Additional Interim Action Addendum #3 Remedial Excavation Report

Coleman Oil Company Facility
3 East Chehalis Street
Wenatchee, Washington

Prepared for:
Coleman Oil Company
335 Mill Road
Lewiston, Idaho 83501

July 25, 2019

Prepared by:

HydroCon, LLC

314 West 15th Street, Suite 300, Vancouver, Washington 98660
p: (360) 703-6079
www.hydroconllc.net

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3 East Chehalis Street
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Prepared for:
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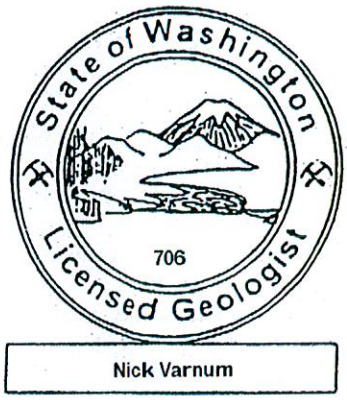
HydroCon Project No: 2017-074

Prepared by:

Nick Varnum. LHG
Senior Geologist



Reviewed by:

Craig Hultgren, LHG
Principal Geologist

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Acronyms

AIA	Additional Interim Action
BTEX	benzene, toluene, ethylbenzene, and total xylenes
Coleman Oil	Coleman Oil Company
CUL	cleanup level
CVB	Control Valve Building
DRPH	diesel range petroleum hydrocarbons
Ecology	Washington Department of Ecology
EPA	Environmental Protection Agency
GRPH	gasoline range petroleum hydrocarbons
HydroCon	HydroCon Environmental LLC
mg/Kg	milligrams per Kilogram
MTCA	Model Toxics Control Act
ORPH	oil range petroleum hydrocarbons
PID	photoionization detector
R99	R99 Renewable Diesel
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SRI	Supplemental Remedial Investigation

1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this Additional Interim Action (AIA) report on behalf of Coleman Oil Company (Coleman Oil) to document a remedial excavation of petroleum contaminated soil (PCS), test pit sampling, and installation of replacement well MW13R at the Coleman Oil Facility.

This Work Plan has been prepared to supplement the requirements of Exhibit B – Scope of Work and Schedule of Agreed Order No. DE 15389 entered into by Coleman Oil Company, LLC; Coleman, Services IV, LLC; and the Washington State Department of Ecology (Ecology) with an effective date of September 18, 2017 (Agreed Order). The Agreed Order is a continuation of previous and ongoing significant oil spill response activities and removal actions conducted under the Administrative Order on Consent for Removal Activities issued by the U. S. Environmental Protection Agency (EPA) on May 5, 2017 (EPA Docket No. CWA-10-2017-0114).

The site, as defined under the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), Chapter 173-340 of the Washington Administrative Code (WAC §173-340-200), comprises the portion of the Coleman Oil Property and adjacent properties where hazardous substances have come to be located in soil, groundwater, and surface water at concentrations exceeding applicable cleanup levels (herein referred to as the Site) as a result of releases at the Coleman Oil Property.

Supporting documentation is found in the attachments to the SRI Work Plan and Sampling and Analysis Plan (SAP) and includes Standard Operating Procedures (SOPs) and field forms that will be used during the investigation (HydroCon 2018a).

2.0 BACKGROUND INFORMATION

The following section provides a summary of the Site location and description, geologic setting, historical land use, environmental history, and contaminants and media of concern at the Site. Most of the information provided below is summarized from the Supplemental Remedial Investigation (SRI) Work Plan (HydroCon 2018a) and the SRI Report (HydroCon 2018b).

2.1 Site Description

The Site is located at 3 Chehalis Street in Wenatchee, Washington. The Site is located nearly adjacent to the west side of the Columbia River. Land use near the Site is primarily industrial (Figure 1).

2.2 Site History

This section provides a brief Site history, focusing on the discovery of a release of diesel in March 2017. Additional site history is documented in the SRI Report.

The Site is currently operated by Coleman Oil and has been in operation as a bulk fuel facility since 1921 until mid-2017. Coleman Services IV, LLC purchased the property in January 2007.

A petroleum sheen was discovered on the west side of the Columbia River approximately 300 feet north of the Site on March 17, 2017. Subsequent pipeline tightness testing revealed that two underground pipelines could not hold pressure and review of Coleman Oil inventory records indicated that the release was most likely from the R99 fuel line.

Subsequent testing included the installation of groundwater monitoring wells, soil borings, and test pits in different phases between March and September 2017 by Farallon (2017) and March and April 2018 by HydroCon (2018b) (Figure 2). This testing indicated soil and groundwater had been impacted at concentrations above MTCA Method A cleanup levels, including impacts to soil and groundwater, and sediment near the location of the sheen.

Additional testing was conducted in the former Tank Farm B and Control Valve Building (CVB) in January 2019 (HydroCon 2019). Elevated concentrations of GRPH, DRPH, ORPH, and BTEX not related to the Renewable R99 Diesel release were detected in soil and groundwater samples collected in the Uplands area near monitoring well MW13 during subsurface investigations and quarterly groundwater monitoring at the site. Six exploratory test pits and ten temporary soil borings (Figure 2) were used to evaluate soil conditions in the area.

Based on the results of the 2019 investigation and previous investigations, the extent of soil contamination in the unsaturated (vadose) zone in the Uplands area from sources other than the 2017 R99 release appears to be concentrated under the former CVB and Tank Farm B areas (Figure 3).

HydroCon prepared a Work Plan to direct the remedial excavation (HydroCon 2019b). Since monitoring well MW13 was located within the footprint of this soil contamination, it was necessary to abandon the well. A replacement well was installed after remedial action was completed. The work plan was approved by Ecology on May 15, 2019 (Ecology 2019).

2.3 Geologic & Hydrogeologic Setting

The Site is located in the Wenatchee Valley approximately 100 feet west south-west of the Columbia River at an elevation of approximately 660 feet above mean sea level (Figure 1). The topography of the Site slopes very gently to the north north-west parallel to the Columbia River.

The soils beneath the Site are consistent with ice-age alluvial deposits underlain by the Chumstick Formation bedrock. The alluvium consists primarily of silt and silty sand, with layers of clay, sand, gravel and cobbles. The thickness of the alluvial deposits ranges from 6 to 31.5 feet. Boring logs and drilling observations indicate that a more massive, well cemented sandstone layer is beneath thin layers of mudstone, shale and sandstone and the sandstone appears to be acting as an aquitard in this area. The groundwater level is within a few feet of the top of the Chumstick Formation and always above the sandstone layer. An exception is at MW22 where the groundwater is approximately 15 feet above the top of the Chumstick formation. This area has been disturbed by previous excavation and has been backfilled with construction and other debris.

Groundwater flow is generally parallel with the top of the Chumstick formation. The groundwater flow direction and the dip of the sandstone surface are both to the north, northeast except in the region between the Site and the Columbia River where both are more to the east. The location of the observed seeps 300 feet north of the site is consistent with the observed groundwater flow direction and gradient.

3.0 PURPOSE AND SCOPE

The purpose of the remedial excavation was to remove the majority of the source of soil contamination in the unsaturated (vadose) zone that is affecting groundwater in this area and areas downgradient of the property. Soil contamination downgradient of this area has been demonstrated to be limited to the soils within the saturated zone at depths of 8 feet or greater. Removal of contaminated vadose zone soil is expected to enhance and accelerate natural attenuation in downgradient areas where excavation is not cost effective and/or accessible (e.g., the PUD facility located north of the property).

Due to the lack of confirmation sampling during the 2017 remedial excavation, Ecology requested that localized test pitting and soil sampling also be conducted to demonstrate the sufficiency of the initial excavation to remove vadose zone soil with contamination above cleanup levels in this area of the site.

4.0 FIELD WORK

A discussion of each task is provided below.

4.1 Health and Safety Plan

HydroCon updated the site specific Health and Safety Plan to guide field safety protocols, in accordance with rules established by the Occupational Safety and Health Administration (OSHA) and Washington Industrial Safety and Health Act (WISHA).

4.2 Utility Locates

HydroCon contacted the Washington 1-call utility locates hotline to request a public utility locates. White paint marks were placed on the ground to delineate the area that needs to be surveyed, as is required by law, prior to calling in the locate request.

4.3 Well Abandonment - MW13

Monitoring well MW13 was abandoned on May 21, 2019 by grouting in-place and then removal by excavation in accordance with Chapter 173-160 WAC. Budinger & Associates performed the work. This well was re-installed following completion of the remedial excavation (see Section 3.7). A copy of the abandonment log is included in Appendix A.

4.4 Remedial Excavation

On May 21-23, 2019, the remedial excavation was performed using a tracked excavator operated by Coleman Oil. The excavation took place in the area near the former CVB and the former Tank Farm B area where petroleum contaminated soil (PCS) was present above one of more of the respective MTCA Method A cleanup levels. Large boulders were removed and segregated into stockpiles on site. The PCS was removed by the excavator and loaded directly into trucks. The trucks transported the PCS to Greater Wenatchee Regional Landfill in East Wenatchee, Washington for disposal. A total of 875 tons of soil were disposed at the landfill. A copy of the disposal documentation is included in Appendix B.

Field screening procedures were utilized during the excavation process. The excavation was advanced to a total depth of approximately 12 to 13 feet bgs (at or near the bedrock interface). The excavation was advanced laterally until field screening results indicated the majority of PCS had been removed or that no further excavation could be done due to access issues (i.e., the property line with Burlington Northern railroad to the west and Tank Farm A to the south).

The remedial excavation was initially scoped to be advanced down to the water table (approximately 8 feet bgs). Due to the lack of significant groundwater recharge the excavation was advanced down to the bedrock interface. Localized seeps of groundwater were observed on the sidewalls. At the conclusion of the excavation only localized ponds of water less than 6-inches deep were observed on the floor of the excavation.

With approval from Ecology, the excavation remained open until a cheaper source of backfill material could be procured for the site. During this time period groundwater slowly entered the excavation. EEC staff lowered a sump pump into the excavation. Approximately 580 gallons of water from the excavation were pumped into the site's remediation system for treatment and disposal.

4.5 Soil Sampling

At the conclusion of the excavation HydroCon collected a total of 12 samples from the sidewalls and 3 samples from the floor of the excavation. The samples were collected directly out of the bucket of the excavator using a new pair of Nitrile gloves. A portion of each sample was placed into a ziplock baggie for field screening and lithologic classification. The samples were placed into laboratory prepared glass jars including the EPA Method 5035 sampling kits for VOC analysis. The sample bottles were placed into a chilled cooler along with chain-of-custody documentation and transported to APEX Laboratory in Tigard, Oregon for analysis.

Each sample was analyzed for the following parameters:

- Gasoline range petroleum hydrocarbons (GRPH) using Northwest Method NWTPH-Gx.
- Diesel range petroleum hydrocarbons (DRPH) and oil range petroleum hydrocarbons (ORPH) using Northwest method NWTPH-Dx.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method C.

4.6 Backfill Excavation

Coleman Oil used a breaker to break up the boulders at the site for use as backfill material. Once that task was completed a total of 156.37 tons of quarry spall and 437.69 tons of road ballast obtained from Lloyd Palm Construction of Wenatchee, WA was placed in the excavation.

4.7 Installation of 4-Inch Diameter Slotted PVC Pipe in Remedial Excavation

Two sets of 4-inch diameter slotted Schedule 40 PVC piping were placed inside the excavation at a depth of approximately 5 feet bgs. An end cap was placed on the northern end of the pipe

run. Blank PVC riser pipe extends above the ground surface on the southern end of the pipe run. The blank PVC riser pipe was attached to the slotted section using an elbow. These pipes may be used in the future for soil vapor extraction (SVE) or application of an in-situ remediation product.

4.8 Exploratory Test Pits

At Ecology's request, two test pits were installed near the former loading rack and under a former pipe run where the first remedial excavation was performed in 2017 shortly after discovery of the R99 release. The purpose of the test pitting is to assess the quality of backfill soil used.

The approximate extent of the 2017 excavation and the proposed test pits are shown on Figure 2. The objective of the test pits was as follows:

- TP07 was advanced near the point of the R99 release. This test pit was advanced to confirm that the PCS at the point of release has been removed and to assess the quality of the backfill.

- TP08 was advanced under a former pipe run. This test pit was advanced to confirm that PCS has been removed and to assess the quality of the backfill.

HydroCon observed the composition of the soil and performed field screening to assess if petroleum hydrocarbon contamination was present. The soil in both tests consisted of a mixture of sand and gravel fill. There was no indication of any staining, hydrocarbon odor, or a PID response in any of the soil generated from either test pit. A soil sample was collected at 6 feet bgs at each test pit. The samples were placed in a chilled cooler along with the chain-of-custody documentation and transported to the laboratory. Results of the sampling are provided in Section 4.2.

4.9 Reinstallation of MW13

Monitoring Well MW13 was reinstalled near its original location (see Figure 2). The original well was constructed to a depth of 20 feet. The replacement well was installed to a depth of 19 feet to avoid extending the well into the underlying mudstone. The well was constructed with a 14-foot length of 4-inch diameter 0.010-inch slotted PVC well screen. The well construction details are documented on the boring log in Appendix C and on Table 1. During installation, the well was surged during sand pack installation using a clean surge block. The drillers measured the drop in sand pack level during surging and poured additional sand in the annulus to bring the level up to the desired depth interval. After installation the well was developed further by surging and pumping techniques. A clean stainless steel bailer was used

to surge the well and a submersible pump attached to a new length of HDPE tubing was used to pump turbid water from the well. This process was repeated until no further improvement in water clarity was observed. Well development details were documented on a Well Development field form (Appendix C).

4.10 Surveying

Elandsen Inc. was contracted to survey the location and elevation of the ground surface and top of the PVC casing at the scribed reference mark for MW13R. The survey information for MW13R is included on the boring log and Table 1. The surveyor also surveyed the location of the corners of the remedial excavation. This information was provided to our graphics department to illustrate the location of the remedial excavation on the figures.

5.0 ANALYTICAL RESULTS

Soil analytical results are reported as milligrams per kilogram (mg/kg), which are equivalent to parts per million (ppm). The results are summarized on Table 2 and displayed on Figure 4, and compared to MTCA Method A cleanup levels (CULs). The laboratory report is included in Appendix E.

5.1 Remedial Excavation Sample Results

The results of the soil samples are discussed for each area of the excavation including the sidewalls and floor of the excavation.

North Sidewall – Three soil samples (NE-Corner01-08, NW-Corner01-08, and NSW01-08) were collected from the north sidewall. GRPH (up to 127 mg/kg), DRPH (up to 282 mg/kg), ORPH (up to 346 mg/kg), toluene (up to 0.102 mg/kg), ethylbenzene (0.177 mg/kg), and total xylenes (up to 2.44 mg/kg) were detected in one or more of the samples. The concentration of GRPH in the NW-Corner 01-08 sample exceeded the CUL.

South Sidewall – Three soil samples (SE Corner01-08, SW Corner01-08, and SSW01-08) were collected from the south sidewall. GRPH (up to 29 mg/kg), ORPH (up to 12,900 mg/kg), ethylbenzene (0.0455 mg/kg) and total xylenes (up to 0.587 mg/kg) were detected in one or more of the samples. The concentration of ORPH in the SE Corner 01-08 sample exceeded the CUL.

East Sidewall – Three soil samples (ESW01-08, ESW02-08, and ESW03-08) were collected from the east sidewall. GRPH (up to 5.96 mg/kg), DRPH (up to 171 mg/kg) and ORPH (up to 693 mg/kg) were detected in one or more of the samples. None of the samples exceeded their respective CULs.

West Sidewall – Three soil samples (WSW01-08, WSW02-08, and WSW03-08) were collected from the west sidewall. GRPH (up to 3,010 mg/kg), DRPH (up to 3,210 mg/kg), ORPH (up to 446 mg/kg), benzene (up to 0.0704 mg/kg), toluene (up to 0.955 mg/kg), ethylbenzene (9.80 mg/kg) and total xylenes (up to 93.1 mg/kg) were detected in one or more of the samples. The concentrations of GRPH exceeded the CUL are all three locations and the DRPH CUL was exceeded at WSW02-08 and WSW03-08. The concentration of ethylbenzene and total xylenes exceeded their respective CULs in samples WSW01-08 and WSW02-08.

Floor Samples - Three soil samples (B01-12, B02-12, and B03-13) were collected from the floor. GRPH (up to 2,780 mg/kg), DRPH (up to 10,100 mg/kg), benzene (up to 3.16 mg/kg),

toluene (up to 0.179 mg/kg), ethylbenzene (up to 1.46 mg/kg) and total xylenes (up to 34.6 mg/kg) were detected in one or more of the samples. The concentration of GRPH, DRPH and total xylenes exceeded their respective CULs in all 3 samples. The concentration of benzene in the B02-12 and B03-13 samples exceed the CUL and the total xylenes CUL was exceed in all three samples.

5.2 Exploratory Test Pits

A summary of the soil analytical results for the samples collected from each exploratory test pit is provided below.

TP07-06 – There was no detection of any constituent above their respective Method Reporting Limit (MRL) in the sample.

TP08-06 – There was no detection of any constituent above their respective MRL in the sample.

These samples confirm that the backfill placed in 2017 was clean.

5.3 Data Quality Review

Laboratory testing of soil resulted in two laboratory reports including Apex Labs Work Orders A9E0803 and A9E0686. The data review reports are included in Appendix F. The review of the analytical results included the following:

- Holding Times & Sample Receipt
- Surrogate Compounds
- Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Associated Laboratory Duplicate
- Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
- Method Blank
- Field Duplicates
- Target Analyte List
- Reporting Limits (MDL and MRL)
- Reported Results

Data were qualified due to matrix interference, compound identification issues, and/or LCS/CCV recoveries. No data were rejected and completeness was 100 percent. All results are usable as intended. The data review report identifies all data qualifiers and the reasons

for qualification. Aside from the data quality issues identified above, the data quality review identified no concerns with respect of the quality of usability of the data presented herein.

6.0 DISCUSSION

The purpose of the remedial excavation was to remove the majority of the source of soil contamination in the vadose zone that is affecting groundwater in this area and areas downgradient of the property. The remedial excavation was successful in meeting this objective. Soil field screening and analytical results indicate that residual contamination remains in the sidewalls and bottom of the excavation in the saturated zone, particularly in the west side wall (adjacent to the railway property), south side wall (near Tank Farm A), and excavation bottom, which was expected. HydroCon placed two sets of 4-inch diameter slotted PVC pipe in the remedial excavation for potential future use to supplement remedial action in this area of the site.

Results of the test pit excavations and sampling demonstrated that the backfill of the 2017 remedial excavation effectively removed contaminated vadose zone soil and was backfilled with clean imported soil.

7.0 QUALIFICATIONS

HydroCon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. HydroCon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that HydroCon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this monitoring. Subsurface conditions may vary from those encountered at specific sampling locations or during other surveys, tests, assessments, investigations, or exploratory services; the data, interpretations and findings are based solely upon data obtained at the time and within the scope of these services.

This report is intended for the sole use of **Coleman Oil Company** to meet the requirements of Exhibit B – Scope of Work and Schedule of the Agreed Order. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The conclusions presented in this report are, in part, based upon subsurface sampling performed at selected locations and depths. There may be conditions between borings or samples that differ significantly from those presented in this report and which cannot be predicted by this study.

8.0 REFERENCES

HydroCon, LLC. 2018a. *Supplemental Remedial Investigation Work Plan*. Coleman Oil R99 Renewable Diesel Spill, Wenatchee, Washington. Prepared for Coleman Oil Company, LLC. March 15.

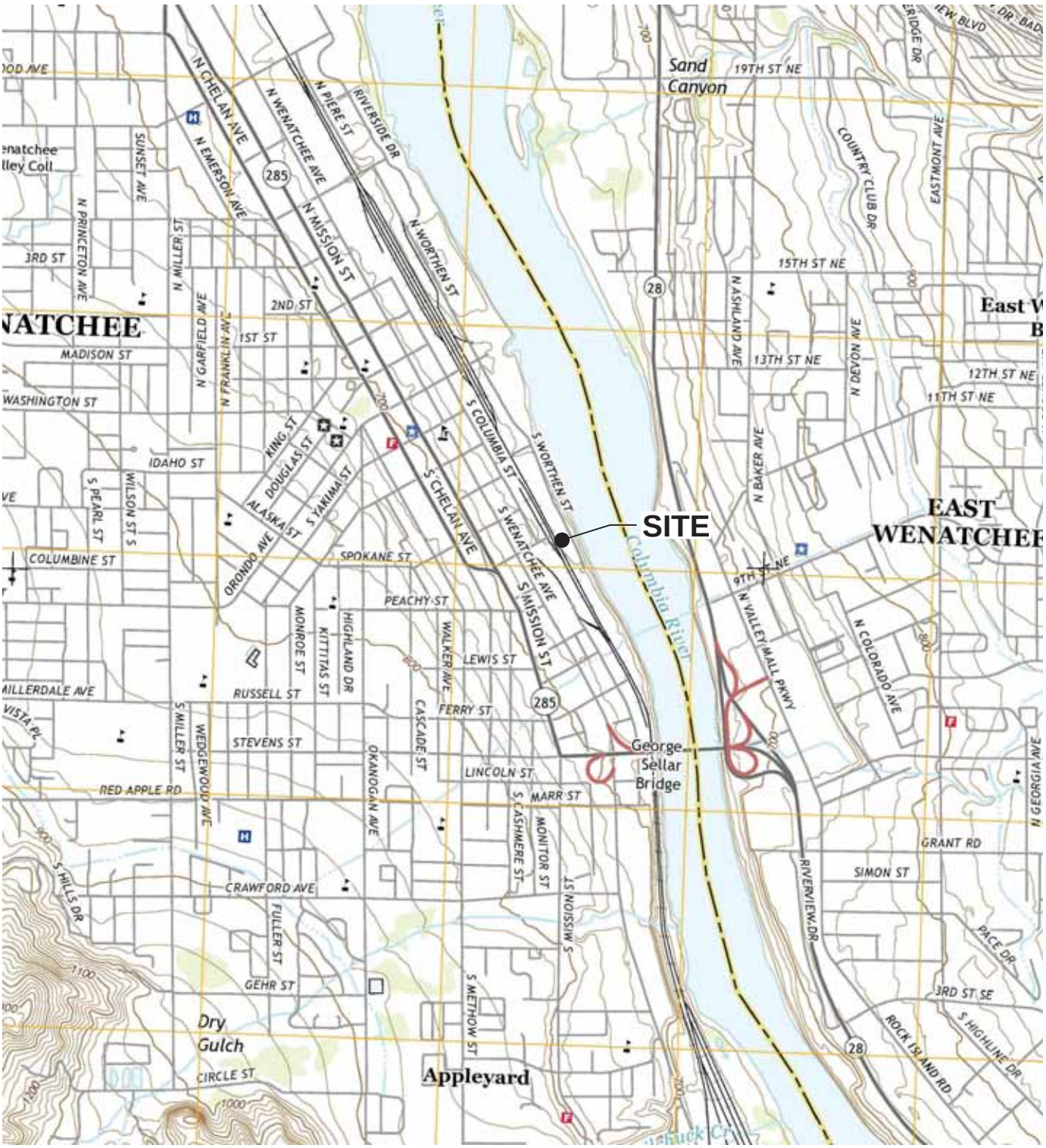
———. 2018b. *Supplemental Remedial Investigation Report. Coleman Oil R99 Renewable Diesel Spill, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. August 8, Revised October 9.

———. 2019a. SRI Addendum – *Upland Soil Characterization Report*. Prepared for Coleman Oil Company, LLC. March 6.

———. 2019b. *Additional Interim Action #3 – Remedial Excavation Work Plan*. Prepared for Coleman Oil Company, LLC. May 14.

Ecology. 2019. Email – Approval of the *Additional Interim Action #3 Remedial Excavation Work Plan*. May 15.

FIGURES



NOTE(S):

USGS, WENATCHEE QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

0 2000 4000

SCALE IN FEET
1" = 2000'

N
W E
S

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

DATE: 2-20-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 1
SITE LOCATION MAP

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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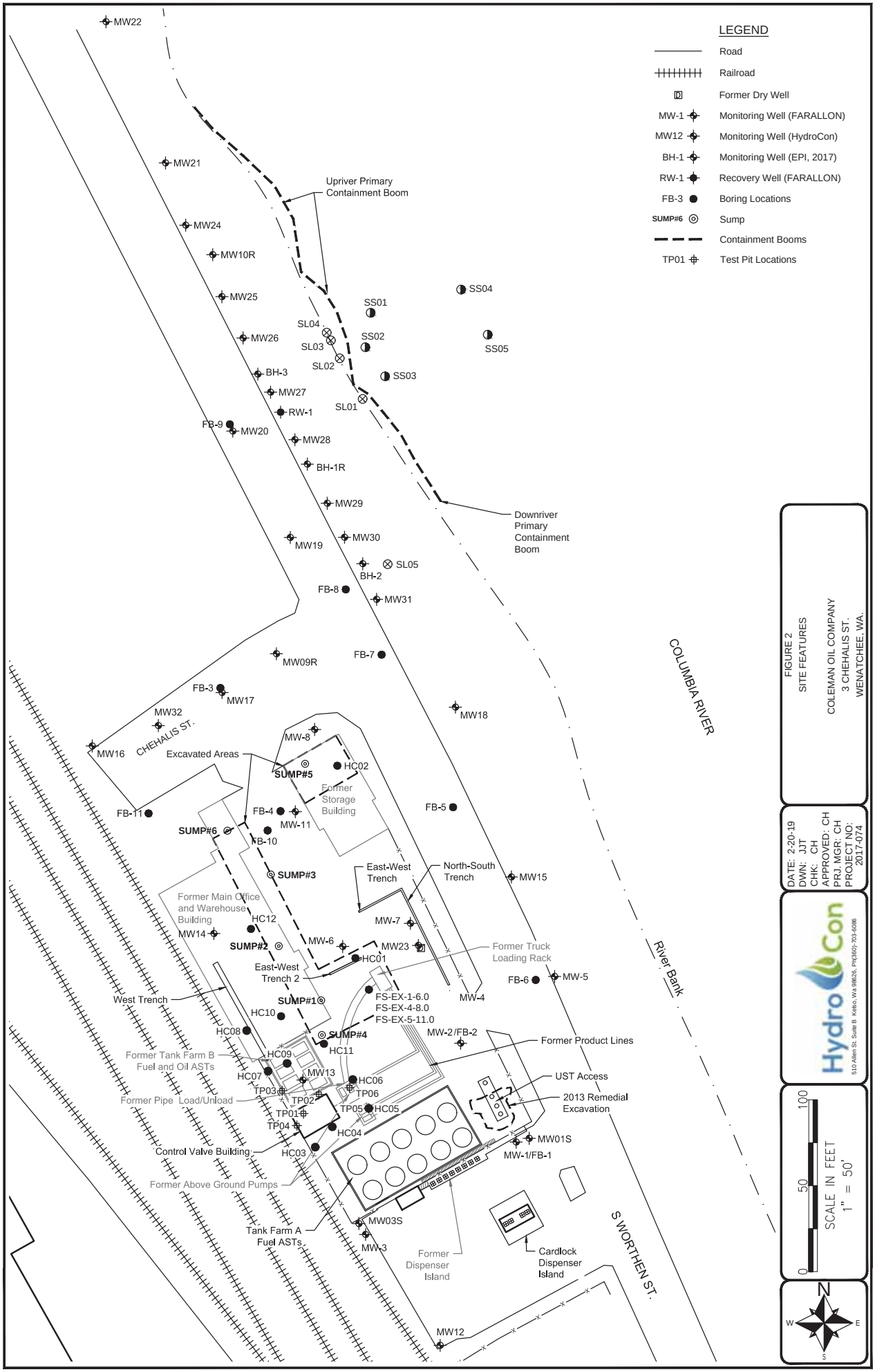

FIGURE 2
SITE FEATURES
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 2-20-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, PH(360)-703-6086

SCALE IN FEET
1" = 50'
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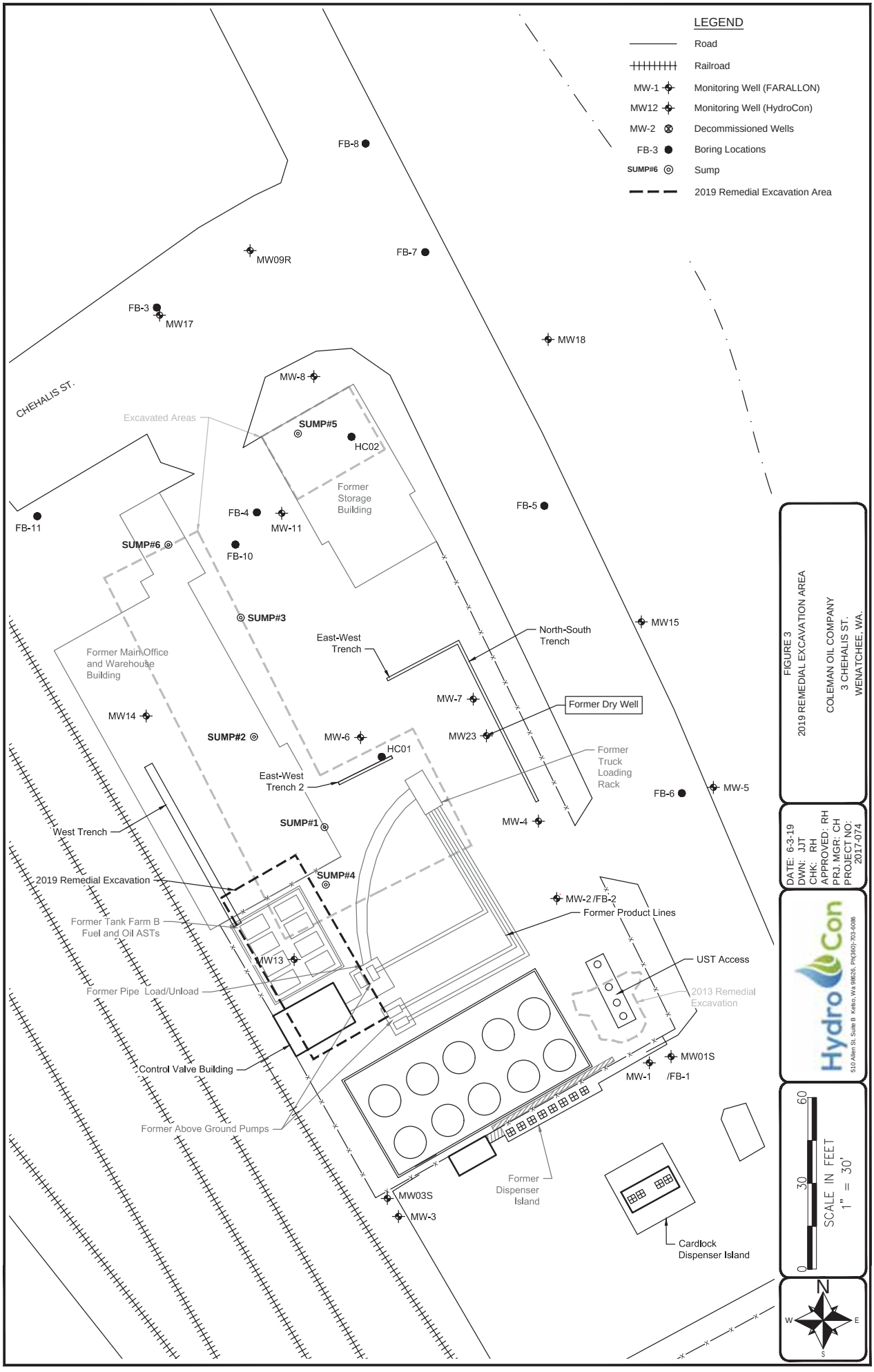


C:\Users\Jeth\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\April 2019\2017-074_BM-052119.dwg

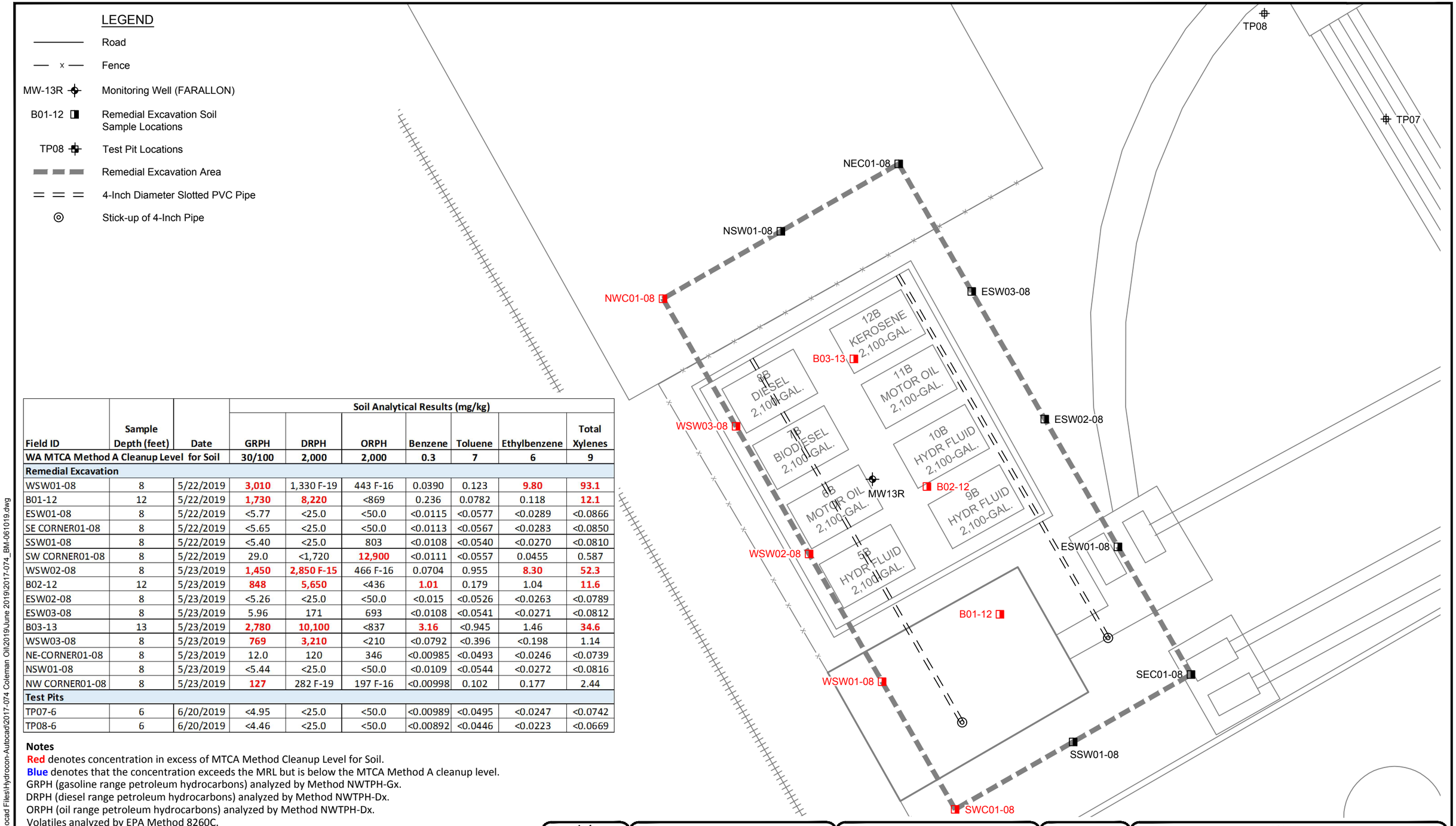
LEGEND

- Road
- Fence
- MW-13R — Monitoring Well (FARALLON)
- B01-12 — Remedial Excavation Soil Sample Locations
- TP08 — Test Pit Locations
- Remedial Excavation Area
- 4-Inch Diameter Slotted PVC Pipe
- Stick-up of 4-Inch Pipe

Field ID	Sample Depth (feet)	Date	Soil Analytical Results (mg/kg) GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
WA MTCA Method A Cleanup Level for Soil			**30/100**	**2,000**	**2,000**	**0.3**	**7**	**6**	**9**
Remedial Excavation									
WSW01-08	8	5/22/2019	**3,010**	1,330 F-19	443 F-16	0.0390	0.123	**9.80**	**93.1**
B01-12	12	5/22/2019	**1,730**	**8,220**	<869	0.236	0.0782	0.118	**12.1**
ESW01-08	8	5/22/2019	<5.77	<25.0	<50.0	<0.0115	<0.0577	<0.0289	<0.0866
SE CORNER01-08	8	5/22/2019	<5.65	<25.0	<50.0	<0.0113	<0.0567	<0.0283	<0.0850
SSW01-08	8	5/22/2019	<5.40	<25.0	803	<0.0108	<0.0540	<0.0270	<0.0810
SW CORNER01-08	8	5/22/2019	29.0	<1,720	**12,900**	<0.0111	<0.0557	0.0455	0.587
WSW02-08	8	5/23/2019	**1,450**	**2,850 F-15**	466 F-16	0.0704	0.955	**8.30**	**52.3**
B02-12	12	5/23/2019	**848**	**5,650**	<436	**1.01**	0.179	1.04	**11.6**
ESW02-08	8	5/23/2019	<5.26	<25.0	<50.0	<0.015	<0.0526	<0.0263	<0.0789
ESW03-08	8	5/23/2019	5.96	171	693	<0.0108	<0.0541	<0.0271	<0.0812
B03-13	13	5/23/2019	**2,780**	**10,100**	<837	**3.16**	<0.945	1.46	**34.6**
WSW03-08	8	5/23/2019	**769**	**3,210**	<210	<0.0792	<0.396	<0.198	1.14
NE-CORNER01-08	8	5/23/2019	12.0	120	346	<0.00985	<0.0493	<0.0246	<0.0739
NSW01-08	8	5/23/2019	<5.44	<25.0	<50.0	<0.0109	<0.0544	<0.0272	<0.0816
NW CORNER01-08	8	5/23/2019	**127**	282 F-19	197 F-16	<0.00998	0.102	0.177	2.44
Test Pits									
TP07-6	6	6/20/2019	<4.95	<25.0	<50.0	<0.00989	<0.0495	<0.0247	<0.0742
TP08-6	6	6/20/2019	<4.46	<25.0	<50.0	<0.00892	<0.0446	<0.0223	<0.0669

Notes

Red denotes concentration in excess of MTCA Method Cleanup Level for Soil.
Blue denotes that the concentration exceeds the MRL but is below the MTCA Method A cleanup level.
GRPH (gasoline range petroleum hydrocarbons) analyzed by Method NWTPH-Gx.
DRPH (diesel range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.
ORPH (oil range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.
Volatiles analyzed by EPA Method 8260C.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
< = less than method reporting limit shown
--- = not analyzed
F-15 Results for diesel are due to overlap from the reported oil result.
F-16 Results for oil are due to overlap from the reported diesel result.
F-19 Results are estimated due to the presence of multiple fuel products.



N W E S

0 10 20
SCALE IN FEET
1" = 10'

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

DATE: 7-19-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4
REMEDIAL EXCAVATION AND TEST SOIL SAMPLE RESULTS
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\June 2019\2017-074_BM-061019.dwg

TABLES

Table 1
Well Construction Details
Coleman Oil
Wenatchee, Washington

Well ID	Date Installed	Installed By	Drilling Method	Total Boring Depth (feet bgs)	Total Well Depth (feet bgs)	Well Diameter (inch)	Well Construction Material	Screen Slot Size (inch)	Length of Screen (feet)	Length of Bottom Cap (feet)	Screened Interval (feet bgs)	Well Casing Elevation (feet[1])
MW-1	7/7/2010	Farallon	Air Rotary	35.50	35.00	2	PVC	0.01	15	-	20-35	658.01
MW01S	3/4/2018	HydroCon	Sonic	20.00	19.99	4	PVC	0.01	15	0.23	5.37 - 20.37	657.54
MW-2	7/8/2010	Farallon	Air Rotary	40.00	40.00	2	PVC	0.01	15	-	25-40	657.76
MW-3	9/7/2010	Farallon	Air Rotary	35.30	35.00	2	PVC	0.01	10	-	25-35	658.26
MW03S	4/3/2018	HydroCon	Sonic	20.00	19.30	4	PVC	0.01	15	0.23	4.43 - 19.43	658.17
MW-4	9/8/2010	Farallon	Air Rotary	40.10	37.00	2	PVC	0.01	10	-	27-37	657.48
MW-5	9/9/2010	Farallon	Air Rotary	45.40	45.00	2	PVC	0.01	15	-	30-45	656.00
MW-6	4/12/2017	Farallon	Air Rotary	18.40	18.00	4	PVC	0.02	10	-	8-18	657.70
MW-7	4/11/2017	Farallon	Air Rotary	20.10	20.00	4	PVC	0.02	10	-	10-20	657.52
MW-8	4/11/2017	Farallon	Air Rotary	25.20	25.00	4	PVC	0.02	10	-	15-25	656.20
MW-9	4/12/2017	Farallon	Air Rotary	24.50	24.00	4	PVC	0.02	10	-	14-24	655.29
MW09R	8/15/2018	HydroCon	Sonic	35.00	32.60	4	PVC	0.01	25	0.45	8.59-33.59	653.55
MW-10	4/14/2017	Farallon	Air Rotary	30.20	30.00	2	PVC	0.02	16	-	14-30	645.80
MW10R	8/16/2018	HydroCon	Sonic	35.00	33.59	4	PVC	0.01	20	0.45	14.64-34.64	644.30
MW-11	4/14/2017	Farallon	Air Rotary	22.30	22.00	4	PVC	0.02	10	-	12-22	658.00
MW12	4/2/2018	HydroCon	Sonic	20.00	19.52	4	PVC	0.01	15	0.23	4.63 - 19.63	658.27
MW13	3/29/2018	HydroCon	Sonic	50.00	19.80	4	PVC	0.01	15	0.23	4.91 - 19.91	657.04
MW13R	7/2/2019	HydroCon	Sonic	19.00	18.46	4	PVC	0.01	14	0.23	4.23-18.23	TBD
MW14	3/30/2018	HydroCon	Sonic	35.00	20.02	4	PVC	0.01	15	0.23	5.23 - 20.23	657.15
MW15	4/12/2018	HydroCon	Sonic	35.10	35.10	4	PVC	0.01	25	0.23	10.33 - 35.33	654.99
MW16	4/5/2018	HydroCon	Sonic	30.00	29.15	4	PVC	0.01	20	0.23	9.28 - 29.28	656.93
MW17	4/4/2018	HydroCon	Sonic	35.00	29.41	4	PVC	0.01	20	0.23	9.52 - 29.52	655.55
MW18	4/11/2018	HydroCon	Sonic	35.00	34.65	4	PVC	0.01	20	0.23	15.86 - 35.86	654.51
MW19	4/5/2018	HydroCon	Sonic	35.00	31.48	4	PVC	0.01	20	0.23	11.66 - 31.66	653.31
MW20	4/10/2018	HydroCon	Sonic	30.00	29.50	4	PVC	0.01	20	0.23	9.79 - 29.79	650.85
MW21	4/9/2018	HydroCon	Sonic	35.00	32.10	4	PVC	0.01	20	0.23	12.30 - 32.30	643.88
MW22	4/13/2018	HydroCon	Sonic	40.00	39.10	4	PVC	0.01	25	0.23	9.19 - 34.19	641.85
MW23	3/29/2018	HydroCon	Sonic	25.00	22.04	4	PVC	0.01	15	0.23	7.13 - 22.13	656.91
MW24	8/6/2018	HydroCon	Sonic	35.00	34.25	4	PVC	0.01	20	0.45	14.17-34.17	644.38
MW25	8/7/2018	HydroCon	Sonic	35.00	32.96	4	PVC	0.01	20	0.45	12.81-32.81	645.57
MW26	8/8/2018	HydroCon	Sonic	35.00	32.52	4	PVC	0.01	20	0.45	13.54-33.54	646.65
MW27	8/9/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.56-38.56	649.00
MW28	8/10/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.62-38.62	650.64
MW29	8/13/2018	HydroCon	Sonic	40.00	39.11	4	PVC	0.01	25	0.45	14.05-39.05	652.34
MW30	8/14/2018	HydroCon	Sonic	40.00	39.79	4	PVC	0.01	25	0.45	14.67-39.67	652.83
MW31	8/15/2018	HydroCon	Sonic	40.00	39.28	4	PVC	0.01	25	0.45	14.11-39.11	653.97
MW32	8/17/2018	HydroCon	Sonic	35.00	34.02	4	PVC	0.01	25	0.45	8.95-33.95	655.83
BH01R	3/25/2017	HydroCon	Sonic	40.00	39.97	4	PVC	0.01	25	0.45	14.52-39.52	651.03
BH-2	3/25/2017	EPI	Air Rotary	35.00	35.00	2	PVC	0.01	15	-	20-35	653.77
BH-3	3/26/2017	EPI	Air Rotary	30.00	30.00	2	PVC	0.01	15	-	15-30	648.76
RW-1	4/10/2017	Farallon	Air Rotary	30.00	30.00	3	PVC	0.02	15	-	15-30	650.42

NOTES:

feet[1] = Elevation is relative to NGVD88

bgs = below ground surface

PVC = polyvinyl chloride

Table 2
Remedial Excavation and Test Pit Soil Sample Analytical Results - Fuels and BTEX
Coleman Oil Site
Wenatchee, Washington

			Fuels			BTEX			
			GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WA MTCA Method A Cleanup Level for Soil			**30/100**	**2,000**	**2,000**	**0.3**	**7**	**6**	**9**
Benzene (Non Detect)			**100**						
Benzene (Detect)			**30**						
Field ID	**Sample Depth (feet)**	**Date**							
Remedial Excavation									
NE-CORNER01-08	8	5/23/2019	12.0	120	346	<0.00985	<0.0493	<0.0246	<0.0739
NSW01-08	8	5/23/2019	<5.44	<25.0	<50.0	<0.0109	<0.0544	<0.0272	<0.0816
NW CORNER01-08	8	5/23/2019	**127**	282 F-19	197 F-16	<0.00998	0.102	0.177	2.44
SE CORNER01-08	8	5/22/2019	<5.65	<25.0	<50.0	<0.0113	<0.0567	<0.0283	<0.0850
SSW01-08	8	5/22/2019	<5.40	<25.0	803	<0.0108	<0.0540	<0.0270	<0.0810
SW CORNER01-08	8	5/22/2019	29.0	<1,720	**12,900**	<0.0111	<0.0557	0.0455	0.587
ESW01-08	8	5/22/2019	<5.77	<25.0	<50.0	<0.0115	<0.0577	<0.0289	<0.0866
ESW02-08	8	5/23/2019	<5.26	<25.0	<50.0	<0.015	<0.0526	<0.0263	<0.0789
ESW03-08	8	5/23/2019	5.96	171	693	<0.0108	<0.0541	<0.0271	<0.0812
WSW01-08	8	5/22/2019	**3,010**	1,330 F-19	443 F-16	0.0390	0.123	**9.80**	**93.1**
WSW02-08	8	5/23/2019	**1,450**	**2,850 F-15**	466 F-16	0.0704	0.955	**8.30**	**52.3**
WSW03-08	8	5/23/2019	**769**	**3,210**	<210	<0.0792	<0.396	<0.198	1.14
B01-12	12	5/22/2019	**1,730**	**8,220**	<869	0.236	0.0782	0.118	**12.1**
B02-12	12	5/23/2019	**848**	**5,650**	<436	**1.01**	0.179	1.04	**11.6**
B03-13	13	5/23/2019	**2,780**	**10,100**	<837	**3.16**	<0.945	1.46	**34.6**
Test Pits									
TP07-6	6	6/20/2019	<4.95	<25.0	<50.0	<0.00989	<0.0495	<0.0247	<0.0742
TP08-6	6	6/20/2019	<4.46	<25.0	<50.0	<0.00892	<0.0446	<0.0223	<0.0669

Notes

Red denotes concentration in excess of MTCA Method Cleanup Level for Soil.

Blue denotes concentration above the laboratory method reporting limit (MRL) but below the MTCA Method Cleanup Level for Soil.

GRPH (gasoline range petroleum hydrocarbons) analyzed by Method NWTPH-Gx.

DRPH (diesel range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.

ORPH (oil range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.

Volatiles analyzed by EPA Method 8260C.

MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007

< = less than method reporting limit shown

--- = not analyzed

F-15 Results for diesel are due to overlap from the reported oil result.

F-16 Results for oil are due to overlap from the reported diesel result.

F-19 Results are estimated due to the presence of multiple fuel products.

APPENDIX A

WELL ABANDONMENT LOG

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
■ Decommission ⇨ Original NOI No. RE15764

Ecology Well ID Tag No. BIU609

Site Well Name MW13

Consulting Firm Hydrocon

Was a variance approved for this well/boring? ☐ Yes ■ No

If yes, what was the variance for? _____

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

■ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Hageman, Ethan

Driller/Engineer/Trainee Signature _____

License No. 2968

Company Name Budinger & Associates, Inc

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. AE54867

Type of Well:

■ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other _____
↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner Coleman Oil Company

Well Street Address Chehalis & Worthen

City Wenatchee County Chelan

Tax Parcel No. _____

Location (see instructions): WWM ☐ or EWM ■

SE ¼-¼ NE ¼, Section 10 Town 22N Range 20

Latitude (Example: 47.12345) _____

Longitude (Example: -120.12345) _____

(WGS 84 Coordinate System)

Borehole diameter 8 inches Casing diameter _____ inches

Static water level 7.5 ft below top of casing Date 3/29/18

☐ Above-ground completion with bollards ■ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 5/21/19 Completed Date 5/21/19

Construction Design	Well Data	Driller's Log
Well filled with bentonite	Riser: 4" sched 40 pvc to 4.6' Screen: 4" sched 40 pvc (0.010" slot) from 4.6' to 19.9' with end cap Seal: Bentonite to 3.5' and from 22' to 50' Filter pack: #10/20 silica sand from 3.5' to 22'	0-12' Sand & Silt with Gravel 12-50' Sandstone/Siltstone/Mudstone

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

■ Construction
☐ Decommission ⇒ Original NOI No. _____

Ecology Well ID Tag No. BBH696

Site Well Name MW13R

Consulting Firm Hydrocon

Was a variance approved for this well/boring? ☐ Yes ■ No

If yes, what was the variance for? _____

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

■ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Hageman, Ethan

Driller/Engineer/Trainee Signature _____

License No. 2968

Company Name Budinger & Associates, Inc

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. RE17634

Type of Well:

■ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other _____
↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner Coleman Oil Company

Well Street Address Chehalis & Worthen

City Wenatchee County Chelan

Tax Parcel No. _____

Location (see instructions): WWM ☐ or EWM ■

SE ¼-¼ NE ¼, Section 10 Town 22N Range 20

Latitude (Example: 47.12345) _____

Longitude (Example: -120.12345) _____

(WGS 84 Coordinate System)

Borehole diameter 8 inches Casing diameter _____ inches

Static water level 9 ft below top of casing Date 6/25/19

☐ Above-ground completion with bollards ■ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 6/25/19 Completed Date 6/25/19

Construction Design	Well Data	Driller's Log
	Riser: 4" sched 40 pvc to 5' Screen: 4" sched 40 pvc (0.010" slot) from 5' to 19' with end cap Seal: Bentonite to 4' Filter pack: #10/20 silica sand from 4' to 19.5'	0-11' Gravel with Sand & Cobbles 11-19.5' Sandstone

APPENDIX B

SOIL DISPOSAL DOCUMENTATION

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836001

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 09:58:54	Inbound	Janelle		Gross	114840 lb
Out	05/22/2019 10:31:50	Outbound	Janelle		Tare	42900 lb
					Net	71940 lb
					Tons	35.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	35.97	Tons	33.00	42.73	$1187.01	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	7.48	$207.73	CHELAN
3	CDHD FEE-Chelan Douglas	100	35.97	Tons	1.00	1.29	$35.97	CHELAN

Total Tax/Fees $51.50
Total Ticket $1482.21

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836002

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 10:01:20	Inbound	Janelle		Gross	124960 lb
Out	05/22/2019 10:33:41	Outbound	Janelle		Tare	43840 lb
					Net	81120 lb
					Tons	40.56

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	40.56	Tons	33.00	48.19	$1338.48	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	8.43	$234.23	CHELAN
3	CDHD FEE-Chelan Douglas	100	40.56	Tons	1.00	1.46	$40.56	CHELAN

Total Tax/Fees $58.08
Total Ticket $1671.35

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836022

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 11:29:37	Inbound	Janelle		Gross	95520 lb
Out	05/22/2019 11:45:18	Outbound	Janelle		Tare	42860 lb
					Net	52660 lb
					Tons	26.33

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.33	Tons	33.00	31.28	$868.89	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.47	$152.06	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.33	Tons	1.00	0.95	$26.33	CHELAN

Total Tax/Fees $37.70
Total Ticket $1084.98

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836023

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 11:36:33	Inbound	Janelle		Gross	106780 lb
Out	05/22/2019 11:52:56	Outbound	Janelle		Tare	64700 lb
					Net	42080 lb
					Tons	21.04

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	21.04	Tons	33.00	25.00	$694.32	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	4.37	$121.51	CHELAN
3	CDHD FEE-Chelan Douglas	100	21.04	Tons	1.00	0.76	$21.04	CHELAN

Total Tax/Fees $30.13
Total Ticket $867.00

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836031

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 12:36:02	Inbound	Janelle		Gross	118880 lb
Out	05/22/2019 12:50:38	Outbound	Janelle		Tare	41200 lb
					Net	77680 lb
					Tons	38.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	38.84	Tons	33.00	46.14	$1281.72	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	8.07	$224.30	CHELAN
3	CDHD FEE-Chelan Douglas	100	38.84	Tons	1.00	1.40	$38.84	CHELAN

Total Tax/Fees $55.61
Total Ticket $1600.47

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836033

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 12:43:26	Inbound	Janelle		Gross	115500 lb
Out	05/22/2019 13:00:20	Outbound	Janelle		Tare	44080 lb
					Net	71420 lb
					Tons	35.71

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	35.71	Tons	33.00	42.42	$1178.43	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	7.42	$206.23	CHELAN
3	CDHD FEE-Chelan Douglas	100	35.71	Tons	1.00	1.29	$35.71	CHELAN

Total Tax/Fees $51.13
Total Ticket $1471.50

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836042

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 13:40:14	Inbound	tgarcia9		Gross	119160 lb
Out	05/22/2019 13:56:02	Outbound	Janelle		Tare	42520 lb
					Net	76640 lb
					Tons	38.32

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	38.32	Tons	33.00	45.52	$1264.56	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	7.97	$221.30	CHELAN
3	CDHD FEE-Chelan Douglas	100	38.32	Tons	1.00	1.38	$38.32	CHELAN

Total Tax/Fees $54.87
Total Ticket $1579.05

Driver`s Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836046

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 13:49:46	Inbound	tgarcia9		Gross	109080 lb
Out	05/22/2019 14:06:34	Outbound	Janelle		Tare	44000 lb
					Net	65080 lb
					Tons	32.54

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	32.54	Tons	33.00	38.66	$1073.82	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.77	$187.92	CHELAN
3	CDHD FEE-Chelan Douglas	100	32.54	Tons	1.00	1.17	$32.54	CHELAN

Total Tax/Fees $46.60
Total Ticket $1340.88

Driver`s Signature 

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836058

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/22/2019 15:01:57	Inbound	Janelle		Gross	108200 lb
Out	05/22/2019 15:21:24	Outbound	Janelle		Tare	44000 lb
					Net	64200 lb
					Tons	32.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	32.10	Tons	33.00	38.13	$1059.30	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.67	$185.38	CHELAN
3	CDHD FEE-Chelan Douglas	100	32.10	Tons	1.00	1.16	$32.10	CHELAN

Total Tax/Fees $45.96
Total Ticket $1322.74

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802

Ph: (509) 884-2802

Original
Ticket# 836055

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/22/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator
In	05/22/2019 14:48:40	Inbound	Janelle
Out	05/22/2019 15:04:29	Outbound	Janelle

Inbound

Gross	101820 lb
Tare	42740 lb
Net	59080 lb
Tons	29.54

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	29.54	Tons	33.00	35.09	$974.82	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.14	$170.59	CHELAN
3	CDHD FEE-Chelan Douglas	100	29.54	Tons	1.00	1.06	$29.54	CHELAN

Total Tax/Fees	$42.29
Total Ticket	$1217.24

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836115

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 115154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 09:23:45	Inbound	Janelle		Gross	103920 lb
Out	05/23/2019 09:37:50	Outbound	Janelle		Tare	43720 lb
					Net	60200 lb
					Tons	30.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	30.10	Tons	33.00	35.76	$993.30	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.26	$173.83	CHELAN
3	CDHD FEE-Chelan Douglas	100	30.10	Tons	1.00	1.08	$30.10	CHELAN

Total Tax/Fees $43.10
Total Ticket $1240.33

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836112

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 09:15:37	Inbound	Janelle		Gross	112540 lb
Out	05/23/2019 09:30:07	Outbound	Janelle		Tare	43800 lb
					Net	68740 lb
					Tons	34.37

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	34.37	Tons	33.00	40.83	$1134.21	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	7.15	$198.49	CHELAN
3	CDHD FEE-Chelan Douglas	100	34.37	Tons	1.00	1.24	$34.37	CHELAN

Total Tax/Fees $49.22
Total Ticket $1416.29

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836106

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 08:52:17	Inbound	Janelle		Gross	54320 lb
Out	05/23/2019 09:05:09	Outbound	Janelle		Tare	24480 lb
					Net	29840 lb
					Tons	14.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	14.92	Tons	33.00	17.72	$492.36	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	3.10	$86.16	CHELAN
3	CDHD FEE-Chelan Douglas	100	14.92	Tons	1.00	0.54	$14.92	CHELAN

Total Tax/Fees $21.36
Total Ticket $614.80

Driver's Signature Don Henderson

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836095

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	107660 lb
In	05/23/2019 08:17:26	Inbound	Janelle		Tare	42700 lb
Out	05/23/2019 08:32:16	Outbound	Janelle		Net	64960 lb
					Tons	32.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	32.48	Tons	33.00	38.59	$1071.84	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.75	$187.57	CHELAN
3	CDHD FEE-Chelan Douglas	100	32.48	Tons	1.00	1.17	$32.48	CHELAN

Total Tax/Fees $46.51
Total Ticket $1338.40

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836094

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 08:11:25	Inbound	Janelle		Gross	108160 lb
Out	05/23/2019 08:26:05	Outbound	Janelle		Tare	43880 lb
					Net	64280 lb
					Tons	32.14

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	32.14	Tons	33.00	38.18	$1060.62	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.68	$185.61	CHELAN
3	CDHD FEE-Chelan Douglas	100	32.14	Tons	1.00	1.16	$32.14	CHELAN

Total Tax/Fees $46.02
Total Ticket $1324.39

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836090

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	51340 lb
In	05/23/2019 07:56:09	Inbound	Janelle		Tare	24460 lb
Out	05/23/2019 08:09:52	Outbound	Janelle		Net	26880 lb
					Tons	13.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	13.44	Tons	33.00	15.97	$443.52	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	2.79	$77.62	CHELAN
3	CDHD FEE-Chelan Douglas	100	13.44	Tons	1.00	0.48	$13.44	CHELAN

Total Tax/Fees $19.24
Total Ticket $553.82

Driver`s Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836081

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 07:11:35	Inbound	Janelle		Gross	97700 lb
Out	05/23/2019 07:25:30	Outbound	Janelle		Tare	42420 lb
					Net	55280 lb
					Tons	27.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	27.64	Tons	33.00	32.84	$912.12	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.75	$159.62	CHELAN
3	CDHD FEE-Chelan Douglas	100	27.64	Tons	1.00	1.00	$27.64	CHELAN

Total Tax/Fees $39.59
Total Ticket $1138.97

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836079

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 07:09:47	Inbound	Janelle		Gross	97440 lb
Out	05/23/2019 07:23:27	Outbound	Janelle		Tare	43900 lb
					Net	53540 lb
					Tons	26.77

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.77	Tons	33.00	31.80	$883.41	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.57	$154.60	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.77	Tons	1.00	0.96	$26.77	CHELAN

Total Tax/Fees $38.33
Total Ticket $1103.11

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836075

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 06:52:13	Inbound	Janelle		Gross	47640 lb
Out	05/23/2019 07:08:27	Outbound	Janelle		Tare	24500 lb
					Net	23140 lb
					Tons	11.57

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	11.57	Tons	33.00	13.75	$381.81	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	2.41	$66.82	CHELAN
3	CDHD FEE-Chelan Douglas	100	11.57	Tons	1.00	0.42	$11.57	CHELAN

Total Tax/Fees $16.58
Total Ticket $476.78

Driver's Signature Don Harrison

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836065

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 06:04:13	Inbound	Janelle		Gross	97660 lb
Out	05/23/2019 06:19:56	Outbound	Janelle		Tare	44500 lb
					Net	53160 lb
					Tons	26.58

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.58	Tons	33.00	31.58	$877.14	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.53	$153.50	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.58	Tons	1.00	0.96	$26.58	CHELAN

Total Tax/Fees $38.07
Total Ticket $1095.29

Driver's Signature Ada Mottle

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836066

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 06:05:10	Inbound	Janelle		Gross	103160 lb
Out	05/23/2019 06:23:18	Outbound	Janelle		Tare	42840 lb
					Net	60320 lb
					Tons	30.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	30.16	Tons	33.00	35.83	$995.28	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.27	$174.17	CHELAN
3	CDHD FEE-Chelan Douglas	100	30.16	Tons	1.00	1.09	$30.16	CHELAN

Total Tax/Fees $43.19
Total Ticket $1242.80

Driver`s Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836176

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 13:51:02	Inbound	tgarcia9		Gross	89980 lb
Out	05/23/2019 14:05:51	Outbound	tgarcia9		Tare	42500 lb
					Net	47480 lb
					Tons	23.74

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	23.74	Tons	33.00	28.20	$783.42	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	4.94	$137.10	CHELAN
3	CDHD FEE-Chelan Douglas	100	23.74	Tons	1.00	0.85	$23.74	CHELAN

Total Tax/Fees $33.99
Total Ticket $978.25

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836177

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 13:53:38	Inbound	tgarcia9		Gross	100840 lb
Out	05/23/2019 14:09:03	Outbound	tgarcia9		Tare	43700 lb
					Net	57140 lb
					Tons	28.57

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	28.57	Tons	33.00	33.94	$942.81	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.94	$164.99	CHELAN
3	CDHD FEE-Chelan Douglas	100	28.57	Tons	1.00	1.03	$28.57	CHELAN

Total Tax/Fees $40.91
Total Ticket $1177.28

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836162

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154WA
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 12:28:07	Inbound	Janelle		Gross	97480 lb
Out	05/23/2019 12:44:52	Outbound	Janelle		Tare	43820 lb
					Net	53660 lb
					Tons	26.83

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.83	Tons	33.00	31.87	$885.39	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.58	$154.94	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.83	Tons	1.00	0.97	$26.83	CHELAN

Total Tax/Fees $38.42
Total Ticket $1105.58

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836161

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154WA
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 12:25:34	Inbound	Janelle		Gross	96700 lb
Out	05/23/2019 12:40:34	Outbound	Janelle		Tare	43720 lb
					Net	52980 lb
					Tons	26.49

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.49	Tons	33.00	31.47	$874.17	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.51	$152.98	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.49	Tons	1.00	0.95	$26.49	CHELAN

Total Tax/Fees $37.93
Total Ticket $1091.57

Driver's Signature Caden Mollett

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836150

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154WA
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	53100 lb
In	05/23/2019 11:54:30	Inbound	Janelle		Tare	24320 lb
Out	05/23/2019 12:11:02	Outbound	Janelle		Net	28780 lb
					Tons	14.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	14.39	Tons	33.00	17.10	$474.87	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	2.99	$83.10	CHELAN
3	CDHD FEE-Chelan Douglas	100	14.39	Tons	1.00	0.52	$14.39	CHELAN

Total Tax/Fees $20.61
Total Ticket $592.97

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836143

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 11:21:10	Inbound	Janelle		Gross	100520 lb
Out	05/23/2019 11:40:26	Outbound	Janelle		Tare	43720 lb
					Net	56800 lb
					Tons	28.40

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	28.40	Tons	33.00	33.74	$937.20	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.90	$164.01	CHELAN
3	CDHD FEE-Chelan Douglas	100	28.40	Tons	1.00	1.02	$28.40	CHELAN

Total Tax/Fees $40.66
Total Ticket $1170.27

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836142

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	104820 lb
In	05/23/2019 11:18:15	Inbound	Janelle		Tare	43760 lb
Out	05/23/2019 11:35:45	Outbound	Janelle		Net	61060 lb
					Tons	30.53

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	30.53	Tons	33.00	36.27	$1007.49	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.35	$176.31	CHELAN
3	CDHD FEE-Chelan Douglas	100	30.53	Tons	1.00	1.10	$30.53	CHELAN

Total Tax/Fees $43.72
Total Ticket $1258.05

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836130

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound		
In	05/23/2019 10:44:46	Inbound	Janelle		Gross	53360 lb
Out	05/23/2019 10:57:18	Outbound	Janelle		Tare	24360 lb
					Net	29000 lb
					Tons	14.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	14.50	Tons	33.00	17.23	$478.50	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	3.01	$83.74	CHELAN
3	CDHD FEE-Chelan Douglas	100	14.50	Tons	1.00	0.52	$14.50	CHELAN

Total Tax/Fees $20.76
Total Ticket $597.50

Driver's Signature Don Hanson

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836124

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 2
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	102440 lb
In	05/23/2019 10:19:22	Inbound	Janelle		Tare	42600 lb
Out	05/23/2019 10:38:44	Outbound	Janelle		Net	59840 lb
					Tons	29.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	29.92	Tons	33.00	35.54	$987.36	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	6.22	$172.79	CHELAN
3	CDHD FEE-Chelan Douglas	100	29.92	Tons	1.00	1.08	$29.92	CHELAN

Total Tax/Fees $42.84
Total Ticket $1232.91

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836123

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier coleman
Vehicle# 1
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	104620 lb
In	05/23/2019 10:18:26	Inbound	Janelle		Tare	51080 lb
Out	05/23/2019 10:33:35	Outbound	Janelle		Net	53540 lb
					Tons	26.77

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	26.77	Tons	33.00	31.80	$883.41	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	5.57	$154.60	CHELAN
3	CDHD FEE-Chelan Douglas	100	26.77	Tons	1.00	0.96	$26.77	CHELAN

Total Tax/Fees $38.33
Total Ticket $1103.11

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

Greater Wenatchee Regional Landfill
191 Webb Road
Wenatchee, WA, 98802 Ph: (509) 884-2802

Original
Ticket# 836119

Customer Name COLEMANOIL Coleman Oil C
Ticket Date 05/23/2019
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
Manifest 114154wa
Profile 114154WA (LFO2 Debris and Soil Impacted Weathered Gasoline Petroleum Spill)
Generator WA-COLEMAN OIL COMPANY LLC COLEMAN OIL COMPANY LLC_3 EAST CHEHALIS, WENATCH
PO#

Carrier MIKE WOOD
Vehicle# 0
Container
Driver
Check#
Billing# 0508162
Grid

	Time	Scale	Operator	Inbound	Gross	52460 lb
In	05/23/2019 09:50:34	Inbound	Janelle		Tare	24360 lb
Out	05/23/2019 10:03:44	Outbound	Janelle		Net	28100 lb
					Tons	14.05

Comments

	Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1	Cont Soil Pet-RGC-Tons-	100	14.05	Tons	33.00	16.69	$463.65	CHELAN
2	17.5% FEA-17.5% FEA FEE	100		%	17.50	2.92	$81.14	CHELAN
3	CDHD FEE-Chelan Douglas	100	14.05	Tons	1.00	0.51	$14.05	CHELAN

Total Tax/Fees $20.12
Total Ticket $578.96

Driver's Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technical limitation.

APPENDIX D

WELL DEVELOPMENT FORM

Hydro Con

WELL DEVELOPMENT

Well ID #: MW3R
Date: 6-25-19
Time: —

Project name: Colcan oil
Project #: 2017-074
Engineer: RAH

WELL INFORMATION

Monument condition ☑ Good ○ Needs repair _____
Well cap condition ☑ Good ○ Locked ○ Replaced ○ Needs replacement
Headspace reading ☑ Not measured _____ ppm
Elevation mark ○ Yes ☑ Added ☑ Other _____
Well diameter ○ 1.5-inch ○ 2-inch ☑ 4-inch ○ Other _____
☑ Odor Slight HC ○ Comments _____

WELL MEASUREMENTS

Total well depth 18.46 ft ○ Clean bottom ○ Muddy bottom ○ Not measured
Depth to product — ft
Depth to water 9.04 ft
Casing volume 9.42 ft (H_2O) X 0.65 gpf = 6.123
Casing volumes 1"=0.04 gpf 1.5"=0.09 gpf 2"=0.16 gpf 4"=0.65 gpf 6"= 1.47 gpf

PURGING INFORMATION

Pump type ○ Peristaltic ☑ Submersible ○ Centrifugal ○ Other _____
Purge tubing ○ New LDPE ☑ New HDPE ○ New Teflon ○ Other _____
Bailer type ○ Disposable ○ Stainless ○ PVC ○ Other _____
Bailer cord used ○ Monofillament ○ Other _____
Purge start time 1500 Purge stop time 1510 Purge Rate (GPM) 1.25
Total Volume Purged (gallons) 45

FIELD PARAMETERS

Meters used ○ FlowThru Cell ○ Hach ○ Hanna ○ Other NR

Gallons	pH	Temp.	Conductivity	Turbidity	Dissolved Oxygen	ORP

NOTES/COMMENTS

Well Purged Dry Twice & allowed To recharge. Slow purge rate To 1 GPM. Turbidity cleared very quickly after surging.

Engineer's Signature _____ Date 6-25-19

APPENDIX C

BORING LOGS

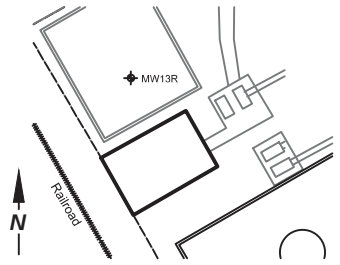
HydroCon

314 West 15th Street, Suite 300
Vancouver, WA. 98660
Phone: 360-703-6079

WELL/BORING NUMBER: MW13R

PROJECT NAME: Coleman Oil
PROJECT NUMBER: 2017-074
PROJECT LOCATION: Wenatchee, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-2-19

LOCATION MAP



DESCRIPTION (USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)	DEPTH (FT.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
Gravel at ground surface	0							
Gravelly Sand (SP), Light brown, 50% fine sand, 40% subangular gravel and cobbles up to 6" diameter, and 10% non plastic silt, dry, no odor. Fill Material					0.1			
	5				0.1			
					0.1			
					0.1			
					0.1			
Sand (SP), Grey, 95% fine to medium sand and 5% non plastic silt, moist, strong hydrocarbon odor.	10			MW13R-10	1,416			
					172			
Sandstone, light brownish grey, medium grained, quartz, mica, hard and compentent. **Chumstick Formation at 11'bgs.**					0.4			
					0.1			
	15							
					0.1			
					0.1			
					0.1			
End of boring at 19.0' bgs.	20							
	25							
	30							

WELL CONSTRUCTION

Depths (feet bgs)

Borehole: 19
Sump: 18.46 to 18.23
Screen: 18.23 to 4.23
Casing: 4.23 to 0
Backfill:
Sand Pack: 19 to 3.23
Bentonite: 3.23 to 1.5
Concrete: 1.5 to 0
Stabilizers:

MATERIALS USED

Casing: 4" PVC
Well Screen: 14' 0.010-inch slot
End Cap: Flat sump
Sand Pack: 7 50lb bags 10-20
Bentonite: 1 50lb bag
Concrete: 2 50lb bags
Monument: Flush Mount
Well Cap: J-plug
Other:

DRILLING CONTRACTOR: Budinger
DRILLING METHOD: Sonic
BOREHOLE DIAMETER: 8 Inch
SAMPLING METHOD: Core Barrel
WELL TAG ID: BBH696

CASING ELEVATION: 656.81'
GROUND SURFACE ELEVATION: 656.67'
NORTHING: 152761.39
EASTING: 1771778.52

APPENDIX E

LABORATROY ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Friday, May 31, 2019

Craig Hultgren
HydroCon LLC
314 W 15th Street Suite 300
Vancouver, WA 98660

RE: A9E0803 - Coleman Wenatchee - 2017-074

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9E0803, which was received by the laboratory on 5/24/2019 at 10:45:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.1 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW01-08	A9E0803-01	Soil	05/22/19 13:50	05/24/19 10:45
B01-12	A9E0803-02	Soil	05/22/19 13:55	05/24/19 10:45
ESW01-08	A9E0803-03	Soil	05/22/19 14:00	05/24/19 10:45
SE Corner01-08	A9E0803-04	Soil	05/22/19 14:05	05/24/19 10:45
SSW01-08	A9E0803-05	Soil	05/22/19 14:10	05/24/19 10:45
SW Corner01-08	A9E0803-06	Soil	05/22/19 14:15	05/24/19 10:45
WSW02-08	A9E0803-07	Soil	05/23/19 08:25	05/24/19 10:45
B02-12	A9E0803-08	Soil	05/23/19 08:30	05/24/19 10:45
ESW02-08	A9E0803-09	Soil	05/23/19 08:35	05/24/19 10:45
ESW03-08	A9E0803-10	Soil	05/23/19 13:35	05/24/19 10:45
B03-13	A9E0803-11	Soil	05/23/19 13:40	05/24/19 10:45
WSW03-08	A9E0803-12	Soil	05/23/19 13:45	05/24/19 10:45
NE Corner01-08	A9E0803-13	Soil	05/23/19 13:50	05/24/19 10:45
NSW01-08	A9E0803-14	Soil	05/23/19 13:55	05/24/19 10:45
NW Corner01-08	A9E0803-15	Soil	05/23/19 14:00	05/24/19 10:45

Apex Laboratories

Lisa Domenighini, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WSW01-08 (A9E0803-01)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**1330**	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	**F-19**
Oil	**443**	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	**F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
B01-12 (A9E0803-02RE1)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**8220**	---	435	mg/kg dry	20	05/29/19	NWTPH-Dx	
Oil	ND	---	869	mg/kg dry	20	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*	*20*	*05/29/19*	*NWTPH-Dx*	*S-01*
ESW01-08 (A9E0803-03)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	ND	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
SE Corner01-08 (A9E0803-04)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	ND	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
SSW01-08 (A9E0803-05)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	ND	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Oil	**803**	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
SW Corner01-08 (A9E0803-06RE1)				**Matrix: Soil**		**Batch: 9051272**		
Diesel	ND	---	1120	mg/kg dry	50	05/28/19	NWTPH-Dx	
Oil	**12900**	---	2240	mg/kg dry	50	05/28/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*	*50*	*05/28/19*	*NWTPH-Dx*	*S-01*
WSW02-08 (A9E0803-07RE1)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**2850**	---	107	mg/kg dry	5	05/29/19	NWTPH-Dx	**F-15**
Oil	**466**	---	214	mg/kg dry	5	05/29/19	NWTPH-Dx	**F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*	*5*	*05/29/19*	*NWTPH-Dx*	*S-05*
B02-12 (A9E0803-08RE1)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**5650**	---	218	mg/kg dry	10	05/29/19	NWTPH-Dx	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B02-12 (A9E0803-08RE1)				**Matrix: Soil**		**Batch: 9051315**		
Oil	ND	---	436	mg/kg dry	10	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 100 %*		*Limits: 50-150 %*	*10*	*05/29/19*	*NWTPH-Dx*	*S-05*
ESW02-08 (A9E0803-09)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	ND	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
ESW03-08 (A9E0803-10)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**171**	---	25.0	mg/kg dry	1	05/29/19	NWTPH-Dx	**F-15**
Oil	**693**	---	50.0	mg/kg dry	1	05/29/19	NWTPH-Dx	**F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 100 %*		*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Dx*	
B03-13 (A9E0803-11)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**10100**	---	418	mg/kg dry	20	05/29/19	NWTPH-Dx	
Oil	ND	---	837	mg/kg dry	20	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*	*20*	*05/29/19*	*NWTPH-Dx*	*S-01*
WSW03-08 (A9E0803-12)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**3210**	---	105	mg/kg dry	5	05/29/19	NWTPH-Dx	
Oil	ND	---	210	mg/kg dry	5	05/29/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 111 %*		*Limits: 50-150 %*	*5*	*05/29/19*	*NWTPH-Dx*	
NE Corner01-08 (A9E0803-13)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**120**	---	25.0	mg/kg dry	1	05/28/19	NWTPH-Dx	**F-15**
Oil	**346**	---	50.0	mg/kg dry	1	05/28/19	NWTPH-Dx	**F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Dx*	
NSW01-08 (A9E0803-14)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	ND	---	25.0	mg/kg dry	1	05/28/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	05/28/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Dx*	
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**		**Batch: 9051315**		
Diesel	**282**	---	25.0	mg/kg dry	1	05/28/19	NWTPH-Dx	**F-19**
Oil	**197**	---	50.0	mg/kg dry	1	05/28/19	NWTPH-Dx	**F-16**

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Tigard, OR 97223
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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**			**Batch: 9051315**	
Surrogate: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Dx*	

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WSW01-08 (A9E0803-01RE1)				**Matrix: Soil**		**Batch: 9051298**		
Gasoline Range Organics	**3010**	---	101	mg/kg dry	1000	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 112 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*95 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
B01-12 (A9E0803-02RE1)				**Matrix: Soil**		**Batch: 9051298**		
Gasoline Range Organics	**1730**	---	58.3	mg/kg dry	500	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 144 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
ESW01-08 (A9E0803-03RE1)				**Matrix: Soil**		**Batch: 9051298**		
Gasoline Range Organics	ND	---	5.77	mg/kg dry	50	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 107 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
SE Corner01-08 (A9E0803-04)				**Matrix: Soil**		**Batch: 9051287**		
Gasoline Range Organics	ND	---	5.67	mg/kg dry	50	05/26/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*		*Limits: 50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
SSW01-08 (A9E0803-05)				**Matrix: Soil**		**Batch: 9051287**		
Gasoline Range Organics	ND	---	5.40	mg/kg dry	50	05/26/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*		*Limits: 50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
SW Corner01-08 (A9E0803-06)				**Matrix: Soil**		**Batch: 9051287**		
Gasoline Range Organics	**29.0**	---	5.57	mg/kg dry	50	05/26/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 111 %*		*Limits: 50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*100 %*	*50-150 %*	*1*	*05/26/19*	*NWTPH-Gx (MS)*	
WSW02-08 (A9E0803-07RE1)				**Matrix: Soil**		**Batch: 9051298**		
Gasoline Range Organics	**1450**	---	66.0	mg/kg dry	500	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 124 %*		*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*102 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
B02-12 (A9E0803-08RE1)				**Matrix: Soil**		**Batch: 9051298**		
Gasoline Range Organics	**848**	---	48.3	mg/kg dry	500	05/28/19	NWTPH-Gx (MS)	

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Tigard, OR 97223
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EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B02-12 (A9E0803-08RE1)				**Matrix: Soil**			**Batch: 9051298**	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 125 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*94 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
ESW02-08 (A9E0803-09)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	ND	---	5.26	mg/kg dry	50	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*88 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
ESW03-08 (A9E0803-10)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	**5.96**	---	5.41	mg/kg dry	50	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 114 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
B03-13 (A9E0803-11)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	**2780**	---	94.5	mg/kg dry	1000	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 137 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*97 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
WSW03-08 (A9E0803-12)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	**769**	---	39.6	mg/kg dry	500	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 129 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*94 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
NE Corner01-08 (A9E0803-13RE1)				**Matrix: Soil**			**Batch: 9051340**	
Gasoline Range Organics	**12.0**	---	4.93	mg/kg dry	50	05/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 107 %*	*Limits: 50-150 %*	*1*	*05/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*05/29/19*	*NWTPH-Gx (MS)*	
NSW01-08 (A9E0803-14)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	ND	---	5.44	mg/kg dry	50	05/28/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**			**Batch: 9051298**	
Gasoline Range Organics	**127**	---	4.99	mg/kg dry	50	05/28/19	NWTPH-Gx (MS)	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**			**Batch: 9051298**	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*150 %*	*Limits: 50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*90 %*	*50-150 %*	*1*	*05/28/19*	*NWTPH-Gx (MS)*	

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WSW01-08 (A9E0803-01)				**Matrix: Soil**		**Batch: 9051287**		
Benzene	**0.0390**	---	0.0101	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	**0.123**	---	0.0503	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*93 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
WSW01-08 (A9E0803-01RE1)				**Matrix: Soil**		**Batch: 9051298**		
Ethylbenzene	**9.80**	---	0.503	mg/kg dry	1000	05/28/19	5035A/8260C	
Xylenes, total	**93.1**	---	1.51	mg/kg dry	1000	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*92 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
B01-12 (A9E0803-02)				**Matrix: Soil**		**Batch: 9051287**		
Benzene	**0.236**	---	0.0117	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	**0.0782**	---	0.0583	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	**0.118**	---	0.0292	mg/kg dry	50	05/26/19	5035A/8260C	
Xylenes, total	**12.1**	---	0.0875	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*112 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
ESW01-08 (A9E0803-03RE1)				**Matrix: Soil**		**Batch: 9051298**		
Benzene	ND	---	0.0115	mg/kg dry	50	05/28/19	5035A/8260C	
Toluene	ND	---	0.0577	mg/kg dry	50	05/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0289	mg/kg dry	50	05/28/19	5035A/8260C	
Xylenes, total	ND	---	0.0866	mg/kg dry	50	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*94 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*105 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
SE Corner01-08 (A9E0803-04)				**Matrix: Soil**		**Batch: 9051287**		
Benzene	ND	---	0.0113	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	ND	---	0.0567	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	ND	---	0.0283	mg/kg dry	50	05/26/19	5035A/8260C	
Xylenes, total	ND	---	0.0850	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*102 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE Corner01-08 (A9E0803-04)				**Matrix: Soil**			**Batch: 9051287**	
Surrogate: Toluene-d8 (Surr)		*Recovery:*	*95 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
SSW01-08 (A9E0803-05)				**Matrix: Soil**			**Batch: 9051287**	
Benzene	ND	---	0.0108	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	ND	---	0.0540	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	ND	---	0.0270	mg/kg dry	50	05/26/19	5035A/8260C	
Xylenes, total	ND	---	0.0810	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*95 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*106 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
SW Corner01-08 (A9E0803-06)				**Matrix: Soil**			**Batch: 9051287**	
Benzene	ND	---	0.0111	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	ND	---	0.0557	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	**0.0455**	---	0.0278	mg/kg dry	50	05/26/19	5035A/8260C	
Xylenes, total	**0.587**	---	0.0835	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*94 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*105 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
WSW02-08 (A9E0803-07)				**Matrix: Soil**			**Batch: 9051287**	
Benzene	**0.0704**	---	0.0132	mg/kg dry	50	05/26/19	5035A/8260C	
Toluene	**0.955**	---	0.0660	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	**8.30**	---	0.0330	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*95 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*105 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
WSW02-08 (A9E0803-07RE1)				**Matrix: Soil**			**Batch: 9051298**	
Xylenes, total	**52.3**	---	0.990	mg/kg dry	500	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*91 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
B02-12 (A9E0803-08)				**Matrix: Soil**			**Batch: 9051287**	
Benzene	**1.01**	---	0.00965	mg/kg dry	50	05/26/19	5035A/8260C	

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B02-12 (A9E0803-08)				**Matrix: Soil**			**Batch: 9051287**	
Toluene	**0.179**	---	0.0483	mg/kg dry	50	05/26/19	5035A/8260C	
Ethylbenzene	**1.04**	---	0.0241	mg/kg dry	50	05/26/19	5035A/8260C	
Xylenes, total	**11.6**	---	0.0724	mg/kg dry	50	05/26/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*94 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*109 %*	*80-120 %*	*1*	*05/26/19*	*5035A/8260C*	
ESW02-08 (A9E0803-09)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	ND	---	0.0105	mg/kg dry	50	05/28/19	5035A/8260C	
Toluene	ND	---	0.0526	mg/kg dry	50	05/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0263	mg/kg dry	50	05/28/19	5035A/8260C	
Xylenes, total	ND	---	0.0789	mg/kg dry	50	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*99 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
ESW03-08 (A9E0803-10)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	ND	---	0.0108	mg/kg dry	50	05/28/19	5035A/8260C	
Toluene	ND	---	0.0541	mg/kg dry	50	05/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0271	mg/kg dry	50	05/28/19	5035A/8260C	
Xylenes, total	ND	---	0.0812	mg/kg dry	50	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*94 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*106 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
B03-13 (A9E0803-11)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	**3.16**	---	0.189	mg/kg dry	1000	05/28/19	5035A/8260C	
Toluene	ND	---	0.945	mg/kg dry	1000	05/28/19	5035A/8260C	Q-42
Ethylbenzene	**1.46**	---	0.473	mg/kg dry	1000	05/28/19	5035A/8260C	
Xylenes, total	**34.6**	---	1.42	mg/kg dry	1000	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*99 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
WSW03-08 (A9E0803-12)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	ND	---	0.0792	mg/kg dry	500	05/28/19	5035A/8260C	
Toluene	ND	---	0.396	mg/kg dry	500	05/28/19	5035A/8260C	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WSW03-08 (A9E0803-12)				**Matrix: Soil**			**Batch: 9051298**	
Ethylbenzene	ND	---	0.198	mg/kg dry	500	05/28/19	5035A/8260C	
Xylenes, total	**1.14**	---	0.594	mg/kg dry	500	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*98 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
NE Corner01-08 (A9E0803-13RE1)				**Matrix: Soil**			**Batch: 9051340**	
Benzene	ND	---	0.00985	mg/kg dry	50	05/29/19	5035A/8260C	
Toluene	ND	---	0.0493	mg/kg dry	50	05/29/19	5035A/8260C	
Ethylbenzene	ND	---	0.0246	mg/kg dry	50	05/29/19	5035A/8260C	
Xylenes, total	ND	---	0.0739	mg/kg dry	50	05/29/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*98 %*	*Limits: 80-120 %*	*1*	*05/29/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*05/29/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*105 %*	*80-120 %*	*1*	*05/29/19*	*5035A/8260C*	
NSW01-08 (A9E0803-14)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	ND	---	0.0109	mg/kg dry	50	05/28/19	5035A/8260C	
Toluene	ND	---	0.0544	mg/kg dry	50	05/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0272	mg/kg dry	50	05/28/19	5035A/8260C	
Xylenes, total	ND	---	0.0816	mg/kg dry	50	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*98 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**			**Batch: 9051298**	
Benzene	ND	---	0.00998	mg/kg dry	50	05/28/19	5035A/8260C	
Toluene	**0.102**	---	0.0499	mg/kg dry	50	05/28/19	5035A/8260C	
Ethylbenzene	**0.177**	---	0.0250	mg/kg dry	50	05/28/19	5035A/8260C	
Xylenes, total	**2.44**	---	0.0749	mg/kg dry	50	05/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*05/28/19*	*5035A/8260C*	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WSW01-08 (A9E0803-01)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**87.8**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
B01-12 (A9E0803-02)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**86.8**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
ESW01-08 (A9E0803-03)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**88.2**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
SE Corner01-08 (A9E0803-04)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**91.1**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
SSW01-08 (A9E0803-05)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**87.7**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
SW Corner01-08 (A9E0803-06)				**Matrix: Soil**			**Batch: 9051241**	
% Solids	**85.8**	---	1.00	% by Weight	1	05/28/19	EPA 8000C	
WSW02-08 (A9E0803-07)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**84.0**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
B02-12 (A9E0803-08)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**89.9**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
ESW02-08 (A9E0803-09)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**92.8**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
ESW03-08 (A9E0803-10)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**89.3**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
B03-13 (A9E0803-11)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**84.7**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
WSW03-08 (A9E0803-12)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**90.8**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
NE Corner01-08 (A9E0803-13)				**Matrix: Soil**			**Batch: 9051297**	

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NE Corner01-08 (A9E0803-13)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**87.7**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
NSW01-08 (A9E0803-14)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**91.9**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	
NW Corner01-08 (A9E0803-15)				**Matrix: Soil**			**Batch: 9051297**	
% Solids	**91.3**	---	1.00	% by Weight	1	05/29/19	EPA 8000C	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051272 - EPA 3546 (Fuels)							Soil					
Blank (9051272-BLK1)		Prepared: 05/24/19 13:36 Analyzed: 05/25/19 00:10										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (9051272-BS1)		Prepared: 05/24/19 13:36 Analyzed: 05/25/19 00:31										
NWTPH-Dx												
Diesel	108	---	25.0	mg/kg wet	1	125	---	87	76 - 115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (9051272-DUP3)		Prepared: 05/24/19 13:36 Analyzed: 05/28/19 13:29										
QC Source Sample: SW Corner01-08 (A9E0803-06RE1)												
NWTPH-Dx												
Diesel	ND	---	1120	mg/kg dry	50	---	ND	---	---	---	30%	
Oil	**13400**	---	2230	mg/kg dry	50	---	12900	---	---	4	30%	
Surr: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*			*Dilution: 50x*					S-01
Batch 9051315 - EPA 3546 (Fuels)							Soil					
Blank (9051315-BLK1)		Prepared: 05/28/19 13:05 Analyzed: 05/28/19 22:25										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 95 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (9051315-BS1)		Prepared: 05/28/19 13:05 Analyzed: 05/28/19 22:47										
NWTPH-Dx												
Diesel	107	---	25.0	mg/kg wet	1	125	---	86	76 - 115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 102 %*		*Limits: 50-150 %*			*Dilution: 1x*					

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051287 - EPA 5035A									Soil			
Blank (9051287-BLK1)		Prepared: 05/26/19 10:00		Analyzed: 05/26/19 11:52								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 91 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*89 %*		*50-150 %*			*"*				
LCS (9051287-BS2)		Prepared: 05/26/19 10:00		Analyzed: 05/26/19 11:25								
NWTPH-Gx (MS)												
Gasoline Range Organics	23.8	---	5.00	mg/kg wet	50	25.0	---	95	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*91 %*		*50-150 %*			*"*				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051298 - EPA 5035A							**Soil**					
Blank (9051298-BLK1)		Prepared: 05/28/19 09:30		Analyzed: 05/28/19 12:43								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 105 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*89 %*		*50-150 %*			*"*					
LCS (9051298-BS1)		Prepared: 05/28/19 09:30		Analyzed: 05/28/19 11:22								
NWTPH-Gx (MS)												
Gasoline Range Organics	24.9	---	5.00	mg/kg wet	50	25.0	---	99	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*89 %*		*50-150 %*			*"*					
Duplicate (9051298-DUP1)		Prepared: 05/23/19 08:35		Analyzed: 05/28/19 17:17								
QC Source Sample: ESW02-08 (A9E0803-09)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.67	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*88 %*		*50-150 %*			*"*					
Duplicate (9051298-DUP2)		Prepared: 05/23/19 13:40		Analyzed: 05/28/19 18:39								
QC Source Sample: B03-13 (A9E0803-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	**3600**	---	114	mg/kg dry	1000	---	2780	---	---	26	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 159 %*		*Limits: 50-150 %*			*Dilution: 1x*					S-02
1,4-Difluorobenzene (Sur)		*103 %*		*50-150 %*			*"*					

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Lisa Domenighini, Client Services Manager

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051340 - EPA 5035A							Soil					
Blank (9051340-BLK1)		Prepared: 05/29/19 09:00		Analyzed: 05/29/19 11:33								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 92 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*89 %*		*50-150 %*		*"*					
LCS (9051340-BS2)		Prepared: 05/29/19 09:00		Analyzed: 05/29/19 11:06								
NWTPH-Gx (MS)												
Gasoline Range Organics	25.5	---	5.00	mg/kg wet	50	25.0	---	102	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 92 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*92 %*		*50-150 %*		*"*					

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051287 - EPA 5035A							**Soil**					
Blank (9051287-BLK1)		Prepared: 05/26/19 10:00 Analyzed: 05/26/19 11:52										
5035A/8260C												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*104 %*		*80-120 %*			*"*					
LCS (9051287-BS1)		Prepared: 05/26/19 10:00 Analyzed: 05/26/19 10:57										
5035A/8260C												
Benzene	0.943	---	0.0100	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
Toluene	0.902	---	0.0500	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
Ethylbenzene	0.963	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Xylenes, total	3.06	---	0.0750	mg/kg wet	50	3.00	---	102	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*95 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*105 %*		*80-120 %*			*"*					

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EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051298 - EPA 5035A												**Soil**
Blank (9051298-BLK1)		Prepared: 05/28/19 09:30 Analyzed: 05/28/19 12:43										
5035A/8260C												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 101 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*95 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*105 %*		*80-120 %*			*"*					
LCS (9051298-BS2)		Prepared: 05/28/19 09:30 Analyzed: 05/28/19 11:49										
5035A/8260C												
Benzene	0.975	---	0.0100	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Toluene	0.968	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Ethylbenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
Xylenes, total	3.19	---	0.0750	mg/kg wet	50	3.00	---	106	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*104 %*		*80-120 %*			*"*					
Duplicate (9051298-DUP1)		Prepared: 05/23/19 08:35 Analyzed: 05/28/19 17:17										
QC Source Sample: ESW02-08 (A9E0803-09)												
5035A/8260C												
Benzene	ND	---	0.0103	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0516	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0258	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.0774	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*104 %*		*80-120 %*			*"*					
Duplicate (9051298-DUP2)		Prepared: 05/23/19 13:40 Analyzed: 05/28/19 18:39										
QC Source Sample: B03-13 (A9E0803-11)												
5035A/8260C												

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051298 - EPA 5035A							**Soil**					
Duplicate (9051298-DUP2)		Prepared: 05/23/19 13:40		Analyzed: 05/28/19 18:39								
QC Source Sample: B03-13 (A9E0803-11)												
Benzene	**2.92**	---	0.227	mg/kg dry	1000	---	3.16	---	---	8	30%	
Toluene	ND	---	1.14	mg/kg dry	1000	---	0.568	---	---	***	**30%**	Q-04
Ethylbenzene	**1.33**	---	0.568	mg/kg dry	1000	---	1.46	---	---	10	30%	
Xylenes, total	**28.7**	---	1.70	mg/kg dry	1000	---	34.6	---	---	18	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 104 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*92 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*104 %*		*80-120 %*			*"*					
Matrix Spike (9051298-MS1)		Prepared: 05/23/19 14:00		Analyzed: 05/28/19 20:54								
QC Source Sample: NW Corner01-08 (A9E0803-15)												
5035A/8260C												
Benzene	0.984	---	0.00998	mg/kg dry	50	0.997	ND	99	77 - 121%	---	---	
Toluene	1.04	---	0.0499	mg/kg dry	50	0.997	0.102	94	77 - 121%	---	---	
Ethylbenzene	1.18	---	0.0250	mg/kg dry	50	0.997	0.177	101	76 - 122%	---	---	
Xylenes, total	5.73	---	0.0749	mg/kg dry	50	2.99	2.44	110	78 - 124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 98 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*80-120 %*			*"*					

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Tigard, OR 97223
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EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051340 - EPA 5035A							**Soil**					
Blank (9051340-BLK1)		Prepared: 05/29/19 09:00 Analyzed: 05/29/19 11:33										
5035A/8260C												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*101 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*101 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*104 %*		*80-120 %*			*"*				
LCS (9051340-BS1)		Prepared: 05/29/19 09:00 Analyzed: 05/29/19 10:39										
5035A/8260C												
Benzene	0.937	---	0.0100	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
Toluene	0.914	---	0.0500	mg/kg wet	50	1.00	---	91	80 - 120%	---	---	
Ethylbenzene	0.932	---	0.0250	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
Xylenes, total	2.95	---	0.0750	mg/kg wet	50	3.00	---	98	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*100 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051241 - Total Solids (Dry Weight)							**Soil**					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9051297 - Total Solids (Dry Weight)							**Soil**					
Duplicate (9051297-DUP3)		Prepared: 05/28/19 09:07		Analyzed: 05/29/19 08:10								
QC Source Sample: WSW02-08 (A9E0803-07)												
EPA 8000C												
% Solids	**85.7**	---	1.00	% by Weight	1	---	84.0	---	---	2	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9051272							
A9E0803-06RE1	Soil	NWTPH-Dx	05/22/19 14:15	05/24/19 13:36	10.41g/5mL	10g/5mL	0.96
Batch: 9051315							
A9E0803-01	Soil	NWTPH-Dx	05/22/19 13:50	05/28/19 13:05	10.95g/5mL	10g/5mL	0.91
A9E0803-02RE1	Soil	NWTPH-Dx	05/22/19 13:55	05/28/19 13:05	10.6g/5mL	10g/5mL	0.94
A9E0803-03	Soil	NWTPH-Dx	05/22/19 14:00	05/28/19 13:05	10.18g/5mL	10g/5mL	0.98
A9E0803-04	Soil	NWTPH-Dx	05/22/19 14:05	05/28/19 13:05	10.53g/5mL	10g/5mL	0.95
A9E0803-05	Soil	NWTPH-Dx	05/22/19 14:10	05/28/19 13:05	10.16g/5mL	10g/5mL	0.98
A9E0803-07RE1	Soil	NWTPH-Dx	05/23/19 08:25	05/28/19 13:05	11.15g/5mL	10g/5mL	0.90
A9E0803-08RE1	Soil	NWTPH-Dx	05/23/19 08:30	05/28/19 13:05	10.2g/5mL	10g/5mL	0.98
A9E0803-09	Soil	NWTPH-Dx	05/23/19 08:35	05/28/19 13:05	11.46g/5mL	10g/5mL	0.87
A9E0803-10	Soil	NWTPH-Dx	05/23/19 13:35	05/28/19 13:05	10.09g/5mL	10g/5mL	0.99
A9E0803-11	Soil	NWTPH-Dx	05/23/19 13:40	05/28/19 13:05	11.29g/5mL	10g/5mL	0.89
A9E0803-12	Soil	NWTPH-Dx	05/23/19 13:45	05/28/19 13:05	10.47g/5mL	10g/5mL	0.96
A9E0803-13	Soil	NWTPH-Dx	05/23/19 13:50	05/28/19 13:05	10.19g/5mL	10g/5mL	0.98
A9E0803-14	Soil	NWTPH-Dx	05/23/19 13:55	05/28/19 13:05	10.14g/5mL	10g/5mL	0.99
A9E0803-15	Soil	NWTPH-Dx	05/23/19 14:00	05/28/19 13:05	10.43g/5mL	10g/5mL	0.96

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9051287							
A9E0803-04	Soil	NWTPH-Gx (MS)	05/22/19 14:05	05/22/19 14:05	5.3g/5mL	5g/5mL	0.94
A9E0803-05	Soil	NWTPH-Gx (MS)	05/22/19 14:10	05/22/19 14:10	6.07g/5mL	5g/5mL	0.82
A9E0803-06	Soil	NWTPH-Gx (MS)	05/22/19 14:15	05/22/19 14:15	6.14g/5mL	5g/5mL	0.81
Batch: 9051298							
A9E0803-01RE1	Soil	NWTPH-Gx (MS)	05/22/19 13:50	05/22/19 13:50	6.56g/5mL	5g/5mL	0.76
A9E0803-02RE1	Soil	NWTPH-Gx (MS)	05/22/19 13:55	05/22/19 13:55	5.68g/5mL	5g/5mL	0.88
A9E0803-03RE1	Soil	NWTPH-Gx (MS)	05/22/19 14:00	05/22/19 14:00	5.56g/5mL	5g/5mL	0.90
A9E0803-07RE1	Soil	NWTPH-Gx (MS)	05/23/19 08:25	05/23/19 08:25	5.27g/5mL	5g/5mL	0.95
A9E0803-08RE1	Soil	NWTPH-Gx (MS)	05/23/19 08:30	05/23/19 08:30	6.53g/5mL	5g/5mL	0.77
A9E0803-09	Soil	NWTPH-Gx (MS)	05/23/19 08:35	05/23/19 08:35	5.53g/5mL	5g/5mL	0.90
A9E0803-10	Soil	NWTPH-Gx (MS)	05/23/19 13:35	05/23/19 13:35	5.81g/5mL	5g/5mL	0.86
A9E0803-11	Soil	NWTPH-Gx (MS)	05/23/19 13:40	05/23/19 13:40	7.72g/5mL	5g/5mL	0.65
A9E0803-12	Soil	NWTPH-Gx (MS)	05/23/19 13:45	05/23/19 13:45	7.98g/5mL	5g/5mL	0.63

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9E0803-14	Soil	NWTPH-Gx (MS)	05/23/19 13:55	05/23/19 13:55	5.44g/5mL	5g/5mL	0.92
A9E0803-15	Soil	NWTPH-Gx (MS)	05/23/19 14:00	05/23/19 14:00	6.06g/5mL	5g/5mL	0.83
Batch: 9051340							
A9E0803-13RE1	Soil	NWTPH-Gx (MS)	05/23/19 13:50	05/23/19 13:50	6.75g/5mL	5g/5mL	0.74

BTEX Compounds by EPA 8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9051287							
A9E0803-01	Soil	5035A/8260C	05/22/19 13:50	05/22/19 13:50	6.56g/5mL	5g/5mL	0.76
A9E0803-02	Soil	5035A/8260C	05/22/19 13:55	05/22/19 13:55	5.68g/5mL	5g/5mL	0.88
A9E0803-04	Soil	5035A/8260C	05/22/19 14:05	05/22/19 14:05	5.3g/5mL	5g/5mL	0.94
A9E0803-05	Soil	5035A/8260C	05/22/19 14:10	05/22/19 14:10	6.07g/5mL	5g/5mL	0.82
A9E0803-06	Soil	5035A/8260C	05/22/19 14:15	05/22/19 14:15	6.14g/5mL	5g/5mL	0.81
A9E0803-07	Soil	5035A/8260C	05/23/19 08:25	05/23/19 08:25	5.27g/5mL	5g/5mL	0.95
A9E0803-08	Soil	5035A/8260C	05/23/19 08:30	05/23/19 08:30	6.53g/5mL	5g/5mL	0.77
Batch: 9051298							
A9E0803-01RE1	Soil	5035A/8260C	05/22/19 13:50	05/22/19 13:50	6.56g/5mL	5g/5mL	0.76
A9E0803-03RE1	Soil	5035A/8260C	05/22/19 14:00	05/22/19 14:00	5.56g/5mL	5g/5mL	0.90
A9E0803-07RE1	Soil	5035A/8260C	05/23/19 08:25	05/23/19 08:25	5.27g/5mL	5g/5mL	0.95
A9E0803-09	Soil	5035A/8260C	05/23/19 08:35	05/23/19 08:35	5.53g/5mL	5g/5mL	0.90
A9E0803-10	Soil	5035A/8260C	05/23/19 13:35	05/23/19 13:35	5.81g/5mL	5g/5mL	0.86
A9E0803-11	Soil	5035A/8260C	05/23/19 13:40	05/23/19 13:40	7.72g/5mL	5g/5mL	0.65
A9E0803-12	Soil	5035A/8260C	05/23/19 13:45	05/23/19 13:45	7.98g/5mL	5g/5mL	0.63
A9E0803-14	Soil	5035A/8260C	05/23/19 13:55	05/23/19 13:55	5.44g/5mL	5g/5mL	0.92
A9E0803-15	Soil	5035A/8260C	05/23/19 14:00	05/23/19 14:00	6.06g/5mL	5g/5mL	0.83
Batch: 9051340							
A9E0803-13RE1	Soil	5035A/8260C	05/23/19 13:50	05/23/19 13:50	6.75g/5mL	5g/5mL	0.74

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9051241							
A9E0803-06	Soil	EPA 8000C	05/22/19 14:15	05/24/19 20:02			NA

Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9051297							
A9E0803-01	Soil	EPA 8000C	05/22/19 13:50	05/28/19 09:07			NA
A9E0803-02	Soil	EPA 8000C	05/22/19 13:55	05/28/19 09:07			NA
A9E0803-03	Soil	EPA 8000C	05/22/19 14:00	05/28/19 09:07			NA
A9E0803-04	Soil	EPA 8000C	05/22/19 14:05	05/28/19 09:07			NA
A9E0803-05	Soil	EPA 8000C	05/22/19 14:10	05/28/19 09:07			NA
A9E0803-07	Soil	EPA 8000C	05/23/19 08:25	05/28/19 09:07			NA
A9E0803-08	Soil	EPA 8000C	05/23/19 08:30	05/28/19 09:07			NA
A9E0803-09	Soil	EPA 8000C	05/23/19 08:35	05/28/19 09:07			NA
A9E0803-10	Soil	EPA 8000C	05/23/19 13:35	05/28/19 09:07			NA
A9E0803-11	Soil	EPA 8000C	05/23/19 13:40	05/28/19 09:07			NA
A9E0803-12	Soil	EPA 8000C	05/23/19 13:45	05/28/19 09:07			NA
A9E0803-13	Soil	EPA 8000C	05/23/19 13:50	05/28/19 09:07			NA
A9E0803-14	Soil	EPA 8000C	05/23/19 13:55	05/28/19 09:07			NA
A9E0803-15	Soil	EPA 8000C	05/23/19 14:00	05/28/19 09:07			NA

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-15	Results for diesel are estimated due to overlap from the reported oil result.
F-16	Results for oil are estimated due to overlap from the reported diesel result.
F-19	Results are Estimated due to the presence of multiple fuel products.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-02	Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

Apex Laboratories

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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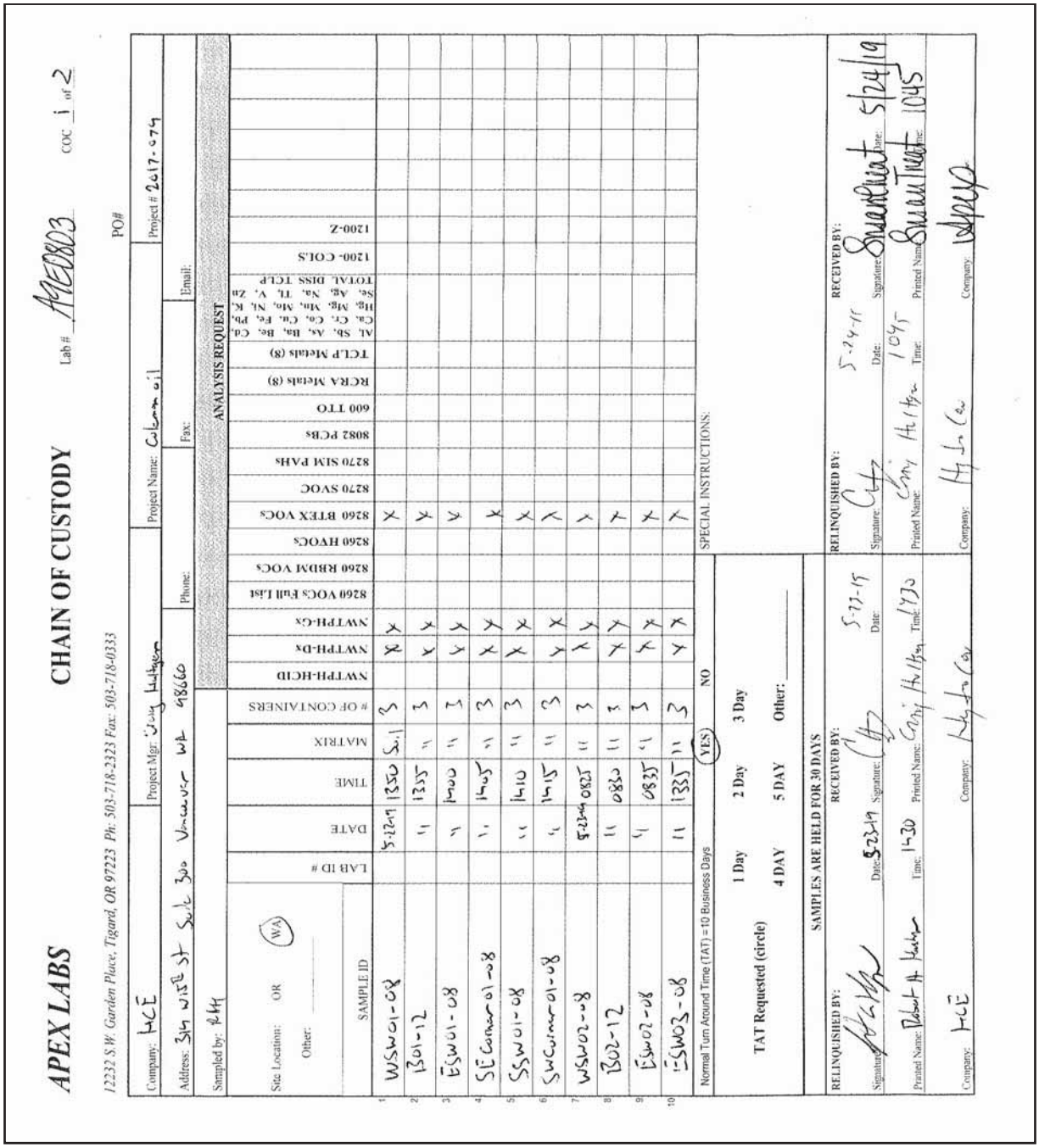
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**



APEX LABS

CHAIN OF CUSTODY

Lab # A9E0803 COC 1 of 2

PO#

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: HCE | Project Mgr: Craig Hultgren | Project Name: Coleman oil | Project # 2017-074

Address: 314 W 15th St Suite 300 Vancouver WA 98660 | Phone: | Fax: | Email:

Sampled by: RHH

Site Location: OR WA

Other: _____

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
							ANALYSIS REQUEST															
1	WSW01-05		5-22-19	1330	S.W.	3		X	X				X									
2	EB01-12		"	1335	"	3		X	X				X									
3	EBW01-05		"	1340	"	3		X	X				X									
4	SE Corner 01-05		"	1405	"	3		X	X				X									
5	SSW01-05		"	1415	"	3		X	X				X									
6	SW Corner 01-05		"	1425	"	3		X	X				X									
7	WSW02-05		5-23-19	0825	"	3		X	X				X									
8	EB02-12		"	0830	"	3		X	X				X									
9	EBW02-05		"	0835	"	3		X	X				X									
10	ESW02-05		"	1335	"	3		X	X				X									

Normal Turn Around Time (TAT) =10 Business Days (YES) NO

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Date: 5-23-19 Time: 1430

RECEIVED BY: Date: 5-23-19 Time: 1430

RELINQUISHED BY: Date: 5-24-19 Time: 1045

RECEIVED BY: Date: 5/24/19 Time: 1045

Company: HCE | Company: HCE | Company: HCE | Company: APEX

Apex Laboratories

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Lisa Domenighini

Lisa Domenighini, Client Services Manager

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9E0803 - 05 31 19 1302**

APEX LABS — CHAIN OF CUSTODY

Lab # A9E0803 COC 2 of 2

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

PO#

Company: See [illegible] | Project Mgr: | Project Name: Coleman oil | Project # 2017-074

Address: | Phone: | Fax: | Email:

Sampled by:

Site Location: OR (WA circled) Other:

ANALYSIS REQUEST

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z
1	B03-13		5-23-19	1340	Soil	3		X	X				X									
2	WSW03-08		"	1345	"	3		X	X				X									
3	NECorner01-08		"	1350	"	3		X	X				X									
4	NSW01-08		"	1355	"	3		X	X				X									
5	NWCorner01-08		"	1400	"	3		X	X				X									
6																						
7																						
8																						
9																						
10																						

Normal Turn Around Time (TAT) = 10 Business Days (YES circled) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ______

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 5-23-19	Signature: [signature] Date: 5/23/19	Signature: [signature] Date: 5-24-19	Signature: [signature] Date: 5/24/19
Printed Name: Robert A. Harding Time: 1430	Printed Name: Craig Hultgren Time: 1730	Printed Name: Craig Hultgren Time: 1045	Printed Name: [signature] Time: 1045
Company: NCE	Company: HydroCon	Company: HydroCon	Company: Apex

Apex Laboratories, LLC

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APEX LABS COOLER RECEIPT FORM

Client: Hydrocon Element WO#: A9 E0803

Project/Project #: Coleman Out / 2017-079

Delivery Info:

Date/time received: 5/24/19 @ 1045 By: 8

Delivered by: Apex ___ Client X ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 5/24/19 @ 1045 By: 8

Chain of Custody included? Yes X No ___ Custody seals? Yes ___ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.1						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	real						
Condition:	good						

Cooler out of temp? (Y/(N)) Possible reason why: ___

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

Samples Inspection: Date/time inspected: 5/24/19 @ 11:46 By: MM

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No ___ NA X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ___

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: ___

Additional information: ___

Labeled by: Witness: Cooler Inspected by: See Project Contact Form: Y

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
EPA ID: OR01039

Friday, June 28, 2019

Craig Hultgren
HydroCon LLC
314 W 15th Street Suite 300
Vancouver, WA 98660

RE: A9F0686 - Coleman Wenatchee - 2017-074

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9F0686, which was received by the laboratory on 6/21/2019 at 9:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	2.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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HydroCon LLC	Pro4ectj **Coleman Wenatchee**	
314 W 15th Street Suite 300	Pro4ect : Nmberj **2017-074**	**Report ID:**
Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP07-6	**A9F0686-01**	**Soil**	**06/20/19 14:30**	**06/21/19 09:30**
TP08-6	**A9F0686-02**	**Soil**	**06/20/19 14:50**	**06/21/19 09:30**

Apex Laboratories

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314 W 15th Street Suite 300	Pro4ect : Nmberj **2017-074**	**Report ID:**
Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

AnalRte	Sample 2esNt	Detection Limit	2eporting Limit	. nits	DilNion	Date AnalRLey	Methoy 2efd	: otes
TP07-6 (A9F0686-01)				**Matrix: Soil**		**Batch: 9061221**		
Diesel	: D	999	uOdz	mgT g yrR	1	zWu1TlHuuju-	: k 0P5 9Dx	
8 il	: D	999	Ozdz	mgT g yrR	1	zWu1TlHuuju-	: k 0P5 9Dx	
(urro) ate: o-Terphenyl 7(urr8		*Secogery: 110 %*		*Limits: 50-150 %*	*1*	*0/2912IR99:9v*	*NWTPH-Dx*	
TP08-6 (A9F0686-02)				**Matrix: Soil**		**Batch: 9061221**		
Diesel	: D	999	uOdz	mgT g yrR	1	zWu1TlHuuj6W	: k 0P5 9Dx	
8 il	: D	999	Ozdz	mgT g yrR	1	zWu1TlHuuj6W	: k 0P5 9Dx	
(urro) ate: o-Terphenyl 7(urr8		*Secogery: 119 %*		*Limits: 50-150 %*	*1*	*0/2912IR99:G*	*NWTPH-Dx*	

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HydroCon LLC	Pro4ectj **Coleman Wenatchee**	
314 W 15th Street Suite 300	Pro4ect : Nmberj **2017-074**	**Report ID:**
Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

AnalRte	Sample 2esNt	Detection Limit	2eporting Limit	. nits	DilNtion	Date AnalRLey	Methoy 2efd	: otes
TP07-6 (A9F0686-01)				**Matrix: Soil**		**Batch: 9061211**		
7asoline 2ange 8rganics	: D	999	6dHO	mgT g yrR	Oz	zWu1TlH1ujz3	: k 0P5 97x GMS(	
(urro)ate: G-, romofluorobenzene 7(ur8		*Secogery:*	*101 %*	*Limits:*	*50-150 %*	*1*	*0/2912IR19:0B*	*NWTPH-Mx 74(8*
16G-Difluorobenzene 7(ur8			*R5 %*		*50-150 %*	*1*	*0/2912IR19:0B*	*NWTPH-Mx 74(8*
TP08-6 (A9F0686-02)				**Matrix: Soil**		**Batch: 9061211**		
7asoline 2ange 8rganics	: D	999	6d5W	mgT g yrR	Oz	zWu1TlH1-jz6	: k 0P5 97x GMS(	
(urro)ate: G-, romofluorobenzene 7(ur8		*Secogery:*	*109 %*	*Limits:*	*50-150 %*	*1*	*0/2912IR1v:0G*	*NWTPH-Mx 74(8*
16G-Difluorobenzene 7(ur8			*R/ %*		*50-150 %*	*1*	*0/2912IR1v:0G*	*NWTPH-Mx 74(8*

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Lisa Domenighini, Client Services Manager

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Pro4ectj **Coleman Wenatchee**	
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Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

AnalRte	Sample 2esNt	Detection Limit	2eporting Limit	. nits	DilNion	Date AnalRLey	Methoy 2efd	: otes
TP07-6 (A9F0686-01)				**Matrix: Soil**		**Batch: 9061211**		
) enLene	: D	999	zdzzHBH	mgT g yrR	Oz	zWa1TlH1ujz3	Oz-OA'BuW¥C	
0olNene	: D	999	zdz6HO	mgT g yrR	Oz	zWa1TlH1ujz3	Oz-OA'BuW¥C	
BthRlbenLene	: D	999	zdzu6E	mgT g yrR	Oz	zWa1TlH1ujz3	Oz-OA'BuW¥C	
XRlenes, total	: D	999	zdzE6u	mgT g yrR	Oz	zWa1TlH1ujz3	Oz-OA'BuW¥C	
(urro) ate: 16G-Difluorobenzene 7(urr8		*Secogery:*	*100 %*	*Limits:*	*B0-190 %*	*1*	*0/2912IR19:0B*	*50v532B9/0A*
Toluene-dB 7(urr8			*RC%*		*B0-190 %*	*1*	*0/2912IR19:0B*	*50v532B9/0A*
G, romofluorobenzene 7(urr8			*100 %*		*B0-190 %*	*1*	*0/2912IR19:0B*	*50v532B9/0A*
TP08-6 (A9F0686-02)				**Matrix: Soil**		**Batch: 9061211**		
) enLene	: D	999	zdzz3Hu	mgT g yrR	Oz	zWa1TlH1-jz6	Oz-OA'BuW¥C	
0olNene	: D	999	zdz66W	mgT g yrR	Oz	zWa1TlH1-jz6	Oz-OA'BuW¥C	
BthRlbenLene	: D	999	zdzuu-	mgT g yrR	Oz	zWa1TlH1-jz6	Oz-OA'BuW¥C	
XRlenes, total	: D	999	zdzWWH	mgT g yrR	Oz	zWa1TlH1-jz6	Oz-OA'BuW¥C	
(urro) ate: 16G-Difluorobenzene 7(urr8		*Secogery:*	*101 %*	*Limits:*	*B0-190 %*	*1*	*0/2912IR1v:0G*	*50v532B9/0A*
Toluene-dB 7(urr8			*RC%*		*B0-190 %*	*1*	*0/2912IR1v:0G*	*50v532B9/0A*
G, romofluorobenzene 7(urr8			*RB%*		*B0-190 %*	*1*	*0/2912IR1v:0G*	*50v532B9/0A*

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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Tigard, OR 97223
503-718-2323
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

AnalRte	Sample 2esNt	Detection Limit	2eporting Limit	. nits	DilNtion	Date AnalRLey	Methoy 2efd	: otes
TP07-6 (A9F0686-01)				**Matrix: Soil**		**Batch: 9061242**		
% Solids	**94.9**	999	1dzz	Q bRk eight	1	zWn6'IHz3jzu	BPA 3zzzC	
TP08-6 (A9F0686-02)				**Matrix: Soil**		**Batch: 9061248**		
% Solids	**96.0**	999	1dzz	Q bRk eight	1	zWnOIIHz3j-3	BPA 3zzzC	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

AnalRte	2 esNlt	Detection Limit	2 eporting Limit	. nits	DilNtion	Spi/ e AmoNnt	SoNrce 2 esNlt	Q 2 BC	Q 2 BC Limits	2 PD	2 PD Limit	: otes
Batch 9061221 - EPA 3546 (Fuels)							**Soil**					
Blank (9061221-BLK1)		Prepareyj zWu1TlH11jz1		AnalRLeyj zWu1TlH1-jz6								
NWTPH-Dx												
Diesel	: D	999	uOdz	mgT/g %et	1	999	999	999	999	999	999	
8 il	: D	999	Ozdz	mgT/g %et	1	999	999	999	999	999	999	
(urr: o-Terphenyl 7(urr8		*Secogery: 101 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (9061221-BS1)		Prepareyj zWu1TlH11jz1		AnalRLeyj zWu1TlH1-juO								
NWTPH-Dx												
Diesel	1zH	999	uzdz	mgT/g %et	1	1uO	999	3E	EW9 11OQ	999	999	
(urr: o-Terphenyl 7(urr8		*Secogery: 100 %*		*Limits: 50-150 %*		*Dilution: 1x*						

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Tigard, OR 97223
503-718-2323
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

AnalRte	2 esNt	Detection Limit	2 eporting Limit	. nits	DilNtion	Spi/ e AmoNnt	SoNrce 2 esNt	Q 2 BC	Q 2 BC Limits	2 PD	2 PD Limit	: otes
Batch 9061211 - EPA 5035A							**Soil**					
Blank (9061211-BLK1)		Prepareyj zWu1TlHzHj-z		AnalRUeyj zWu1TlH11j61								
NWTPH-Gx (MS)												
7 asoline 2 ange 8 rganics	: D	999	-dl-	mgT g %et	Oz	999	999	999	999	999	999	
(urr: G, romofluorobenzene 7(ur8		*Secogery:*	*RB %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
16G-Difluorobenzene 7(ur8			*R/ %*		*50-150 %*			*"*				
LCS (9061211-BS2)		Prepareyj zWu1TlHzHj-z		AnalRUeyj zWu1TlH11j1-								
NWTPH-Gx (MS)												
7 asoline 2 ange 8 rganics	uWdW	999	Odzz	mgT g %et	Oz	uOdz	999	1zE	3z 91uzQ	999	999	
(urr: G, romofluorobenzene 7(ur8		*Secogery:*	*R/ %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
16G-Difluorobenzene 7(ur8			*RC%*		*50-150 %*			*"*				
Duplicate (9061211-DUP1)		Prepareyj zWuzTlH16j-z		AnalRUeyj zWu1TlH1uj-W								
QC Source Sample: TP07-6 (A9F0686-01)												
NWTPH-Gx (MS)												
7 asoline 2 ange 8 rganics	: D	999	-dl-	mgT g yrR	Oz	999	: D	999	999	999	-zQ	
(urr: G, romofluorobenzene 7(ur8		*Secogery:*	*101 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
16G-Difluorobenzene 7(ur8			*RC%*		*50-150 %*			*"*				

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

AnalRte	2esNt	Detection Limit	2eporting Limit	. nits	DilNtion	Spi/e AmoNnt	SoNrce 2esNt	Q2BC	Q2BC Limits	2PD	2PD Limit	:otes
Batch 9061211 - EPA 5035A							**Soil**					
Blank (9061211-BLK1)		Prepareyj zWa1TlHzHj-z		AnalRLeyj zWa1TlH11j61								
5035A/8260C												
)enLene	:D	999	zdzzWWE	mgTg%et	Oz	999	999	999	999	999	999	
0olNene	:D	999	zdz---	mgTg%et	Oz	999	999	999	999	999	999	
BthRlbenLene	:D	999	zdz1WE	mgTg%et	Oz	999	999	999	999	999	999	
XRlenes, total	:D	999	zdzOzz	mgTg%et	Oz	999	999	999	999	999	999	
(urr: 16G-Difluorobenzene 7(urr8		*Secogery:*	*101 %*	*Limits:*	*B0-190 %*		*Dilution:*	*1x*				
Toluene-dB 7(urr8			*RB %*		*B0-190 %*			*"*				
G-, romofluorobenzene 7(urr8			*RR %*		*B0-190 %*			*"*				
LCS (9061211-BS1)		Prepareyj zWa1TlHzHj-z		AnalRLeyj zWa1TlH1zj6O								
5035A/8260C												
)enLene	1dzH	999	zdz1zz	mgTg%et	Oz	1dzz	999	1zH	3z91uzQ	999	999	
0olNene	zd-Bu	999	zdzOzz	mgTg%et	Oz	1dzz	999	H3	3z91uzQ	999	999	
BthRlbenLene	zd-Bu	999	zdzuOz	mgTg%et	Oz	1dzz	999	H3	3z91uzQ	999	999	
XRlenes, total	-dz-	999	zdzEOz	mgTg%et	Oz	-dzz	999	1z1	3z91uzQ	999	999	
(urr: 16G-Difluorobenzene 7(urr8		*Secogery:*	*101 %*	*Limits:*	*B0-190 %*		*Dilution:*	*1x*				
Toluene-dB 7(urr8			*RB %*		*B0-190 %*			*"*				
G-, romofluorobenzene 7(urr8			*100 %*		*B0-190 %*			*"*				
Duplicate (9061211-DUP1)		Prepareyj zWazTlH16j-z		AnalRLeyj zWa1TlH1uj-W								
QC Source Sample: TP07-6 (A9F0686-01)												
5035A/8260C												
)enLene	:D	999	zdzzWiE	mgTg yrR	Oz	999	:D	999	999	999	-zQ	
0olNene	:D	999	zdz-1-	mgTg yrR	Oz	999	:D	999	999	999	-zQ	
BthRlbenLene	:D	999	zdz1CE	mgTg yrR	Oz	999	:D	999	999	999	-zQ	
XRlenes, total	:D	999	zdz6Ez	mgTg yrR	Oz	999	:D	999	999	999	-zQ	
(urr: 16G-Difluorobenzene 7(urr8		*Secogery:*	*101 %*	*Limits:*	*B0-190 %*		*Dilution:*	*1x*				
Toluene-dB 7(urr8			*RB %*		*B0-190 %*			*"*				
G-, romofluorobenzene 7(urr8			*100 %*		*B0-190 %*			*"*				

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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314 W 15th Street Suite 300	Pro4ect : Nmberj **2017-074**	**Report ID:**
Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

AnalRte	2 esNlt	Detection Limit	2 eporting Limit	. nits	DilNtion	Spi/ e AmoNnt	SoNrce 2 esNlt	Q 2 BC	Q 2 BC Limits	2 PD	2 PD Limit	: otes
Batch 9061242 - Total Solids (Dry Weight)				**Soil**								
: o Client relatey) atch wC samples anal RUey for this batchd See notes page for more informationd												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

AnalRte	2 esNlt	Detection Limit	2 eporting Limit	. nits	DilNtion	Spi/ e AmoNnt	SoNrce 2 esNlt	Q 2 BC	Q 2 BC Limits	2 PD	2 PD Limit	: otes
Batch 9061248 - Total Solids (Dry Weight)								Soil				
Duplicate (9061248-DUP1)		Prepareyj zWlu6TlHz3j-O		AnalRLeyj zWluOTlHz3j-3								
QC Source Sample: TP08-6 (A9F0686-02)												
EPA 8000C												
Q Soliys	**95.9**	999	1dzz	Q bRk eight	1	999	HWdz	999	999	zdz3	1zQ	

: o Client relatey) atch wC samples analRLey for this batchd See notes page for more informationd

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab : Nmber	Matrix	Methoy	Sampley	Preparey	Sample Initial/Final	DefaNt Initial/Final	2 L Prep Factor
Batch: 9061221							
AHFzW3W9z1	Soil	: k 0P5 9Dx	zWuzTlH16j-z	zWu1TlH1ujOE	1zdO-gTOmL	1zgTOmL	zdHO
AHFzW3W9zu	Soil	: k 0P5 9Dx	zWuzTlH16jOz	zWu1TlH1ujOE	1zdugTOmL	1zgTOmL	zdHB

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab : Nmber	Matrix	Methoy	Sampley	Preparey	Sample Initial/Final	DefaNt Initial/Final	2 L Prep Factor
Batch: 9061211							
AHFzW3W9z1	Soil	: k 0P5 97 x GMS(	zWuzTlH16j-z	zWuzTlH16j-z	OdW-gTOmL	OgTOmL	zd3H
AHFzW3W9zu	Soil	: k 0P5 97 x GMS(	zWuzTlH16jOz	zWuzTlH16jOz	Wd1-gTOmL	OgTOmL	zd3u

BTEX Compounds by EPA 8260C

Prep: EPA 5035A

Lab : Nmber	Matrix	Methoy	Sampley	Preparey	Sample Initial/Final	DefaNt Initial/Final	2 L Prep Factor
Batch: 9061211							
AHFzW3W9z1	Soil	Oz-OATBuWzC	zWuzTlH16j-z	zWuzTlH16j-z	OdW-gTOmL	OgTOmL	zd3H
AHFzW3W9zu	Soil	Oz-OATBuWzC	zWuzTlH16jOz	zWuzTlH16jOz	Wd1-gTOmL	OgTOmL	zd3u

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab : Nmber	Matrix	Methoy	Sampley	Preparey	Sample Initial/Final	DefaNt Initial/Final	2 L Prep Factor
Batch: 9061242							
AHFzW3W9z1	Soil	BPA 3zzzC	zWuzTlH16j-z	zWu1TlH13j6z			: A
Batch: 9061248							
AHFzW3W9zu	Soil	BPA 3zzzC	zWuzTlH16jOz	zWu6TlHz3j-O			: A

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DB0 AnalRte DB0 BC0 BD at or above the yetection or reporting limitd

: D AnalRte : 8 0 DB0 BC0 BD at or above the yetection or reporting limitd

: 2 2 esNt : ot 2 eporteyd

2 PD 2 elative Percent Differenced 2 PDs for Matrix Spi/ es any Matrix Spi/ e DNplicates are basey on concentration, not recoverRd

Detection Limits: Limit of Detection (LOD)

Limits of Detection GL8 Ds(are normallR set at a level of one half the valiyatey Limit of wNantitation GL8 w(d
If no valNe is listey Gqpppppq, then the yata has not been evalNatey belo% the 2 eporting Limitd

Reporting Limits: Limit of Quantitation (LOQ)

' aliyatey Limits of wNantitation GL8 ws(are reportey as the 2 eporting Limits for all analRses %here the L8 w, M2 L, PwL or C2 L are reVNesteyd0 he L8 w represents a level at or above the lo% point of the calibration cNrve, that has been valiyatey accorying to Apex Laboratoriesqcomprehensive L8 w policies any proceyNresd

Reporting Conventions:

) asisj 2 esNts for soil samples are generallR reportey on a 1zzQ yrR%eight basisd
0 he 2 esNt) asis is listey follo%ing the Nnits as " yrR", " %et", or " " Gblan/ (yesignationd

" yrR"	Sample resNts any 2 eporting Limits are reportey on a yrR%eight basisdGkded"NgT g yrR"(See Percent Soliys section for yetails of yrR%eight analRsisd
" %et"	Sample resNts any 2 eporting Limits for this analRsis are normallR yrR%eight correctey, bN have not been moyifiey in this cased
" "	2 esNts %ithoN c%etqor qyrRqyesignation are not normallR yrR%eight correcteyd0 hese resNts are consiyerey qAs 2 eceiveyqd

QC Source:

In cases %here there is insNfficient sample proviyey for Sample DNplicates anyTor Matrix Spi/ es, a Lab Control Sample DNplicate GLCS DNp(maR be analRLey to yemonstrate accNracR any precision of the extraction batchd

: on9Client) atch wC Samples GDNplicates any Matrix Spi/ eTDNplicates(are not inclNyey in this reportdPlease reVNest a FNl wC report if this yata is reVNreyd

Miscellaneous Notes:

" 999" wC resNts are not applicabledFor example, Q 2 ecoveries for) lan/ s any DNplicates, Q 2 PD for) lan/ s,) lan/ Spi/ es any Matrix Spi/ es, etcd

" *** " . sey to inyicate a possible yiscrepancR %ith the Sample any Sample DNplicate resNts %hen the Q 2 PD is not availabled In this case, either the Sample or the Sample DNplicate has a reportable resNt for this analRte, %hile the other is : on Detect G D(d

Blanks:

Stanyary practice is to evalNate the resNts from) lan/ wC Samples yo%n to a level eVNal to ½ the 2 eporting Limit G2 L(d
9For) lan/ hits falling bet%een ½ the 2 L any the 2 L G flaggey hits(, the associatey sample any wC yata %ill receive a ‘) 9zu’ VNalifierd
9For) lan/ hits above the 2 L, the associatey sample any wC yata %ill receive a ‘) ’ VNalifier, per Apex Laboratoriesq) lan/ PolicRd
For fNther yetails, please reVNest a copR of this yocNmentd

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample resNts flaggey %ith a q qor q 9zuqVNalifier are potentiallR biasey high if the sample resNts are less than ten times the level foNny in the blan/ for inorganic analRses, or less than five times the level foNny in the blan/ for organic analRsesd

‘) ’ any ‘) 9zu’ VNalifications are onlR appliey to sample resNts yetectey above the 2eporting Leveld

Preparation Notes:

Mixey Matrix Samplesj

k ater Samplesj

k ater samples containing significant amoNnts of seyiment are yecantey or separatey prior to extraction, any onlR the %ater portion analRLey, Nnless other%ise yirectey bR the clientd

Soil any Seyiment Samplesj

Soil any Seyiment samples containing significant amoNnts of %ater are yecantey prior to extraction, any onlR the soliy portion analRLey, Nnless other%ise yirectey bR the clientd

Sampling and Preservation Notes:

Certain regNatorR programs, sNch as : ational PollNant Discharge Blimination SRstem G PDBS(, reVNire that activities sNch as sample filtration Gfor yissolvey metals, orthophosphate, hexavalent chromiNm, etcd(any testing of short holy analRtes Gp5 , Dissolvey 8 xRgen, etcd(be performey in the fiely Gon9site(%ithin a short time %inyo%dIn ayyition, sample matrix spi/ es are reVNirey for some analRses, any sNfficient volNme mNst be proviyey, any billable site specific wC reVNestey, if this is reVNireydAll regNatorR permits shoNy be revie%ey to ensNre that these reVNirements are being metd

Data Nsers shoNy be a%are of %hich regNations pertain to the samples theR sNbmit for testingdIf relatey sample collection activities are not approvey for a particNar regNatorR program, resNts shoNy be consiyerey estimatesdApex Laboratories %ill VNalifR these analRtes accorying to the most stringent reVNirements, ho%ever resNts for samples that are for non9regNatorR pNrposes maR be acceptabled

Samples that have been filterey any preservey at Apex Laboratories per client reVNest are listey in the preparation section of the report %ith the yate any time of filtration listeyd

Apex Laboratories maintains yetailey recorys on sample receipt, inclNying client label verification, cooler temperatNre, sample preservation, holy time compliance any fiely filtrationdData is VNalifiey as necessarR, any the lac/ of VNalification inyicates compliance %ith reVNirey parametersd

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Pro4ectj **Coleman Wenatchee**	
314 W 15th Street Suite 300	Pro4ect : Nmberj **2017-074**	**Report ID:**
Vancouver, WA 98660	Pro4ect Managerj **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methoys any analRtes reportey from %or/ performey at Apex Laboratories are inclNyey on Apex Laboratories q8 2 BLAP Scope of Certification, %ith the exception of anR analRteG3(listey belo%j

Apex Laboratories

Matrix	AnalRsis	0: I_ID	AnalRte	0: I_ID	Accreyitation

All reportey analRtes are inclNyey in Apex LaboratoriesqcNrrent 8 2 BLAP scoped

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreyitation %ith non90: I states Ck ashington D8 B(, as %ell as other state specific accreyitations not listey hered

Subcontract Laboratory Accreditations

SNbcontractey yata falls oNtsiye of Apex LaboratoriesqScope of Accreyitationd
Please see the SNbcontract LaboratorR report for fNl yetails, or contact RoN- Pro4ect Manager for more informationd

Field Testing Parameters

2 esNts for Fiely 0estey yata are provyey bR the client or sampler, any fall oNtsiye of Apex LaboratoriesqScope of Accreyitationd

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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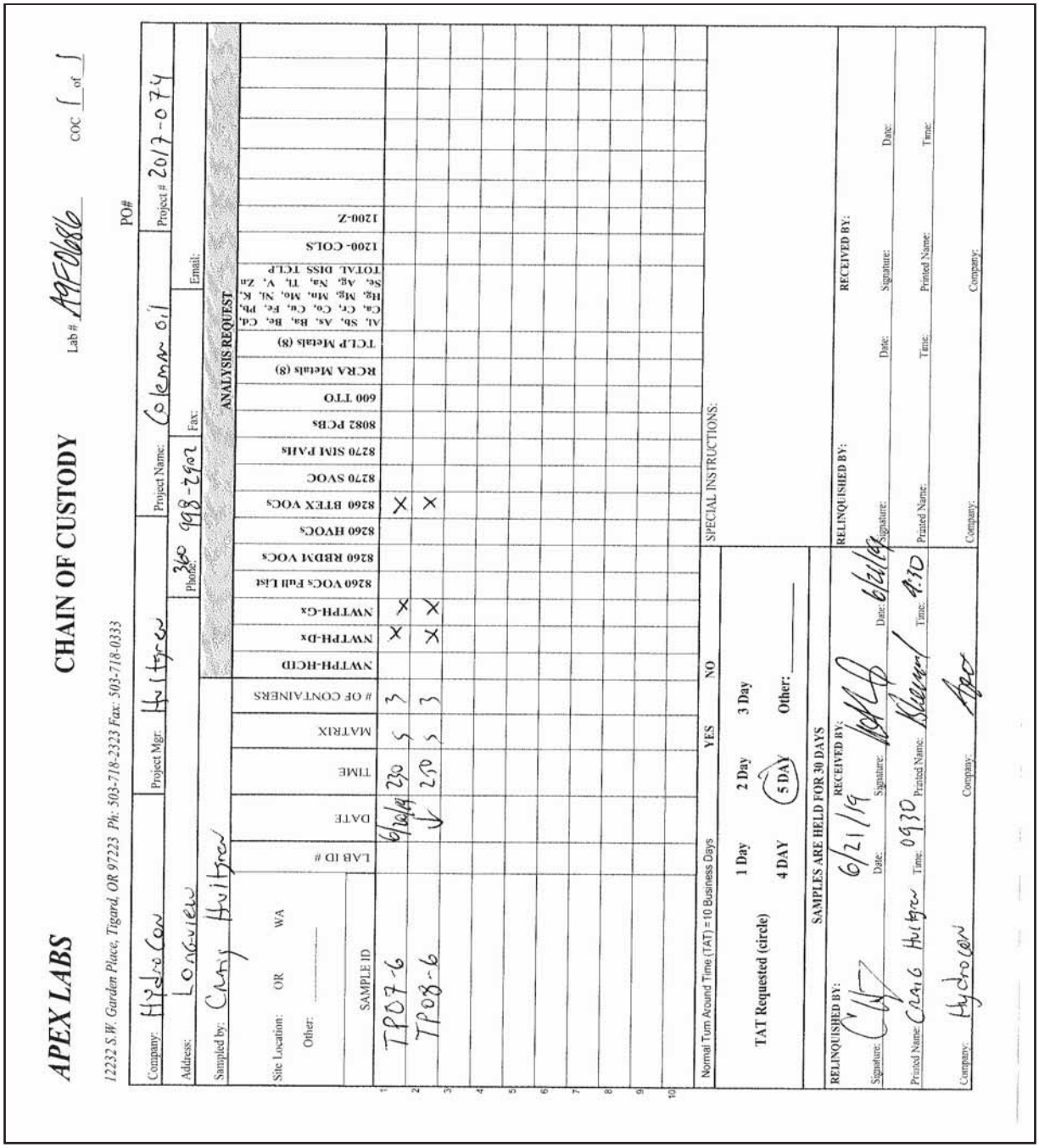

APEX LABS — **CHAIN OF CUSTODY** — Lab # A9F0686 — COC 1 of 1 — PO#

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: HydroCon — Project Mgr: Hultgren — Project Name: Coleman 0.1 — Project # 2017-074

Address: Longview — Phone: 360 998-2692 — Fax: — Email:

Sampled by: Craig Hultgren

Site Location: OR WA — Other: _____

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z
1 TP07-6		6/20/19	230	S	3		X	X				X									
2 TP08-6		↓	250	S	3		X	X				X									
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Normal Turn Around Time (TAT) = 10 Business Days — YES — NO

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day — 2 Day — 3 Day — 4 DAY — 5 DAY — Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: _____ Printed Name: _____ Company: _____

RECEIVED BY: Date: 6/21/19 Time: 0930 Signature: _____ Printed Name: Craig Hultgren Company: Hydrocon

RELINQUISHED BY: Date: 6/21/19 Time: 4:30 Signature: _____ Printed Name: _____ Company: _____

RECEIVED BY: Date: 6/21/19 Time: _____ Signature: _____ Printed Name: _____ Company: _____

Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9F0686 - 06 28 19 0853**

APEX LABS COOLER RECEIPT FORM

Client: Hydrocon Element WO#: A9 F0686

Project/Project #: Coleman Oil / 2017-074

Delivery Info:

Date/time received: 6/21/19 @ 9:30 By: KMS

Delivered by: Apex____Client X ESS____FedEx____UPS____Swift____Senvoy____SDS____Other____

Cooler Inspection Date/time inspected: 6/21/19 @ 9:30 By: KMS

Chain of Custody included? Yes X No ___ Custody seals? Yes____ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.6						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N Y on 6/21						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 6/21/19 @ 9:47 By: KMS

All samples intact? Yes X No ___ Comments:

Bottle labels/COCs agree? Yes X No ___ Comments:

COC/container discrepancies form initiated? Yes ___ No ___ NA X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments:

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X

Comments:

Additional information:

Labeled by: NJ Witness: CB Cooler Inspected by: KMS See Project Contact Form: Y

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

APPENDIX F

DATA QUALITY REVIEW

TO:	Craig Hultgren, HydroCon
FROM:	Manon Tanner-Dave
DATE:	July 18, 2019
SUBJECT:	Laboratory Validation Report

HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Soil Sampling	**Number of Samples:**	15
Laboratory Work Order:	A9E0803	**Final Report Date & Time:**	May 31, 2019

Analysis & Method

- ☒ Gasoline Range Hydrocarbon (NWTPH-Gx)
- ☒ Diesel Range Hydrocarbon without Silica Gel (NWTPH-Dx) ☐
- ☐ Diesel Range Organics with Silica Gel (NWTPH-DxSG)
- ☐ Volatile Organic Compounds (EPA 8260C)
- ☒ BTEX (EPA 8260C)
- ☐ Total Lead (EPA 6020A), Organic Lead and Manganese Speciation (GC/ECD)
- ☐ Sulfate (300.0)
- ☐ Other

Data Package Completeness:

Data package was complete.

EDD to Hardcopy Verification:

An EDD was not provided.

Technical Data Validation:

- ☒ Holding Times & Sample Receipt
- ☒ Surrogate Compounds
- ☒ Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ☒ Associated Laboratory Duplicate
- ☒ Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
- ☒ Method Blank
- ☐ Field Duplicates
- ☒ Target Analyte List
- ☒ Reporting Limits (MDL and MRL)
- ☒ Reported Results

Holding Times & Sample Receipt:

All holding times and sample receipt were acceptable.

Surrogate Compounds:

All surrogate percent recoveries (%R) were within laboratory limits, with the exceptions noted below:

Sample ID	Laboratory ID	Analysis	Surrogate %R	QC Limits	Qualifier/Comments
B01-12	A9E0803-02RE1	NWTPH-Dx	NA	50-150%	S-01: Surrogate recovery not applicable due to sample dilution >5x (20x DF).
SW Corner01-08	A9E0803-06RE1	NWTPH-Dx	NA	50-150%	S-01: Surrogate recovery not applicable due to sample dilution >5x (50x DF).
B03-13	A9E0803-11	NWTPH-Dx	NA	50-150%	S-01: Surrogate recovery not applicable due to sample dilution >5x (20x DF).

Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Matrix spikes were analyzed at the appropriate frequency and all %R were within the acceptance criteria.

Associated Laboratory Duplicate:

Laboratory duplicates were analyzed at the appropriate frequency and all %D were within the acceptance criteria.

Laboratory Control Sample/Laboratory Control Sample Duplicates:

LCS were analyzed at the appropriate frequency and all %R were within the acceptance criteria.

Method Blank:

Method blanks were analyzed at the appropriate frequency and were non-detect (ND) for all target analytes.

Field Duplicate(s):

Not applicable; field duplicates were not collected with this analytical batch.

Target Analyte List:

All requested analytes were present.

Reporting Limits (MDL and MRL):

Reporting limits were within the acceptance criteria, with the following exceptions noted below:

Select samples had elevated MRLs due to sample dilution as a result of high analyte concentrations or matrix interference issues. Results were reported from the dilution analyses, as applicable.

Reported Results:

All reported results are acceptable.

Laboratory qualifiers for NWTPH-Dx:

- (F-15) Results for diesel are estimated due to overlap from the reported oil result.
    - J/UJ-Mi qualify affected results.
- (F-16) Results for oil are estimated due to overlap from the reported diesel result.
    - J/UJ-Mi qualify affected results.
- (F-19) Results are estimated due to the presence of multiple fuel products.
    - J/UJ-Mi qualify affected results.

Lab Validation Assessment

Analytical results are usable to meet the project objectives.

Data Quality Review Statement for Report

Aside from the data quality issues discussed above, the data quality review identified no concerns with respect to the quality or usability of the data presented herein.

Appendix A. Data Validation Qualifiers and Definitions

The following lists the data validation qualifier codes and their definitions that were assigned to analytical results in this data validation review process.

Data Validation Qualifiers and Definitions:

☐ (R) The sample result is reject due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

☐ (DNR) Do not report. A more appropriate result is reported from another analysis or dilution.

Appendix B. Data Validation Qualified Summary Table

Laboratory qualifiers:

- (F-15) Results for diesel are estimated due to overlap from the reported oil result.
- (F-16) Results for oil are estimated due to overlap from the reported diesel result.
- (F-19) Results are estimated due to the presence of multiple fuel products.

Validation qualifiers:

- (J) The result is an estimated quantity.

Reason codes:

- Mi = Matrix interference.

Appendix B. Validator Qualified Data Summary Table

Sample ID	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
WSW01-08	A9E0803-01	NWTPH-Dx	Diesel	1,330	mg/kg dry	F-19	J	Mi
WSW01-08	A9E0803-01	NWTPH-Dx	Oil	443	mg/kg dry	F-16	J	Mi
WSW02-08	A9E0803-07RE1	NWTPH-Dx	Diesel	2,850	mg/kg dry	F-15	J	Mi
WSW02-08	A9E0803-07RE1	NWTPH-Dx	Oil	466	mg/kg dry	F-16	J	Mi
ESW03-08	A9E0803-10	NWTPH-Dx	Diesel	171	mg/kg dry	F-15	J	Mi
ESW03-08	A9E0803-10	NWTPH-Dx	Oil	693	mg/kg dry	F-16	J	Mi
NE Corner01-08	A9E0803-13	NWTPH-Dx	Diesel	120	mg/kg dry	F-15	J	Mi
NE Corner01-08	A9E0803-13	NWTPH-Dx	Oil	346	mg/kg dry	F-16	J	Mi
NW Corner01-08	A9E0803-15	NWTPH-Dx	Diesel	282	mg/kg dry	F-19	J	Mi
NW Corner01-08	A9E0803-15	NWTPH-Dx	Oil	197	mg/kg dry	F-16	J	Mi

TO:	Craig Hultgren, HydroCon
FROM:	Manon Tanner-Dave
DATE:	July 18, 2019
SUBJECT:	Laboratory Validation Report

HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Soil Sampling	**Number of Samples:**	2
Laboratory Work Order:	A9F0686	**Final Report Date & Time:**	June 28, 2019

Analysis & Method

- ☒ Gasoline Range Hydrocarbon (NWTPH-Gx)
- ☒ Diesel Range Hydrocarbon without Silica Gel (NWTPH-Dx) ☐
- ☐ Diesel Range Organics with Silica Gel (NWTPH-DxSG)
- ☐ Volatile Organic Compounds (EPA 8260C)
- ☒ BTEX (EPA 8260C)
- ☐ Total Lead (EPA 6020A), Organic Lead and Manganese Speciation (GC/ECD)
- ☐ Sulfate (300.0)
- ☐ Other

Data Package Completeness:

Data package was complete.

EDD to Hardcopy Verification:

An EDD was not provided.

Technical Data Validation:

- ☒ Holding Times & Sample Receipt
- ☒ Surrogate Compounds
- ☐ Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ☒ Associated Laboratory Duplicate
- ☒ Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
- ☒ Method Blank
- ☐ Field Duplicates
- ☒ Target Analyte List
- ☒ Reporting Limits (MDL and MRL)
- ☒ Reported Results

Holding Times & Sample Receipt:

All holding times and sample receipt were acceptable.

Surrogate Compounds:

All surrogate percent recoveries (%R) were within laboratory limits.

Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Not applicable; matrix spike samples were not analyzed with the analytical batch.

Associated Laboratory Duplicate:

Laboratory duplicates were analyzed at the appropriate frequency and all %D were within the acceptance criteria.

Laboratory Control Sample/Laboratory Control Sample Duplicates:

LCS were analyzed at the appropriate frequency and all %R were within the acceptance criteria.

Method Blank:

Method blanks were analyzed at the appropriate frequency and were non-detect (ND) for all target analytes.

Field Duplicate(s):

Not applicable; field duplicates were not collected with this analytical batch.

Target Analyte List:

All requested analytes were present.

Reporting Limits (MDL and MRL):

Reporting limits were within the acceptance criteria.

Reported Results:

All reported results are acceptable.

Lab Validation Assessment

Analytical results are usable to meet the project objectives.

Data Quality Review Statement for Report

Aside from the data quality issues discussed above, the data quality review identified no concerns with respect to the quality or usability of the data presented herein.

Appendix A. Data Validation Qualifiers and Definitions

The following lists the data validation qualifier codes and their definitions that were assigned to analytical results in this data validation review process.

Data Validation Qualifiers and Definitions:

☐ (R) The sample result is reject due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

☐ (DNR) Do not report. A more appropriate result is reported from another analysis or dilution.

Appendix B. Data Validation Qualified Summary Table

Not applicable; no qualifiers were assigned to the analytical results.