOKANE	WA	99217			
Contact Name:	FLAVIO ISHIHURA			Project Name:	COLEMAN O	IL-
Comment:						

### SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	6.3/6.4
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

Anatek Labs, Inc.       Chain of Custody Record       OLEMAN OL-WENATCHEE         Consumption, Masse, Soft E Sprager Set, E, Sprager Set, E, Sprager Set, B, Sprak SB, 399 PLAX SB-29246       OLEMAN OL-WENATCHEE         Consumption, Masse, Masse, MH2 Clearing, Tech. and English, Masse, MH2 Clearing, Tech. and English, Masse, MH2 Clearing, Tech. and Time & Reporting, Sprachave, State, MA 29, 912.17       Prove Masse, Masse, MA 29, 912.17       Prove Masse, Masse, MA 29, 912.17       Prove Masse, Mas			70517 061 ABLE Last 5/30/2017 St SAMP 5/15/2017 1st RCVD 5/13/2017
Lation       122 Altras Drive, Miscon ID 8843 (200) 833-3999 FAX 882-024       Image: Construction of the second s	Anatek	Chain of Custody Record	OLEMAN OIL-WENATCHEE
Soft R. Springer Str. Di. Sprin	Laos, O 1282 A	lturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246	
Able     Clamp     Technologica     Flwip       Gass     117     E. Nebracka     Proof Name 3       Proof Name 3     2992.17     Base del to or normal un acud uns at the toor normal una acud una at the toor normal una at the t	Company Name,	Project Manager	Turn Around Time & Reporting
Sames     UI 7     E. Nebrack     Provide Sames       Provide     2992.17     Sames     Sames     Sames     Sames     Sames     Provide	Able Cleanup Iconologies	Flavio	Please refer to our normal turn around times at:
Internal Adjoint     State:     2 p g2 1 7     Email Adjoint     Email Adjoint     Mail       Internal Control     Provide Sample Description     Internal Control     Internal Control     Internal Control     Internal Control       Provide Sample Description     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Internal Control       Internal Control     Internal Control     Internal Control     Internal Control     Interal Control       Inte	4117 E. Nebraska	Coleman Oil-Wenatchee	http://www.anateklabs.com/services/guidelines/reporting.asp
Provide Sample Description     Notese Drift Name & provide Sample Description     Main the provide Sample Description     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Description     Ist Analyses Requested     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Description     Ist Analyses Requested     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Description     Ist Analyses Requested     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Description     Ist Analyses Requested     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Description     Ist Analyses Requested     Note Special Instructions/Comments       Iab D     Sample Identification     Sample Instructions/Comments     Inspection Checklist       QCO-TP-GS     5/15/17, 1/400     Soil I     I     X       QCO-TP-GD     VI220     Soil I     I     X     Inspection Checklist       Quest Instruction Checklist     Inspection Checklist     Inspection Checklist     Inspection Checklist       Quest Instruction Checklist     Inspection Checklist     Inspection Checklist     Inspection Checklist       Quest Instruction Checklist	City Spokane, WA 9921	7 able demus added en up. com	All rush order requestsPhone
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If IAU'O       Note Special Instructions/Comments       Ist Analyses Requested       Note Special Instructions/Comments       Ist Analyses Requested       Ist Analyses Requested       Note Special Instructions/Comments       Ist Analyses Requested	Fax (01) 766 - 5255	Sampler Name & phone	Other*
Provide Sample Description     List Analyses Reclassion     Note Special instructions: comments       Instructions: Comments     Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Comments     Instructions: Comments       Instructions: Second instructions: Comments     Instruction: Checklist       Instruction: Compary     Instruction: Checklist       Instruction: Compary     Instruction: Compary       Instruction: Compary     Inter       Inspected by     Inspected By: Max	Drouida Comple Description	Flavio	Note Oracial Instructions (Commonte
Lab. D     Sample Identification     Sampling Date/Time     Matrix     Matrix     Matrix       Lab. D     Sampling Date/Time     Matrix     Matrix     X     V     V       C.CO-TP-GS     5/15/17,11400     Soil     I     X     V     V       QCO-TP-GD     V     1420     Soil     I     X     V     V       QCO-TP-GD     V     IA20     V     V     N     V       QCO-TP-GD     V     V     V     V     N     V       QCO-TP-GD     V     V     V     V     N     V	Flovide Sample Description	Preservative	Note Special Instructions/Comments
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Printed Name     Signature     Company     Date     Time     Challenge of the second of the se			and Itallia
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Received by Koff Kutt Unatul 5/17/01/937 Preservative: Received by Date & Time: 5-17-17 44/1575 Relinquished by Date & Time: 5-17-17 44/1575 Relinquished by Inspected By M/02	Relinquished by Faul Von Midelloswork 7	210/ Hillert ACT 5/17/17	Temperature (°C) 6-3 /6.9 * /R#1
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Received by	Received by		and and

1282 Alturas Drive · Moscow, ID 83843 · (208) 883-2839 · Fax (208) 882-9246 · email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	ABLE CLEAN-UP TECHNOLOGIES, INC.	Batch #:	170818054
Address:	4117 E. NEBRASKA AVE	Project Name:	COLEMAN OILQUINCY
	SPOKANE, WA 99217		
Attn:	KIPP SILVER		

#### Analytical Results Report

Sample Number Client Sample II Matrix Comments	r 170818054-001 D QCO-TP-6S-081717 Soil	Sam Sam Sam	pling Date pling Time ple Location	8/17/201 n	17 D E	)ate/Time Re Extraction Da	ceived 8/18/2 te 8/29/2	20174:25 PM 2017
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzene		ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
Ethylbenzer	ne	ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
m+p-Xylene	•	ND	µg/Kg	50	8/29/2017 4:28:00 F	M ACS	EPA 8021	
methyl-t-but	yl ether (MTBE)	ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
o-Xylene		ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
Toluene		ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
Total Xylene	2	ND	µg/Kg	25	8/29/2017 4:28:00 F	M ACS	EPA 8021	
Diesel		916	mg/kg	25	8/30/2017 12:11:00 /	AM APM	NWTPHDX	
Lube Oil		ND	mg/kg	100	8/30/2017 12:11:00 /	AM APM	NWTPHDX	
%moisture		8.1	Percent		8/29/2017	APM	%moisture	
			Surrog	jate Dat	ta			
ample Number	170818054-001							
Surrogate	e Standard		Metho	d	Percen	t Recovery	Control	Limits
4-Bromoflu	uorobenzene		EPA 80	021	1	105.0	70-1	130
hexacosar	ne		NWTP	HDX	1	88.8	50-1	150
Authorized Signatu MCL EPA's Max ND Not Detect	re Kathleen A. Sai Kathleen A. Sai dmum Contaminant Level led	<b>lum () da</b> tler, Lab Mani	ЩА ager					

PQL Practical Quantitation Limit

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Certifications held by Anatek Labs ID: EPA:ID00013; A2:0701; FL/NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C595; MT:Cert0095; FL/NELAP): E871099

Monday, September 04, 2017

Page 1 of 1

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#### Login Report Customer Name: ABLE CLEAN-UP TECHNOLOGIES, INC. Order ID: 170818054 4117 E. NEBRASKA AVE Order Date: 8/18/2017 99217 SPOKANE WA Contact Name: KIPP SILVER Project Name: COLEMAN OIL--QUINCY Comment: Sample #: 170818054-001 Customer Sample #: QCO-TP-6S-081717 Collector: PAUL VAN MIDDLESWO Date Collected: 8/17/2017 Recv'd: ✓ Matrix: Soil Quantity: 1 Date Received: 8/18/2017 4:25:00 PM Time Collected: Comment: Test Lab Method Due Date Priority %Moisture s 8/28/2017 %moisture Normal (~10 Days) BTEX 8021 s EPA 8021 8/28/2017 Normal (~10 Days) TPHDX-NW s NWTPHDX 8/28/2017 Normal (~10 Days) SAMPLE CONDITION RECORD Samples received in a cooler? Yes Samples received intact? Yes What is the temperature of the sample(s)? (°C) 8.0/8.1 Samples received with a COC? Yes Samples received within holding time? Yes Are all sample bottles properly preserved? Yes Are VOC samples free of headspace? Yes Labels and chain agree? Yes Total number of containers? 1

Received by	Reinquished by	Received by	Relinquished by	Received by	Reinquished by								aco-TP-	Lab ID Sample Identifica		111	Fax	Phone (509)46	Address 4117 E	Company Name Able	In	Anate
				He at	Faul Van Mildlern	Printed Name S							1/11/2 TITI80-23	tion Sampling Date/Time		And adultic reactificant		e WA 49	Nebraska	Cleanus Trike	000	c k
			/ ~ /	Fredhe Stalle Sill	with fall will the ACT didle	gnature Conspany Date							Sall I XX I I I	# of Cor Sample TPH - BTE	Volume	Prevvate List Ai Idiyas Actusticu	Sampier Mane & phone	9217 able de any pable de un up és	1 Project Name & # " Oil - Quincy	Project Manager Kipp Silver	1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 14 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433	Chain of Custody Record
	Inspected By	Date & Time		7 //// Preservative ////	2/625 Temperature (°C) _ C _ / C / * 10 +4	Ime NEAD /1/ CALL/CC	VOC Head space? Y N	Containers Sealed? Y N	Labels & Chains Agree? Y N	Received Intact? (Y N	Inspection Checklist					Note special instructions/comments	- 2002		Pease reler to our normal turn around times at: http://www.araelekiate.com/services/guidel/real/recorting.eep	Turn Around Time & Reporting		Anatok Lugi-h

### ATTACHMENT III Site Pictures



**Figure 1.** Image showing the boom deployed to contain diesel that spilled into the pond adjacent to the Coleman Oil facility



Figure 2. Image showing containment and cleanup techniques used by ACT to remediate the site



Figure 3. Image showing accumulation of red dyed diesel in secondary containment



Figure 4. ACT utilized a Vacuum truck to remove 7,000 gallons of diesel/water from pond



Figure 5. ACT personnel skimming red diesel off the pond using a Vacuum truck.



Figure 6. Image of pond post cleanup


**Figure 7.** In May of 2016 ACT returned to the spill site and dug test pits to determine if contaminants were present in the soil



Figure 8. ACT personnel collecting soil sample for headspace analysis.

Attachment IV Sampling and Analysis Plan

## 3.0.0 SAMPLING AND ANALYSIS PLAN

### 3.1.0 General

The sampling and analysis plan will comply with applicable State, Federal and local regulations. The sampling procedures conform to Environmental Regulation 1110-1-263 and USACE Memorandum "Sample Handling Protocol for low, medium, and high Concentration Samples of Hazardous Wastes" October 1986, and EPA requirements and guidelines.

## **3.2.0 Field Screening Techniques**

During contaminated soil investigations samples will be taken for headspace analysis to determine if soil contamination is present. These samples will be analyzed in the field utilizing one of the following procedures:

**Option 1** (to be used when ambient air temperatures are low enough to prevent volatilization of organic compounds within sampled soils, i.e. below 80°F)

- 1. Select a clean, plastic zipper type air tight baggy.
- 2. Fill the baggy 1/3 full with a discrete soil sample.
- 3. Immediately place seal the baggy to prevent volatile components from escaping.
- 4. Place the soil sample baggy in warm to hot environment for 5-10 minutes (vehicle heater or sun rays). This causes the volatile components to become vapors and collect in the space above the soil. Very moist soils shall be allowed to sit in the sun for 10-15 minutes.
- 5. Remove the sample container from the warm/hot environment and insert the instrument probe through the plastic for vapor analysis. This must be accomplished within thirty seconds to prevent the sample from cooling and creating a vacuum in the sample container.

Prior to using the instrument a bump test is performed using a felt pen cap over the end of the sensor probe. This will create an artificial sensor reading.

- 6. Record the instrument response, sample number and sample location and time in which the sample was collected in the Field Log.
- 7. Allow sufficient time for the instrument to clear prior to analysis of further samples.
- **Option 2** (to be used when ambient air temperatures are sufficient to promote volatilization of organic compounds in sampled soils, i.e. above 80°F). Prior to using the instrument a bump test is performed using a felt pen cap over the end of the sensor probe. This will create an artificial sensor reading.

1. Soil is to be extracted using either an excavator or hand tools

1a.) For instances where soil is to be extracted using an excavator, the soil to be tested shall come from the interior of the excavator's bucket to minimize cross contamination with machinery and/or other potentially contaminated soils.

1b.) Any hand tools used will be decontaminated in a solution of tri-sodium phosphate and water and rinsed with de-ionized water after each use.

2. Soil is to be carried several yards from the excavation in order to get a discrete reading, i.e. vapor content is representative of the soil being sampled and not subject to the ambient air of the excavation site as a whole.

3. Hold sensor probe close to the mass of soil without touching probe directly to soil (~2-3 mm should suffice) until readings stabilize.

- 4. Record the instrument response, sample number and sample location and time in which the sample was collected in the Field Log.
- 5. Allow sufficient time for the instrument to clear prior to analysis of further samples.

### **3.3.0 Field Instrumentation**

### Photo Ionization Detector

Able Clean-up Technologies uses a handheld VOC monitor MiniRAE 3000 for field screening of petroleum products and volatile organic compounds. The MiniRAE 3000 will analyze over 100 different gases.

### Alarm Signals

The built-in microcomputer updates the gas concentrations every second and compares them with the programmed alarm limits (TWA, STEL, and two instantaneous gas concentration alarm limit settings: Low & High). Whenever the concentration exceeds the sensor's preset limits, the loud buzzer and red flashing LED are activated immediately to warm the user of the alarm condition.

In addition, MiniRAE 3000 will alarm if one of the following conditions occurs: battery voltage falls below a pre-set level (4.4 V), failure of the UV lamp, LEL sensor off, pump stall or when the datalog memory is full. When the low battery alarm occurs, there will be approximately 20-30 minutes of operating time remaining. When the battery voltage falls below 4.2 V, the monitor will be turned off automatically.

The MiniRAE 3000 multi-gas Monitor is factory calibrated with standard calibration gas, and is programmed with default alarm limits as listed below.

Gas ppm	Cal Gas/ Balance	Unit	TWA	STEL	Low	High
СО	50 / Air	Ppm	35	100	35	200
H2S	25 / N2	Ppm	10	15	10	20
SO2	5 / N2	Ppm	2	5	2	10
NO	25 / N2	Ppm	25	25	25	50
NO2	5 / Air	Ppm	1	1	1	10
CL2	10 / N2	Ppm	0.5	1	0.5	5
02	20.9 / N2	%Vol	-	-	19.5	23.5
CH4	50 / Air	%LEL	-	-	10	20
HCN	10 / N2	ppm	5	5	5	50
NH3	50 / N2	Ppm	25	35	25	50
PH3	5 / N2	Ppm	0.3	1	1	2
VOC*	100 / Air	Ppm	10.0	25.0	50.0	100

Factory Calibration and Preset Alarm Limits:

\*Note: 100 ppm isobutylene gas is used for VOC gas calibration

## Integrated Sampling Pump

The Able Clean-up Technologies uses the handheld VOC monitor MiniRAE 3000 for field screening of petroleum products and volatile organic compounds.

### Alarm Signals

During each measurement period, the gas concentration is compared with the programmed alarm limits; if the concentration exceeds any of the preset limits, the loud buzzer and red flashing LED are activated immediately to warn you of the alarm condition.

In addition, the instrument alarms if one of the following conditions occurs: battery voltage falls below preset voltage level, failure of the UV lamp, or pump stall.

The instrument is factory calibrated with standard calibration gas and is programmed with default alarm limits.

## Integrated Sampling Pump

The instrument includes an integrated sampling pump, this diaphragm-type pump that provides a 450 to 550 cc per minute flow rate. Connecting a Teflon or metal tubing with 1/8" inside diameter to the gas

inlet port of the instrument, this pump can pull in air samples from 100' (30 m) away horizontally or vertically.

If liquid or other objects are pulled into the inlet port filter, the instrument detects the obstruction and immediately shuts down the pump. The alarm is activated and a flashing pump icon is displayed.

The user needs to acknowledge the pump shutoff condition by clearing the obstruction and pressing the [Y/+] key while in the main reading display to restart the pump.

Multi-gas Monitor includes an integrated sampling pump. This is a diaphragm pump providing about 300 cc per minute flow rate at the high setting with the standard filters in place.

A low pump speed of about 200 cc per minute is the factory default setting, which will increase the battery life by about 5% and result in an increased LEL sensor lifetime.

The high pump speed setting is required for vapors that are especially reactive or absorb easily to instrument surfaces. Such vapors include Cl2, PH3, NH3, HCN, and semi-volatile organic compounds like diesel fuel and jet fuels. For such compounds it is helpful to remove the water trap filter for normal calibration and operation, which will increase the pump speed to about 350 cc/min. It is also desirable to use inert connecting and sampling tubing, such as Teflon instead of Tygon, and to make connections as short as possible.

The pump is turned on automatically when the monitor is turned on and remains on during normal operation.

If liquid or other objects are sucked into the water trap in the inlet port and cause the pump to stall, the electronics of the monitor will detect the obstruction and shut down the pump immediately. The alarm will be activated and a flashing error message APump@ will be also displayed in the LCD display.

The user needs to acknowledge the pump shut off condition by pressing the (Y/+) key to re-start the pump. Different pump shut-off thresholds are desired for the two pump settings: this value can be adjusted in the Special Diagnostic Mode.

## **3.3.1** Calibration of Testing Equipment

In programming mode, the user may re-calibrate the sensors in the Able Clean-up Technologies uses the handheld VOC monitor MiniRAE 3000 for field screening of petroleum products and volatile organic compounds.

### Alarm Signals

During each measurement period, the gas concentration is compared with the programmed alarm limits; if the concentration exceeds any of the preset limits, the loud buzzer and red flashing LED are activated immediately to warn you of the alarm condition.

In addition, the instrument alarms if one of the following conditions occurs: battery voltage falls below preset voltage level, failure of the UV lamp, or pump stall.

The instrument is factory calibrated with standard calibration gas and is programmed with default alarm limits.

Integrated Sampling Pump

The instrument includes an integrated sampling pump, this diaphragm-type pump that provides a 450 to 550 cc per minute flow rate. Connecting a Teflon or metal tubing with 1/8" inside diameter to the gas inlet port of the instrument, this pump can pull in air samples from 100' (30 m) away horizontally or vertically.

If liquid or other objects are pulled into the inlet port filter, the instrument detects the obstruction and immediately shuts down the pump. The alarm is activated and a flashing pump icon is displayed.

The user needs to acknowledge the pump shutoff condition by clearing the obstruction and pressing the [Y/+] key while in the main reading display to restart the pump monitor. This is a two-point calibration process using Afresh air@ and the standard reference gas. First, a Afresh air@ and the standard reference gas. First, a Afresh air@ which contains 20.9% oxygen and no detectable VOC, toxic or combustible gases is used to set the zero point for each sensor. Then a standard reference gas, which contains a known concentration of a given gas, is used to set the second point of reference (also known as span gas). The two-point calibration procedure is detailed below. Table 4.3 shows the sub-menus for calibration operations.

The preferred calibration method for monitors with pumps is to place the calibration gas in a gas sample bag (Tedlar bag). Connect the bag to the MiniRAE 3000 gas inlet port when you are ready to perform the calibration. Users may find it more convenient to connect the MiniRAE 3000 directly to the gas bottle using a flow-on-demand type regulator. Calibration through such a regulator will produce similar results to the sample bag method with most gases, but flow-on-demand regulators are not recommended with H2S. In an emergency, the MiniRAE 3000 can also be calibrated directly from a fixed flow regulator with a flow rate between 0.5 and 1.0 liters per minute.

MiniRAE 3000 diffusion monitors must be calibrated using a fixed flow regulator with a flow rate between 0.5 and 1.0 liters per minute. Diffusion monitors are supplied with a special calibration adapter that covers the gas diffusion port.

The calibration adapter links up the inlet port of the MiniRAE 3000 Monitor to the gas sample bag.

# 3.4.0 Soil and Water Sample Collection Methods

## Method 5035

The procedures outlined here are summarized from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, Method 5035.* 

# 3.4.1 Soil Samples for Volatile Organic Compounds (VOC) Analysis

If samples are to be analyzed for volatile organic compounds, they should be collected in a manner that minimizes disturbance of the sample. For example, when sampling with an auger bucket, the sample for VOC analysis should be collected directly from the auger bucket (preferred) or from minimally disturbed material immediately after an auger bucket is emptied into the pan. The sample shall be containerized by filling an ~Sampler or other Method 5035 compatible container. *Samples for VOC analysis are not homogenized*. Preservatives may be required for some samples with certain variations of Method 5035. Consult the method or the principal analytical chemist to determine if preservatives are necessary.

# 3.4.2 Soil Sampling (Method 5035)

The following sampling protocol is recommended for site investigators assessing the extent of volatile organic compounds (VOCs) in soils at a project site. Because of the large number of options available, careful coordination between field and laboratory personnel is needed. The specific sampling containers and sampling tools required will depend upon the detection levels and intended data use. Once this information has been established, selection of the appropriate sampling procedure and preservation method best applicable to the investigation can be made.

# 3.4.2.1 Sampling Methodology - High Concentrations (>200 ug/kg)

Based upon the data quality objectives and the detection level requirements, this high level method may also be used. Specifically, the sample may be packed into a single 2-oz. glass container with a screw cap and septum seal. The sample container must be filled quickly and completely to eliminate head space. Soils\sediments containing high total VOC concentrations may also be collected as described in Section 3.2.2, Sampling Methodology - Low Concentrations, and preserved using 10 mL methanol.

# 3.4.2.2 Special Techniques and Considerations for Method 5035

### Effervescence

If low concentration samples effervesce from contact with the acid preservative, then either a test for effervescence must be performed prior to sampling, or the investigators must be prepared to collect each sample both preserved or un-preserved, as needed, or all samples must be collected unpreserved.

To check for effervescence, collect a test sample and add to a pre-preserved vial. If preservation (acidification) of the sample results in effervescence (rapid formation of bubbles) then preservation by acidification is not acceptable, and the sample must be collected un-preserved,

If effervescence occurs and only pre-preserved sample vials are available, the preservative solution may be placed into an appropriate hazardous waste container and the vials triple rinsed with organic free water. An appropriate amount of organic free water, equal to the amount of preservative solution, should be placed into the vial. The sample may then be collected as an un-preserved sample. Note that the amount of organic free water placed into the vials will have to be accurately measured.

## Sample Size

While this method is an improvement over earlier ones, field investigators must be aware of an inherent limitation. Because of the extremely small sample size and the lack of sample mixing, sample representativeness for VOCs may be reduced compared to samples with larger volumes collected for other constituents. The sampling design and objectives of the investigation should take this into consideration.

## Holding Times

Sample holding times are specified in the *Analytical Support Branch Laboratory Operations and Quality Assurance Manual* (ASBLOQAM), Most Recent Version. Field investigators should note that the holding time for an un-preserved VOC soil/sediment sample on ice is 48 hours. Arrangements should be made to ship the soil/sediment VOC samples to the laboratory by overnight delivery the day they are collected so the laboratory may preserve and/or analyze the sample within 48 hours of collection.

## Percent Moisture and Preservative Compatibility (MOICA)

Samplers must ensure that the laboratory has sufficient material to determine percent moisture in the VOC soil/sediment sample to correct the analytical results to dry weight. If other analyses requiring percent moisture determination are being performed upon the sample, these results may be used. If not, a separate sample (minimum of 2 oz.) for percent moisture determination will be required. The sample collected for percent moisture may also be used by the laboratory to check for preservative compatibility.

### <u>Safety</u>

Methanol is a toxic and flammable liquid. Therefore, methanol must be handled with all required safety precautions related to toxic and flammable liquids. Inhalation of methanol vapors must be avoided. Vials should be opened and closed quickly during the sample preservation procedure. Methanol must be handled in a ventilated area. Use protective gloves when handling the methanol vials. Store methanol away from sources of ignition such as extreme heat or open flames. The vials of methanol should be stored in a cooler with ice at all times.

# When Method 5035 is Not Viable as a Sampling Procedure

- 1. Whenever possible, samples will be gathered by the backhoe operator who will excavate material and make it available to the ACT environmental technician.
- 2. If the situation is such that a representative sample cannot be gathered by the backhoe, the ACT environmental technician will enter the pit to obtain the sample. If the entry is necessary, a ladder and second means of egress will be provided. If the excavation walls cannot conform to the angle of repose (i.e., 37 degrees from horizontal or less) then the sidewalls will be shored temporarily assuming the excavation is over five feet in depth and is not located in bedrock, solid rock, hard shale, hard pan, cemented sand or gravel, or similar stable material in which there is no possibility of movement or cave- in.
- 3. If groundwater is present, samples will be taken of the water.
- 4. One soil sample will be taken in each area that is suspected to be contaminated, based on visual inspection and head space analysis results.

5. If groundwater is exposed, two water samples will be taken, one from the surface of the water and one completely below the surface.

The shipment and disposal methods for rinsate, sludge and/or contaminated water will be based on the results of the sample analyses. All material will be disposed of in accordance with all Federal, State and local requirements for the material that has been identified.

## 3.5.1 Sample Numbering Systems

A 7-8 digit sampling numbering scheme will be used to identify the samples as follows:

Example No. : QCO-TP-1

Quincy Coleman Oil
Total Petroleum
Sample Number
Shallow
Deep
Headspace

Type of sample: Each sample will be identified according to the following chart:

Type of Sample	CODE
Head space	HS
Soil or water sample	QCO

## 3.5.2 Sampling Equipment Handling and Decontamination

Sampling utensils which contact environmental supplies will be decontaminated, inspected and repaired as necessary after each use. The decontamination procedure will be conducted as follows:

- 1. Wash the utensil in a solution of tri-sodium phosphate (TSP) and water. The solution shall consist of 1/4 cup TSP and 4 gallons portable water.
- 2. Rinse the utensil with deionized water.
- 3. Repeat steps 1. and 2. when the utensil comes in contact with highly contaminated media.
- 4. Store the utensil in its protective case. Utensils will not be placed in the case until they have been properly decontaminated. In the event that a utensil is placed in its protective case prior to decontamination, the protective case, as well as the utensil will be decontaminated prior to use.
- 5. Rinsate from this procedure will be disposed of off-site in an environmentally safe manner, according to all Federal, State and local regulations.

# **3.5.3** Sample Handling and Shipment

Sample handling and shipment procedures are discussed under section 4.0 Sample Analysis Quality Control and Quality Assurance Plan

## 3.5.4 Head Space Sampling and Testing Procedure

The excavation material was evaluated using field head space analysis performed with a PID. This was performed on site to estimate if the soil survey samples were impacted or not. This procedure entailed the extraction of samples from a boring at the grid intersections.

The results from the head space tests were utilized to evaluate the potential extent of contamination. When the head space analytical results indicated that the excavated soils were within acceptable limits of contamination which is less than 5ppm, no laboratory samples were collected. If the head space sample was over 5ppm than a laboratory sample was extracted and transported under Chain of Custody directly to the laboratory for analysis.

# 4.0.0 SAMPLING ANALYSIS QUALITY CONTROL & QUALITY ASSURANCE PLAN

## 4.1.0 General

The Quality Assurance and Quality Control Plan will comply with applicable State, Federal and local regulations. The sampling procedures conform to the technical specifications of the contract and USACE-Environmental Regulation 1110-1-263 and USACE Memorandum "Sample Handling Protocol for low, medium, and high Concentration Samples of Hazardous Wastes" October 1986, and EPA requirements and guidelines.

## 4.2.0 Field Sampling Quality Control

Field sampling procedures developed for this project reflect a level of quality which is consistent with applicable Federal, State and local guidelines. The following outline describes the Q.C. Field Sampling Procedures.

## 4.2.1 Soil Sampling

Soil samples are collected from the backhoe bucket wherever possible. The sampler will direct the backhoe operator to place the bucket at the desired sample location. The backhoe operator will collect no less than 1/4 cubic yard and move the bucket to a location safely accessible to the sampler. However, on occasion it may be necessary for the sampler to enter the excavation to collect a soil sample that is inaccessible to the backhoe bucket. Stable embankment slopes (min. 1.5h:1.0v) or temporary shoring must be provided prior to entry by the sampler.

Using decontaminated sampling utensils, the sampler will remove sufficient soil to ensure that the backhoe bucket did not come into contact with the soil sample to be collected. The sample will be collected from the center of the bucket at least six inches below the soil surface to ensure that volatilization of aromatic compounds in the soil does not occur.

In general, soil sample collection and control will follow the protocol described below:

- A. Select a laboratory certified clean sample jar for sample collection.
- B. Using clean latex gloves and clean sampling utensils (see Sampling Utensil Decontamination) tightly pack the soil sample in the sample jar to prevent any air space.

- C. Label the jar with the soil sample number, the type of laboratory test required, the date, name of site and the name of the sampler.
- D. Enter the sample on the chain of custody (COC) form.
- E. Pack the sample in an ice chest packed with blue ice following all guidelines established in Section 4.3.C.3
- F. When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.
- G. Transport the ice chest to a commercial courier for shipment to the laboratory.

## 4.2.2 Groundwater Sampling

The procedure for collection of groundwater samples for laboratory analysis is as follows:

- A. Select a laboratory certified clean sample jar for sample collection.
- B. Using clean latex gloves, collect a sample of groundwater by immersing it in the exposed groundwater (Note: it will be necessary for the sampler to enter the excavation to accomplish this task). Place the cap on the sample jar(s)/vial(s) underwater to ensure the absence of air. Invert the sample to ensure there is no air space included with the sample.
  C. Invert the sample and verify the absence of airspace.
- D. Label the jar with the groundwater sample number, the type of laboratory test required, the date, name of site and the name of the sampler.
- E. Enter the sample on the chain of custody form.
- F. Pack the sample in an ice chest packed with blue ice for shipment.
- G When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.
- H. Transport the ice chest to a commercial courier for shipment to the laboratory.

# 4.2.3 Head space Sampling and Testing Procedure

The procedure for collection and analysis of head space samples is as follows:

- A. Select a clean, sealable plastic bag.
- B. Fill the bag 1/3 full with a discrete soil sample.
- C. Immediately seal the opening as to not vent volatile components from escaping.
- D. Place the sample container in a warmed location for 10 minutes. This causes the volatile components to become vapors and collect in the space above the soil.
- E. Remove the sample container from the warmed location and insert the instrument probe through the opening for vapor analysis. This must be accomplished within thirty seconds to prevent the sample from cooling and creating a vacuum in the sample container.
- F. Record the instrument response, sample number and sample location in the Field Log.

## 4.2.4 Rinsate Sampling

The procedure for collection of rinsate samples for laboratory analysis is as follows:

- A. Select a laboratory certified clean sample jar for sample collection.
- B. Using clean latex gloves, collect a sample of rinsate by immersing it in the liquid contained in drum for each tank cleaning. Place the cap on the sample jar(s)/vial(s) under the surface of the liquid to ensure the absence of air. Invert the sample to ensure there is no air space included with the sample.
- C. Invert the sample and verify the absence of airspace.

- D. Label the jar with the rinsate sample number, the type of laboratory test required, the date, name of site and the name of the sampler.
- E. Enter the sample on the chain of custody form.
- F. Pack the sample in an ice chest packed with blue ice for shipment.
- G. When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.
- H. Transport the ice chest to a commercial courier for shipment to the laboratory.

## 4.3.0 Laboratory / Quality, Control

- A. Anatek Labs Inc. will be responsible for quality control of soil and groundwater samples at the facility. They will provide QA/QC sample analysis.
- B. Analysis of all samples from soil, water or decontamination water will be performed by the following laboratory:

## ANATEK LABS, INC.

Washington State Accredited Lab 504 E. Sprague Spokane, WA 99202 Phone: 509-838-3999 Fax: 509-838-4433 http://www.anateklabs.com/

- C. Samples will be handled in accordance with the following protocol:
  - 1. *Purpose*. This protocol provides guidance on sample volumes, containers, packing, and shipping for low, medium, and high concentration environmental samples taken for chemical analysis.
  - 2. *Applicability.* This guidance applies to all samples taken for HTW chemical analysis. The requirements are consistent with those of the Environmental Protection Agency and all standard chemical methods generally used are included.
  - 3. *Low Concentration Samples.*
  - a. Waters.
  - (1) Organics.
    - (a) Bottle and Preservative Requirements.
      - X Four 1-liter amber glass bottles (Teflon-lined caps), iced to 4oC (may not be held at site over 24 hours). Refer to Table 1-A through 1-D.
      - X Two 40 mL glass VOA vials (with Teflon septa), iced to 4oC (may not be held at site over 24 hours). Add HCl (4 drops of concentrated HCl) or NaHSO<sub>4</sub> to pH < 2.
      - X The samples above are needed when Method 8240 is used to analyze for volatile (or purgeable) organics, when Methods 8250 or 8270 are used to analyze for Base/Neutral/Acid (B/N/A) extractable organics, and when Method 8080 is used to analyze for pesticides and PCB's. Two of the 1-L bottles are needed for 8250 or 8270 and two for 8080.
      - X Oil and Grease, Total Organic Carbon (TOC) or TRPH. For each analyte, two 1-liter glass bottles (Teflon-lined cap), 5 mL 1:1 HCl (to pH < 2), and 4°C.
    - (b) Paperwork/Labels. Chain of Custody Record. It is important to note that only <u>one</u> site be listed per form even if the sites have the same sample project number. Top original goes with the samples; a copy will be saved for the sampler's files.

- X Receipt for Samples. This form complies with the requirements that the operator or agentin-charge is legally entitled to: (1) a receipt describing the samples obtained from the site and (2) a portion of each sample equal in weight or volume to the portion retained, if requested. The original form is retained for the Project Coordinator and a copy is given to the operator or agent-in-charge.
- X Sample Labels. Samples will be labeled with a date, time of collection, site name, and brief description on a label that will <u>not</u> float/soak off. Numbered sample labels will be used on all samples.
- (c) Packaging and Shipping.
  - X Waterproof metal (or equivalent strength plastic) ice chests or coolers will be used.

## Method:

- 1. After filling out the pertinent information on the sample label, put it on the sample bottle or vial and screw on the lid. For bottles other than VOA vials, secure the lid with strapping tape. (Tape on VOA vials may cause contamination.)
- 2. Mark volume level on bottle with grease pencil.
- 3. Place about 3 inches of inert cushioning material such as vermiculite in the bottom of the cooler.
- 4. Enclose the bottles in clear plastic bags through which sample tags and labels are visible, and seal the bag. Place bottles upright in the cooler in such a way that they <u>do not touch</u> and will not touch during shipment.
- 5. Put in additional inert packing material to partially cover sample bottles (more than halfway). Place bags of ice around, among, and on top of the sample bottles. If chemical ice is used, it should be placed in a plastic bag.
- 6. Fill cooler with cushioning material.
- 7. Put paperwork (chain of custody record) in a waterproof plastic bag and tape it with masking tape to the inside lid of the cooler if applicable.
- 8. Tape the drain shut.
- 9. Secure lid by taping. Wrap the cooler completely with strapping tape at a minimum of two locations. Do not cover any labels.
- 10. Attach completed shipping label to top of the cooler.
- 11. Put "This Side Up" labels on all four sides and "Fragile" labels on at least two sides.
- 12. Affix numbered and signed custody seals on front right and back left of cooler. Cover seals with wide, clear tape.

- 13. Each cooler cannot exceed the weight limit set by the shipper.
- (2) Soils/Sediments (Organic and Inorganic).
- (a) <u>Bottle and Preservative Requirements.</u> Two 8-ounce glass wide mouth jars at least 3/4 full (Teflon-lined), iced to 4°C - one jar for organics (non-VOA) and one jar for inorganic. For analysis of volatile in soil, two 40 mL VOA vials or two 125 Ml jars with Teflon septa are used. These will be completely filled and iced to 4°C.
- (b) <u>Paperwork/Labels</u>. Paperwork requirements are the same as those samples in Section 4.2.2 C.3(b)above.
- (c) <u>Packaging and Shipping</u>. Packaging and shipping requirements are the same as those listed in Section 4.2.2 C 3 (c) above.
- 4. Medium Concentration Samples.
  - a. <u>Water/Liquids (Organics and Inorganic).</u>

\*\*Note: Samples are <u>not</u> known to contain highly toxic compounds.

- (1)Bottle and Preservative Requirements.
  - XFour 32-ounce wide mouth glass jars (Teflon-lined caps), no preservatives, and iced to 4°C for B/N/A extractable organics and PCB Pesticides (two jars for each method).
  - XTwo 40 Ml glass VOA vials (Teflon septa), Iced to 4°C. Fill completely. No head space needed.
  - X Two 16-ounce wide mouth glass jars nearly full (Teflon-lined caps) one for metals and one for cyanide. (Preserved as for low level. See Section 4.2.2 C 3(b).

### (2) Paperwork/Labels.

XPaperwork requirements are the same as those listed in Section 4.2.2 C 3(b) for low concentration samples.

(3) <u>Packaging and Shipping</u>

### Method:

- 1. Sample jar lids will be secured with strapping tape or evidence tape. At the same time, string from USEPA numbered tag will be secured around lid.
- 2. Mark volume level of bottle with grease pencil.
- 3. Position jar in Ziploc bag so that tags may be read.
- 4. Place about 1/2 inch of cushioning material in the bottom of metal can.
- 5. Place jar in can and fill remaining volume of can with cushioning material.

- 6. Close the can using three clips to secure lid.
- 7. Write sample number on can lid. Indicate "This Side Up" by drawing an arrow and place "Flammable Liquid N.O.S." label on can. Personnel who ship samples must be sure to comply with DOT shipping regulations and not knowingly <u>over-classify</u> a sample prior to shipment. If the person shipping a sample <u>knows</u> that the sample is not "Flammable Liquid" (i.e., a water phase sample or a soil sample), he should not classify it as "Flammable Liquid."
- 8. Place about 1 inch of packing material in bottom of cooler.
- 9. Place cans in cooler and fill remaining volume of cooler with packing material. Add ice bags if required.
- 10. Put paperwork in plastic bags and tape with masking tape to inside lid of cooler.
- 11. Tape drain shut.
- 12. After acceptance by shipper, tape cooler completely around with strapping tape at two locations. Secure lid by taping. Do not cover any labels.
- 13. Place lab address on top of cooler.

\*\* Note: Write "Flammable Liquid N.O.S." on side of cooler if this is not marked on the margin of your DOT label.

- 14. For all medium and high concentration shipments, complete shipper's hazardous material certification form.
- 15. Put "This Side Up" labels on all four sides, "Flammable Liquid N.O.S." and "Danger-Peligro" on all sides.

\*\* Note:"Danger-Peligro" labels should be used only when net quantity of samples in cooler exceeds 1 quart (32 ounces) for liquids or 25 pounds for solids. In other words, for our purposes "Danger-Peligro" labels will never be used for Flammable Solids N.O.S.

- 16. Affix number custody seals on front right and back left of cooler. Cover seals with wide, clear tape.
- b. Soils/Sediments/Solids (Organics and Inorganic).
- (1). Bottles and Preservatives Requirements.

XFor analysis of volatile, two 40 Ml VOA vials or two 125 Ml jars with Teflon septa are used. These should be completely filled and iced to 4  $^{\circ}$ C.

XTwo 8-ounce wide mouth glass jars, 3/4 full (Teflon-lined caps), no preservative; two jars for organic (non-VOA) and two jars for inorganic.

- (2).<u>Paperwork/Labels.</u> See previous examples. Paperwork requirements are the same as those listed in Section 4.2.2. C 3(c) for low concentration samples.
- (3).<u>Packaging and Shipping.</u> Packaging and shipping requirements are listed in Section 4.2.2. C 3(c) for medium concentration water/liquids above, substituting "Flammable Liquid N.O.S." with "Flammable Solid N.O.S."
- (4).<u>High Concentration Samples (Hazardous: Determined Not to be D.O.T.-Defined Poison A.).</u> High concentration samples include those from drums, tanks, surface impoundments, direct discharges, and spills, where there is little or no evidence of environmental dilution. High concentration (or high hazard) samples are suspected to contain greater than 15% concentration of any individual chemical constituent.
- c. Liquids (Organics and Inorganic).
- (1) <u>Bottle and Preservative Requirements.</u> One 8-ounce wide mouth glass jar filled 1/2 to 3/4 full (Teflon-lined cap). No preservative.
- (2) Paperwork/Labels.
  - (a). Paperwork requirements are the same as those listed in Section 4.2.2 C 3(b) above.
  - (b). Shipper may require special forms to be completed before shipment of high hazard concentration samples.
- (3) <u>Packaging and Shipping</u>. Packaging and shipping requirements are the same as those in Section 4.2.2. C 3(c) above for medium concentration water/liquids.
- d. Soils/Sediments/Solids (Organics and Inorganic).
- (1) <u>Bottle and Preservative Requirements.</u> One 8-ounce wide-mouth glass jar filled 1/2 to 3/4 full (Teflon- lined cap). No preservative.
- (2) <u>Paperwork/Labels.</u> Paperwork requirements are the same as those listed in Section 4.2.2 C 3(b) above.
- (3) <u>Packaging and Shipping.</u> Packaging and shipping requirements are the same as those listed in Section 4.2.2. C 3(c) for medium concentration water/liquids, substituting "Flammable Liquid N.O.S." with "Flammable Solid N.O.S."
  - 1. B/N/A = Base/Neutral/Acid extractables; TRPH = Total Recoverable Petroleum Hydrocarbons.

- 2. All containers must have Teflon-lined seals (Teflon-lined septa for VOA vials). G = Glass; P = High density polyethylene.
- 3. Sample preservation will be done in the field immediately upon sample collection. If water samples are filtered in the field, differential pressure methods using 45 micron filters will be used, and preservative added after filtration VOA samples should never be filtered.
- 4. When only one holding time is given, it implies total holding time from sampling until analysis.
- 5. Three bottles are required on at least 5-10% (but at least one) sample so that laboratory can perform all method QC checks for SW-856 method.
- 6. Total Recoverable Metals for water samples. Holding time for Hg is 28 days in glass; for Cr(VI) is 24 hours.
- 7. C1<sup>-</sup>, Br<sup>-</sup>, F<sup>-</sup>, NO<sub>3-</sub>, NO<sub>2-</sub>, PO<sub>43-</sub>, SO<sub>42</sub>; 1 L for each method; orthophosphate requires filtration. Holding time for extraction is 48 hours for NO<sub>2-</sub>, NO<sub>3-</sub>, and PO<sub>4</sub><sup>-</sup> if not preserved with H<sub>2</sub>SO<sub>4</sub> to pH < 2.
- 8. Samples with residual chlorine present will dechlorinated with sodium thiosulfate as specified in SW-846 (Third edition).
- 9. Holding times for medium concentration samples are the same as those specified for low concentration samples.