

SRI Addendum - Uplands Soil Characterization Report

Coleman Oil Company Facility
3 East Chehalis Street
Wenatchee, Washington

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

March 6, 2019

Prepared by:



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

SRI Addendum - Uplands Soil Characterization Report

**Coleman Oil Company Facility
3 East Chehalis Street
Wenatchee, Washington**

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

HydroCon Project No: 2017-074

Prepared by:

A handwritten signature in black ink, appearing to read "Nick Varnum".

Nick Varnum, LHG
Senior Geologist

Reviewed by:

Craig Hultgren, LHG
Principal Geologist

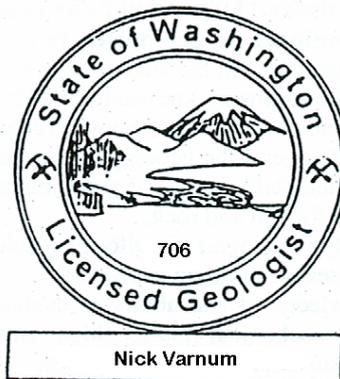


Table of Contents

1.0 INTRODUCTION	1
2.0 BACKGROUND INFORMATION	2
2.1 Site Description	2
2.2 Site History	2
2.3 Remedial Measures	2
2.4 Geologic & Hydrogeologic Setting	3
2.5 Purpose and Scope	4
2.6 Objectives and Approach	4
2.7 Planning and Permitting	5
2.7.1 Permits	5
2.7.2 Health and Safety Plan	5
2.7.3 Underground Utility Locates	5
2.8 Demolition of the Control Valve Building	6
3.0 FIELDWORK	7
3.1 Exploratory Test Pits	7
3.2 Temporary Soil Borings	7
3.3 Field Screening	8
3.4 Soil Sampling	8
3.5 Deepening BH-1	8
3.6 Well Development	9
3.7 Decontamination Procedures	9
3.8 Surveying	9
3.9 Management of Investigation Derived Waste	10
4.0 RESULTS OF INVESTIGATION	11
4.1 Subsurface Conditions	11
4.1.1 Refinement of Geologic Interpretation in Uplands Area	11
4.2 Field Screening Results	12
4.3 Soil Analytical Results	13
4.3.1 Test Pits	13
4.3.2 Temporary Borings	14
4.3.3 Monitoring Well BH01R	16
4.4 Data Quality Review	16
5.0 DISCUSSION	17
5.1 Sources of Petroleum Hydrocarbon Contamination Other Than R99 in the Uplands Area	17



5.1.1	2010 Gasoline Release	18
5.1.2	2013 Gasoline Release	18
5.1.3	Drum Spill	19
5.2	Extent of Soil Contamination	19
5.3	Remedial Options.....	20
6.0	QUALIFICATIONS	21
7.0	REFERENCES	22

Figures

Figure 1 – Site Location Map

Figure 2 – Site Features

Figure 3 – Cross Section Locations Boring and

Figure 4 – Cross Section C-C’

Figure 5 – Top of Chumstick Formation

Figure 6 – Test Pit and Temporary Boring Locations and Soil Analytical Results

Tables

Table 1 – Well Construction Details

Table 2 – Test Pit and Temporary Boring Analytical Results - Fuels and BTEX

Appendices

A - Photographs

B – Boring and Test Pit Logs

C – Well Development Form

D – Laboratory Reports and Chain-of-Custody Documentation

E – Data Quality Review Reports

Acronyms

AIA	Additional Interim Action
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
COC	Chemical of Concern
Coleman Oil	Coleman Oil Company
CUL	cleanup level
CVB	Control Valve Building
DRPH	diesel range petroleum hydrocarbons
Ecology	Washington Department of Ecology
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane
EPA	Environmental Protection Agency
gpm	gallons per minute
GRPH	gasoline range petroleum hydrocarbons
HydroCon	HydroCon Environmental LLC
µg/L	micrograms per liter
mg/Kg	milligrams per Kilogram
LCS/LCSD	Laboratory Control Sample/ Laboratory Control Sample Duplicates
LNAPL	light nonaqueous-phase liquid
MDL	method detection limit
MRL	method reporting limit
MTCA	Model Toxics Control Act
ORPH	oil range petroleum hydrocarbons
OWS	oil water separator
PID	photoionization detector
SAP	Sampling and Analysis Plan
R99	R99 Renewable Diesel

1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this report on behalf of Coleman Oil Company (Coleman Oil) to characterize the nature and extent of soil contamination near monitoring well MW13 that was discovered during subsurface investigations related to the Supplemental Remedial Investigation (SRI) performed at the site. This contamination is a separate issue than the R99 Renewable Diesel (R99) release and requires further characterization to identify the source and the extent of subsurface impact.

This addendum 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.

HydroCon prepared an SRI Addendum - Additional Upland Soil and River Sediment Characterization Work Plan dated December 12, 2018 (HydroCon 2018e) to assess the source and the nature and extent of soil contamination near MW13 and further assess the extent of diesel contamination in Columbia River sediment in the observed Sheen Discharge Area. Supporting documentation is found in the attachments to the SRI Work Plan (HydroCon 2018a) and includes Standard Operating Procedures (SOPs) and field forms that will be used during the investigation.

Due to safety concerns for performing the sediment sampling (e.g., winter weather, road and river conditions), the soil investigation was performed independently of the sediment work. This report documents the results of the uplands soil characterization work.

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 SRI Work Plan (HydroCon 2018a) and the Draft 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 has been in operation as a bulk fuel facility since 1921. Coleman Services IV, LLC purchased the property in January 2007 and Coleman Oil has operated the facility since that time.

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.

2.3 Remedial Measures

Several remedial measures have taken place at the site since the discovery of the release.

- Pads and booms have been placed on the Columbia River in the observed sheen discharge area to recover product since discovery of the release. This practice continues today.

- From April 12, 2017 to June 19, 2017 a remedial excavation was performed on the Coleman Oil facility near the point of the R99 release. Approximately 741 tons of petroleum contaminated soil was removed for offsite disposal.
- Sumps were placed in the remedial excavation backfill. Pumps were placed in the sumps to recover product and maintain a cone of depression to minimize product migration. Effluent from the sumps was routed to an oil/water separator and settling tanks prior to treatment using granular activated carbon (GAC). The treated water was disposed under permit into the City of Wenatchee's sanitary sewer system.
- Prior to this investigation a total of 38 monitoring and recovery wells (MW-1 through MW32, MW01S, MW03S, BH-1 through BH-3, and RW-1) have been installed at the site. Product recovery via skimming using a peristaltic pump and new tubing and/or passive recovery using hydrophobic socks is ongoing.
- Product recovery pumps have been installed in 9 wells with persistent measurable LNAPL or high concentrations of DRPH in soil and/or groundwater (MW09R, MW10R, MW17, MW24, MW28, MW29, MW30, MW32, and BH-1). These wells are connected with underground piping for pressurized air to operate the pumps, conduit for electrical control and effluent piping to collect the recovered groundwater and product. The modified remediation system now consists of three separate zones that pump LNAPL and contaminated groundwater into an associated OWS. These zones include the MW09R zone (MW09R, MW17, and MW32); the MW10R zone (W10R, MW24, and MW28); and the BH-1 zone (BH-1, MW29, and MW30). The expanded remediation system began pumping on November 2, 2018.

As of early June 2018, a total of 413.2 gallons of R99 had been recovered in liquid form, and an additional estimated 1984 gallons recovered through soil excavation. (HydroCon 2018f).

2.4 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 a previous remedial excavation (Farallon 2017) 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.

2.5 Purpose and Scope

Results of the SRI have revealed that a source of contamination other than R99 is present at the Site near monitoring well MW13 with elevated concentrations of GRPH, DRPH, and benzene above their respective MTCA Method A cleanup level in both soil and groundwater. The source of the contamination is unknown. Monitoring well MW13 is located north of the Control Valve Building and within the footprint of the former Tank Farm B. In addition, two sediment samples collected in the observed Sheen Discharge Area (SS01 and SS02) have DRPH concentrations that exceed the Sediment Cleanup Objective (SCO) of 340 mg/kg. Ecology has requested that the lateral and vertical extent of the DRPH be defined near these sampling locations.

Due to safety concerns for performing the sediment sampling (e.g., winter weather, road and river conditions), the soil investigation was performed independently of the sediment work. This report documents the results of the uplands soil characterization work.

2.6 Objectives and Approach

This Addendum describes field work to advance exploratory test pits and temporary soil borings in the vicinity of monitoring well MW13, sample collections and laboratory analytical results for those samples. As stated above, this report documents the soil characterization portion of the SRI Addendum. Further characterization of Columbia River sediments in the observed sheen discharge area will be done later this year as part of the SRI addendum and will be reported under a separate cover.

During previous sampling events, elevated concentration of GRPH and benzene were detected in soil and groundwater samples near MW13. The well is located within the footprint of the former Tank Farm B and adjacent to (north) and down-gradient of the Control Valve Building that housed pumps used to load fuel into the storage tanks. As identified in the SRI Report (HydroCon 2018b), further investigation in this area is necessary to assess the nature and extent of the GRPH/DRPH/benzene impacts to the subsurface. Even though each borings

described in this addendum was advanced to bedrock, this investigation primarily focused on the extent of contamination within the vadose zone to identify the source(s) and assist in remedy selection.

Also, as part of the field work, but not related to the uplands investigation, monitoring well BH-1 was deepened and constructed with a larger diameter monitoring well to enhance the ability to extract petroleum contaminated groundwater and LNAPL (if present) in this area of the site.

2.7 Planning and Permitting

This section describes the coordination and implementation of the fieldwork performed during the SRI Addendum Uplands Soil Characterization portion of the Investigation. Work was performed in general accordance to the approved SRI Addendum - Additional Upland Soil and River Sediment Characterization Work Plan (HydroCon 2018e) and SRI SAP and QAPP (HydroCon 2018a).

2.7.1 Permits

No permits were necessary for the collection of soil samples from temporary borings or exploratory test pits at the Site.

2.7.2 Health and Safety Plan

HydroCon updated the site specific health and safety plan (HASP) to govern health and safety protocols used during this investigation. Work was performed using Occupational Safety and Health Administration (OSHA) Level D work attire consisting of hard hats, safety glasses, hearing protection, protective gloves, and protective boots.

2.7.3 Underground Utility Locates

Prior to the commencement of the subsurface activities, a public utility notification was requested through the Washington One Call Service. Locate ticket number 18517129 was refreshed with ticket number 18453939. Utilities Plus (private contractor) provided on site clearance of boreholes and exploratory test pits on January 7, 2019.

2.8 Demolition of the Control Valve Building

On January 7 2019, the Control Valve Building (CVB) was demolished by Clarke Construction utilizing heavy equipment (John Deere 130G trackhoe). All piping, pumps, containment structures, etc. in the CVB were removed from the site. The pumps were retained for future use. All other solid waste generated during the demolition was disposed at the Wenatchee Regional landfill.

Prior to demolition the area inside the CVB was inspected. The pumps had been removed prior to the arrival of the demolition crew and all stored remediation system materials were moved to a new location onsite. The demolition crew reported that the concrete pad was stained in various locations across the entire pad and left over absorbent material was observed on or near the areas where staining was observed. The concrete floor was in good to fair condition. However, the pads that the pumps were mounted on appeared to be precast and placed on an existing slab. The seams were not sealed to the existing slab. Joints approximately ¼-inch in width were filled with sand and/or fine grit. Any liquid spilled in this building had the potential to migrate to the subsurface through these joints.

3.0 FIELDWORK

This section documents the field work performed during the characterization of uplands soil near MW13.

3.1 *Exploratory Test Pits*

At the completion of demolition of the CVB, HydroCon utilized Clarke Construction to excavate 6 exploratory test pits (TP01 through TP06) to assess shallow soil quality near the former building. Photographs of the test pits advanced under the former CVB are included in Appendix A. HydroCon utilized field screening methods described in greater detail in Section 4.2 to assess the extent of shallow soil contamination. A John Deere 130G trackhoe was used to excavate the test pits down to an intended 4 feet below ground surface (bgs). However, two of the test pits (TP05 and TP06) encountered a large boulder and were terminated at 2 feet bgs.

Soil samples were collected at approximate 2 foot intervals and examined for lithologic composition and field screening parameters. Soil samples were placed into laboratory prepared glass jars and then placed into an ice filled cooler. Selected soil samples were submitted for laboratory analysis. Information collected during the exploratory test pitting was placed on the attached Test Pit logs (Appendix B).

3.2 *Temporary Soil Borings*

On January 8-10, 2019, HydroCon directed the advancement of 10 temporary soil borings (HC03 through HC12) using the Sonic drilling method described in the SAP attached to the SRI Work Plan (HydroCon 2018a). Each temporary boring was advanced to bedrock (Chumstick Formation).

The sonic drilling method was selected due to the presence of cobbles and large boulders in the shallow soil underlying the site. The drilling was accomplished by advancing a hollow drill rod for the first 10 feet, followed by advancing an override casing over the drill cuttings. A sonic casing was then driven to override the core barrel, resulting in a continuously cased borehole. Soil within the core barrel was then extruded in a new plastic sleeve which was observed by the geologist. This process was repeated to the target depth of the soil boring. Upon completion, the borings were backfilled with hydrated bentonite.

3.3 Field Screening

Each sample collected from the trackhoe bucket or sonic sample core was inspected for lithologic composition, presence of water, and field screened for the presence of petroleum hydrocarbons (i.e., staining, hydrocarbon odor and organic vapors). The total organic vapor concentration of each sample was measured using a PID. A portion of each soil sample was placed in a sealable plastic baggie. The tip of the PID was inserted into the plastic bag in the airspace above the soil sample and the PID measurement was recorded. The PID was calibrated before use at the Site to a test gas standard consisting of 100 parts per million (ppm) isobutylene. Because several factors can affect PID readings (e.g. moisture, temperature, and background conditions), HydroCon has determined that a value of 2 ppm or greater may indicate the presence of organic vapors originating from contaminants at the Site. Boring and test pit logs detailing the lithology, field screening results, and sample depths are included in Appendix B.

3.4 Soil Sampling

The selected soil samples were removed from the excavation bucket (test pits) or plastic sleeve (temporary borings) using a new pair of disposable gloves and placed directly into labeled laboratory-prepared jars and sealed with Teflon-lined lids. Soil samples were placed into laboratory-supplied containers (utilizing EPA Method 5035A field preservation) and immediately placed in an ice-filled cooler along with chain-of-custody documentation for shipment to APEX Labs in Tigard, Oregon. Boring and test pit logs detailing the lithology, field screening results, and sample depths were developed for each test pit and temporary boring. Selected soil samples (up to three per boring and one from each test pit) were submitted to the laboratory based on sampling objectives (i.e., depth and soil type) and field screening results.

Soil samples were analyzed using all of the following laboratory methods:

- DRPH and ORPH by Northwest Method NWTPH-Dx
- GRPH by Northwest Method NWTPH-Gx
- BTEX and VOCs by EPA Method 8260C

3.5 Deepening BH-1

Existing monitoring well BH-1 was overdrilled using the sonic drilling method. Prior to drilling the pump and ancillary piping and wiring were temporarily removed to allow drill rig access. The well materials from BH-1 were removed by advancing six inch diameter steel drilling casing over the entire length of the existing well. Following the advancement of the six inch casing an eight inch steel casing was advanced to the target completion depth of 40 feet bgs. Once the eight inch casing was set the six inch casing was removed along with the former well

material. Once the PVC well material was removed, a core barrel sampler was used to clean out any remaining well materials from the former borehole. Once the boring was clean of debris the boring was advanced and sampled to the new design depth using the same drilling techniques used to advance a new boring.

A new well (BH01R) was completed in the borehole. The well was constructed with 25 feet of 4-inch diameter 0.010-inch slotted PVC well screen and a bottom slip cap. Clean 10-20 graded silica sand was used as a filter pack in the annular space. Hydrated bentonite was used as a seal. The bentonite was placed from the top of the sand pack to approximately 1 foot below the ground surface. A vault has been installed at this well location. Monitoring well construction details are documented in the boring logs and summarized on Table 1.

At the conclusion of well development the pump was installed in the well with the pump intake placed at a depth of approximately 33 feet bgs and reactivated.

3.6 Well Development

Monitoring well BH01R was developed by surging and pumping techniques. A clean submersible impellor pump attached to a new length of LDPE tubing was used to surge and bail turbid water from the well. The pump was lowered and raised inside the saturated interval of the well. The pump was lowered near the bottom of the well and turned on to purge turbid water. This process was repeated until no further improvement in water clarity was observed. Approximately 3 casing volumes was removed from the well. Well development details are documented on a *Well Development Form* which is included in Appendix C.

3.7 Decontamination Procedures

All drilling and sampling tools were decontaminated between boring locations using a hot water pressure washer. All solid and liquid investigation-derived waste generated during purging and decontamination was placed in a labeled 55-gallon drum and transported to the onsite remediation system for treatment.

3.8 Surveying

Elandsen Inc. performed the surveying at the site. HydroCon requested that the elevation of the ground surface be surveyed at each temporary boring and test pit location. The vertical and horizontal coordinates of the borings and test pits were surveyed relative to established datums in the area. The horizontal coordinates are relative to the North American Datum, 1983 (NAD83) and the vertical coordinates are relative to the North American Vertical Datum, 1988 (NAVD88). The survey data are included on the test pit and temporary boring logs in Appendix B.

3.9 Management of Investigation Derived Waste

Soil from drill cuttings and water generated during drilling, decontamination, and well development were placed in separate labeled 55-gallon drums. The drums were staged at the Site pending waste profiling. Water generated from well development was temporarily contained in labeled drums and transported to the water treatment area. Water generated by the drilling contractor (from decontamination) was temporarily contained in the contractor's utility trailer and then emptied at the completion of drilling. All water was pumped into the Site's water treatment system for later discharge, under an agreement with the City, into the City of Wenatchee's sanitary sewer system. The 4 drums of soil that were generated during drilling activities were placed in Coleman Oil's drum storage area. These drums, along with other drums of petroleum contaminated solid waste, will be transported in batches to the Wenatchee Waste Management regional facility under the existing Coleman oil petroleum contaminated soil waste profile.

4.0 RESULTS OF INVESTIGATION

This section summarizes subsurface conditions, field screening results, and analytical results.

4.1 *Subsurface Conditions*

The soil beneath the surface in the uplands area includes alluvial deposits consisting primarily of sand, silt, and gravel. Boulders were encountered during test pitting and drilling. Boulders up to 4 feet in diameter were excavated during trenching activities conducted at the site in 2017. Alluvial deposits were observed from ground surface to a maximum depth of 13 feet bgs at HC05 and HC06. It should be noted that the investigation area includes a portion of the former remedial excavation area performed in 2017 where 741.43 tons of petroleum contaminated soil was removed and transported offsite for disposal as well as the location of former Tank Farm B. Fill soil in the form of sand and gravel fill from 2017 remedial excavations was encountered in 3 borings (HC10 through HC12) at depths ranging from ground surface to the top of bedrock (13 to 14 feet bgs).

Bedrock (Chumstick Formation) was encountered at every boring except HC09 (which was only drilled to 5' bgs). The upper portion of the Chumstick appeared weathered and consists of mudstone and sandstone. The mudstone is commonly friable with planar fractures, waxy texture, and has local organic inclusions. The sandstone is fine to medium grained, moderately cemented, friable, and massive.

Water was encountered in every temporary boring except HC09 at a depth ranging from 7.5 feet to 12 feet bgs.

4.1.1 **Refinement of Geologic Interpretation in Uplands Area**

HydroCon updated cross section C to C' (which includes the uplands area of the site where the focus of this investigation was on) to include data obtained from the new borings. The cross section location map and cross section C to C' are included on Figures 3 and 4, respectively (cross sections A-A' and B-B' can be found in HydroCon 2018c). The ground surface is relatively flat in the north-south direction while the top of the Chumstick Formation generally slopes to the north between MW12 and MW16 (approximately 390 feet) with a drop in elevation of 9 feet. Localized depressions in the top of the Chumstick are present in the vicinity of monitoring wells MW03S and MW14. Detailed descriptions of the subsurface soil are included in the attached boring logs (Appendix B).

Figure 4 includes a refinement of the top of the Chumstick Formation based on the new borings. The stratigraphy of the new wells did not significantly change the understanding of the top of the Chumstick Formation at the site.

4.2 Field Screening Results

Because several factors can affect PID readings (e.g. moisture, temperature, and background conditions), HydroCon determined that a value of 2 ppm or greater may indicate the presence of organic vapors originating from contaminants at the site. Results are summarized below.

Field Screening Results

Test Pit/Boring ID	Hydrocarbon Odor	PID Readings >2 ppmv @ depth (feet)
TP01	Strong Odor @ 1'-4'	1005 @ 3' 845 @ 4'
TP02	Slight odor @ 2'	9.6 @ 2' 0.0 @ 4'
TP04	Strong odor @ 1'-4'	165 @ 2' 618 @ 4'
TP05	Slight Odor @ 2'	4.4 @ 2'
HC03	Strong odor @ 10'	460 @ 10'
HC04	Slight to Strong odor @ 7'-9'	34-196 @ 7'-9'
HC05	Strong odor @ 12'	110 @ 12'
HC06	Slight to Strong odor @ 9'-12'	28-447 @ 9'-12'
HC07	Strong odor @ 3'-7.5'	264 @ 3' 335 @ 5' 514 @ 7.5'
HC08	Strong odor @ 9'	620 @ 9'
HC09	Strong odor @ 2'	705 @ 2'
HC10	Moderate odor @ 10'	56 @ 10'
HC11	Strong odor @ 11'-12'	656-284 @ 11'-12'
HC12	Strong odor @ 12'	347 @ 12'

**Field Screening Results
 (continued)**

MW13	Organic Decay Odor @ 3'	5.4 @ 3'
	Strong Odor @ 5'	468 @ 5'
	Strong Odor @ 7'	627 @ 7'
	Strong Odor @ 9'	1,417 @ 9'
	Strong Odor @ 10'	1,271 @ 10'
	Strong Odor @ 12'	50 @ 12'
	No Odor @ 19'	<2.0 @ 19'

4.3 Soil Analytical Results

Soil analytical results are reported in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm), and are summarized in Table 2 and Figure 6. The laboratory report and chain-of-custody documentation are included in Appendix D.

A summary of the soil analytical results in each test pit, temporary boring, and monitoring well BH01R is provided below.

4.3.1 Test Pits

TP01 – HydroCon collected a sample from 2 feet bgs (TP01-2). GRPH (4,970 mg/kg), DRPH (3,510 mg/kg), ORPH (1,850 mg/kg), benzene (0.328 mg/kg), toluene (0.408 mg/kg), ethylbenzene (40.5 mg/kg), and total xylenes (343 mg/kg) were detected in the sample above their respective MRL. The concentration of GRPH, DRPH, benzene, ethylbenzene, and total xylenes exceed their respective MTCA Method A CULs.

TP02 – HydroCon collected a sample from 2 feet bgs (TP02-2). ORPH (1,250 mg/kg) was the only analyte detected in the sample above the MRL. The concentration of ORPH is below the MTCA Method A CUL of 2,000 mg/kg.

TP03 – HydroCon collected a sample from 4 feet bgs (TP03-4). DRPH (119 mg/kg) was detected in the sample above their respective MRL. The concentration of GRPH exceeds the MTCA Method A CUL.

TP04 – HydroCon collected a sample from 2 feet bgs (TP04-2). GRPH (47.6 mg/kg) and ORPH (4,270 mg/kg), ethylbenzene (0.263 mg/kg) and total xylenes (1.66 mg/kg) were detected in the sample above their respective MRL. The concentration of GRPH and ORPH exceed the MTCA Method A CUL.

TP05 – HydroCon collected a sample from 2 feet bgs (TP05-2). DRPH (270 mg/kg) was the only analyte in the sample detected above the MRL. The concentration of DRPH is below the MTCA Method A CUL of 2,000 mg/kg.

TP06 – HydroCon collected a sample from 2 feet bgs (TP06-2). DRPH (580 mg/kg), ORPH (61.1 mg/kg), and toluene (0.643 mg/kg) were detected in the sample at concentrations below their respective MTCA Method A CULs.

4.3.2 Temporary Borings

HC03 – Three samples were submitted for analysis from the boring at depths of 7, 10, and 15 feet bgs. There was no detection of any COC in the samples collected at 7 and 15 feet bgs. GRPH (3,550 mg/kg) and DRPH (3,240 mg/kg) were detected in the sample collected from 10 feet bgs at concentrations that exceed their respective MTCA Method A CULs.

HC04 – Three samples were submitted for analysis from the boring at depths of 7, 9, 12 feet bgs. GRPH (up to 1,070 mg/kg), DRPH (up to 6,400 mg/kg) and total xylenes (up to 10.2 mg/kg) were detected in the samples collected at 7 and 9 feet bgs. ORPH (4,640 mg/kg) was detected in the sample collected at 7 feet bgs. The concentration of GRPH and ORPH exceeds their respective MTCA Method A cleanup level in the HC04-07 sample. The concentration of GRPH, DRPH, and total xylenes exceeds their respective MTCA Method A CULs in the HC04-09 sample. There was no detection of any COC in the sample collected at 12 feet bgs.

HC05 – Three samples were submitted for analysis from the boring at depths of 10, 12, and 15 feet bgs. DRPH (130 mg/kg) and ORPH (62.9 mg/kg) were detected in the sample collected at 10 feet bgs. GRPH (101 mg/kg), DRPH (2,210 mg/kg), and ORPH (316 mg/kg) were detected in the sample collected at 12 feet bgs. GRPH (55.4 mg/kg) was detected in the sample collected from 15 feet bgs. The concentration of GRPH and DRPH in the sample collected at 12 feet bgs exceeded their respective MTCA Method A CULs. The concentration of GRPH in the sample collected at 15 feet bgs exceeded the MTCA Method A CUL.

HC06 – Three samples were submitted for analysis from the boring at depths of 9, 12, and 15 feet bgs. GRPH (17.6 mg/kg) and DRPH (1,750 mg/kg) were detected in the sample collected at 9 feet bgs. GRPH (1,900 mg/kg), DRPH (5,560 mg/kg), and total xylenes (53.6 mg/kg) were detected in the sample collected at 12 feet bgs at concentrations that exceed their respective MTCA Method A CULs. There was no detection of any COC in the sample collected at 15 feet bgs.

HC07 - Three samples were submitted for analysis from the boring at depths of 3, 5, and 15 feet bgs. GRPH (up to 1,270 mg/kg), DRPH (up to 2,740 mg/kg), benzene (up to 0.159

mg/kg), ethylbenzene (up to 0.373 mg/kg), and total xylenes (up to 3.53 mg/kg) were detected in the samples collected at 3 and 5 feet bgs. The concentration of GRPH in the samples collected from 3 and 5 feet bgs and the concentration of DRPH collected at 5 feet bgs exceed their respective MTCA Method A CULs. There was no detection of any COC in the sample collected at 15 feet bgs.

HC08 – Three samples were submitted for analysis from the boring at depths of 4, 9, and 12 feet bgs. GRPH (1,260 mg/kg) and DRPH (9,150 mg/kg) were detected in the sample collected at 9 feet bgs at concentrations that exceed their respective MTCA Method A CULs. There was no detection of any COC in the samples collected at 4 and 15 feet bgs.

HC09 – One sample was submitted for analysis from the boring at a depth of 2 feet bgs. GRPH (12,200 mg/kg), DRPH (3,320 mg/kg), benzene (2.35 mg/kg), toluene (9.46 mg/kg), ethylbenzene (41.4 mg/kg), and total xylenes (307 mg/kg) were detected in the sample. The concentration of GRPH, DRPH, benzene, toluene, ethylbenzene, and total xylenes exceeds their respective MTCA Method A CULs.

HC10 – Three samples were submitted for analysis from the boring at depths of 5, 12, and 15 feet bgs. There was no detection of any COC in the sample collected at 5 feet bgs. GRPH (17.6 mg/kg) and DRPH (84.5 mg/kg) were detected in the sample collected from 12 feet bgs. ORPH (51.1 mg/kg) was detected in the sample collected from 15 feet bgs. None of the detected analytes was above their respective MTCA Method A CULs.

HC11 – Three samples were submitted for analysis from the boring at depths of 6, 11, and 15 feet bgs. DRPH (45 mg/kg) and ORPH (1,110 mg/kg) were detected in the sample collected at 6 feet bgs. GRPH (1,520 mg/kg), DRPH (6,760 mg/kg), ORPH (1,740 mg/kg), benzene (1.12 mg/kg), ethylbenzene (0.567 mg/kg), and total xylenes (34.2 mg/kg) were detected in the sample collected at 11 feet bgs. The concentration of GRPH, DRPH, benzene, and total xylenes exceed their respective MTCA Method A CULs in the sample collected at 11 feet bgs. There was no detection of any COC in the sample collected at 15 feet bgs.

HC12 - Three samples were submitted for analysis from the boring at depths of 8, 12, and 15 feet bgs. GRPH (627 mg/kg) was detected in the sample collected at 8 feet bgs. GRPH (1,190 mg/kg), DRPH (3,790 mg/kg), ethylbenzene (0.0458 mg/kg), and total xylenes (2.80 mg/kg) were detected in the sample collected from 12 feet bgs. The concentration of GRPH in the samples collected from 8 and 12 feet bgs and the concentration of DRPH in the sample collected at 12 feet bgs exceeded their respective MTCA Method A CULs. There was no detection of any COC in the sample collected at 15 feet bgs.

4.3.3 Monitoring Well BH01R

BH01R – Two samples were submitted for analysis from the boring at depths of 32 and 37 feet bgs. DRPH (73.5 mg/kg) and ORPH (125 mg/kg) were detected in the sample collected at 32 feet bgs. GRPH (108 mg/kg) and DRPH (400 mg/kg) were detected in the sample collected at 37 feet bgs. The concentration of GRPH in the sample collected at 37 feet bgs exceeds the MTCA Method A CUL.

4.4 Data Quality Review

Laboratory testing of soil resulted in two laboratory reports including Apex Labs Work Orders A8H328 and A8H0529. The data review reports are included in Appendix E. 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.

5.0 DISCUSSION

This section provides a discussion of the results of the investigation and known areas of contamination unrelated to the R99 release.

5.1 Sources of Petroleum Hydrocarbon Contamination Other Than R99 in the Uplands Area

Elevated concentrations of GRPH, DRPH, ORPH, and BTEX have been 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. Considering that the site has been used as a bulk fuel facility for over 100 years, there are several possible sources that may have contributed to this contamination including two tank farms (Tank Farm A and former Tank Farm B); the CVB; the two former above ground pumps located east of the CVB; the underground piping associated with the two former above ground pumps; and the USTs, ancillary piping, and dispensers located east and south of Tank Farm A. Most of these features are shown on Figure 2.

Other potential sources of petroleum contamination in the Uplands include historic features that are no longer present at the site including the former warehouse building located north of former Tank Farm B; the former storage building; the former truck loading rack; and the former dry well. Many of these features were removed during the remedial excavation performed in 2017 in response to the R99 release.

The primary area of contamination in the Uplands area appears to be concentrated near MW13. Removal of the CVB was done to remove the equipment and structure of one of the suspected sources as well as provide drill rig and excavator access. Six test pits (TP01 through TP06) were performed to assess shallow soil conditions under and around the former CVB followed by drilling ten temporary borings (HC03 through HC12) to delineate the lateral extent of contamination near MW13/CVB/former Tank Farm B. Continuous soil samples were collected to assess subsurface geology, perform field screening for the presence of petroleum contamination, and collect soil samples.

Soil analytical results indicated that GRPH, DRPH, ORPH, and BTEX were detected in samples collected under and near the CVB and former Tank Farm B. These two former site features appear to be two of the primary sources of contamination in the Uplands area. The extent of this contamination in the unsaturated (vadose) zone is discussed in detail in Section 5.2.

Known sources of petroleum contamination in the Uplands area unrelated to the R99 release are summarized below.

5.1.1 2010 Gasoline Release

On June 2, 2010, a review of daily inventory records for AST 15A by Coleman Oil personnel revealed a discrepancy of approximately 180 gallons of unleaded gasoline (Farallon 2017). Subsequent inspection of AST 15A and associated piping revealed gasoline leaking from a fill valve and flowing onto the concrete floor surface in the AST 15A valve control box on the southeast portion of Tank Farm A. In addition, gasoline was observed on the ground surface east of the AST 15A valve control box in an unpaved area between the Tank Farm A containment area and the south-adjacent former fuel dispenser island. Coleman Oil personnel immediately stopped the flow of gasoline from the AST to the leaking fill valve; contacted emergency spill response contractor NRC Environmental Services, Inc. of Spokane, Washington (NRCES) to address the spill; and reported the spill to the appropriate regulatory agencies.

The gasoline release appeared to be limited to a narrow unpaved area between the Tank Farm A containment area and the south-adjacent former fuel dispenser island (Figure 2). NRCES excavated approximately 6 cubic yards of gasoline contaminated soil for offsite disposal from this area to a depth of approximately 2 feet below ground surface (bgs) using hand tools. Confirmation soil samples collected from the excavation sidewalls and 1 foot below the base of the excavation contained GRPH and BTEX at concentrations exceeding their respective MTCA Method A cleanup levels.

Feasible alternatives for excavation of additional material between the Tank Farm A containment area and the south-adjacent former fuel dispenser island were limited due to concerns regarding the structural integrity of the Tank Farm A containment area and the presence of large boulders in the excavation area.

Initial follow-up characterization activities conducted by Environmental Compliance Associates, LLC of Kennewick, Washington included completion of shallow borings using a push-probe drilling rig and completion of a deeper boring using an air rotary drilling rig. Results of the follow-up characterization indicated that concentrations of GRPH and BTEX in soil decreased significantly with distance both laterally and vertically from the spill area. The extent of GRPH and BTEX contaminated soil appears to be limited to the area near the point of release.

5.1.2 2013 Gasoline Release

On May 30, 2013, another gasoline spill occurred at the Site. The UST at the southeastern portion of the Site that supplied fuel to the retail sales card lock was being filled. Approximately 200 gallons of gasoline overtopped the UST fill port and spilled onto the soil surrounding the UST (Able 2013). Able responded to the incident on May 31, 2013 and began excavation of the impacted soil. A total of 90.08 tons of petroleum contaminated soil was

removed from around the UST. The final excavation was 21 feet long by 18 feet wide, and extended to a depth of 12 feet bgs (Figure 2). The excavation exposed a portion of the UST. Confirmation soil samples collected from the final limits of the excavation confirmed removal of petroleum-impacted soil to concentrations less than MTCA Method A cleanup levels.

Ecology (2015) issued a No Further Action (NFA) determination for the Property in a letter dated March 13, 2015. The NFA determination was contingent on compliance with the Environmental Covenant recorded on October 6, 2014 with Chelan County that specified restrictions and requirements related to residual concentrations of petroleum hydrocarbons at concentrations exceeding MTCA cleanup levels in soil in the area of Tank Farm A (2010 gasoline release area).

5.1.3 Drum Spill

In September 2018 a release of gasoline and diesel fuel occurred from a leaking drum that was being stored in a temporary drum storage area located northeast of Tank Farm A. Remedial excavation began immediately after observing stained soil underlying the drum. Due to the presence of a large boulder larger excavation equipment was needed to advance the remedial excavation. The excavation was advanced down to the soil/water interface (approximately 8 feet bgs). The final dimensions of the remedial excavation measured 12 feet by 14 feet with a total depth of 8 feet bgs. A total of 16.83 tons of PCS was removed from the site.

Confirmation soil samples were collected from the sidewalls and floor of the excavation. Analytical results indicated that lateral extent of soil contamination was removed from the ground surface down the groundwater interface. The floor sample collected at the groundwater interface had GRPH (789 mg/kg) and DRPH (8,570 mg/kg) concentrations that exceed their respective MTCA Method A cleanup levels. No further remedial excavation was attempted due to the presence of Tank Farm A and the large boulder.

5.2 Extent of Soil Contamination

Based on the results of this 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. The approximate extent of soil contamination within the vadose zone in this area is shown on Figure 6. This area is approximately 30 feet wide by 65 feet long. Contamination in this area is expected to extend from near ground surface down to the depth of seasonal low groundwater level which is approximately 8 to 12 feet bgs in this area of the site. GRPH, DRPH, ORPH, and BTEX contaminated soil is observed further downgradient at depth at or below the water. This zone of contamination is referred to as the smear zone and appears to

comingling with R99 and possibly other products (i.e. gasoline and oil) as it gets closer to the Columbia River.

5.3 Remedial Options

Removal of soil by excavation in the area shown on Figure 6 to a depth of 8 feet would generate approximately 578 cubic yards of soil. This would remove the majority of the source of contamination that is affecting groundwater in this area of the site. Excavation is not the only remedial action that can remove the contamination (soil vapor extraction is another remedial option) but it is the fastest and most thorough method of cleanup. Cleanup of soil in the saturated zone downgradient of this source area would require an alternative remedial method (e.g., injection or natural attenuation) as it would not be economically feasible to remove 8 feet or more of overburden to access the contaminated soil within the smear zone. Cleanup options and estimated costs for each technology will be provided in the feasibility study.

6.0 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.

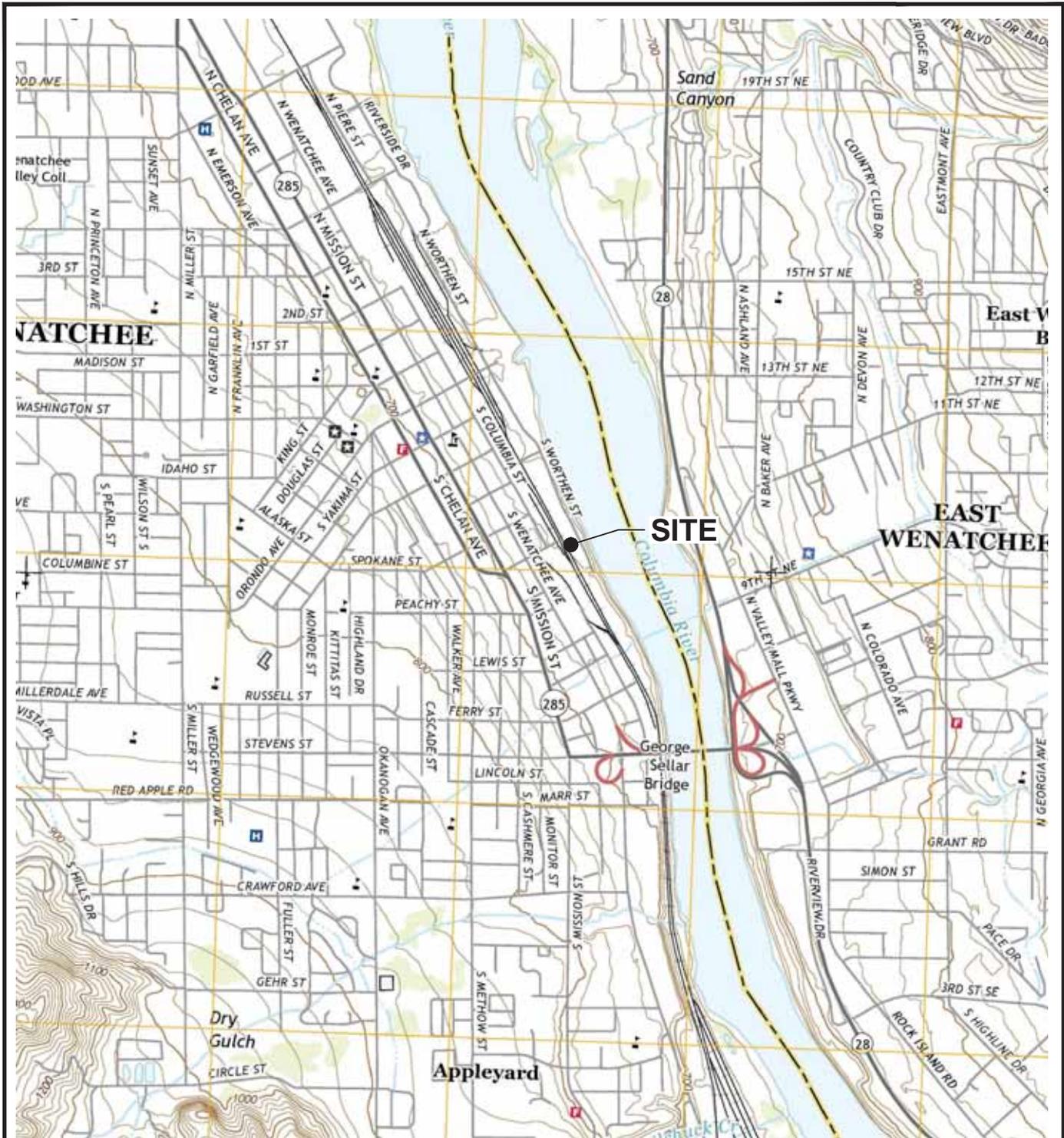
This report is intended for the sole use of **Coleman Oil Company** to meet the requirements of Exhibit B – Scope of Work and Schedule of the Agreed Order. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution 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.

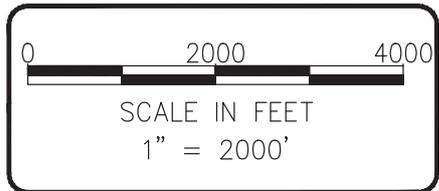
7.0 REFERENCES

- 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.
- . 2018c. *Additional Interim Action Work Plan Addendum #2. Coleman Oil R99 Renewable Diesel Spill, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. July 26.
- . 2018d. *Aquifer Testing at Coleman Oil Facility, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC March 16.
- . 2018e. *SRI Addendum - Additional Upland Soil and River Sediment Characterization Work Plan, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. December 12.
- . 2018f. *Product Recovery at Coleman Oil Site. Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. June 26.
- Farallon Consulting, L.L.C.. 2017. *Supplemental Data Summary Report*. Prepared for Coleman Oil Company. October 18.

FIGURES



NOTE(S):
 USGS, WENATCHEE QUADRANGLE
 WASHINGTON
 7.5 MINUTE SERIES (TOPOGRAPHIC)



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.

LEGEND

- Road
- +++++ Railroad
- ☐ Former Dry Well
- MW-1 ◆ Monitoring Well (FARALLON)
- MW12 ◆ Monitoring Well (HydroCon)
- BH-1 ◆ Monitoring Well (EPI, 2017)
- RW-1 ◆ Recovery Well (FARALLON)
- FB-3 Boring Locations
- ⊙ SUMP#6 Sump
- - - Containment Booms
- ⊕ TP01 Test Pit Locations

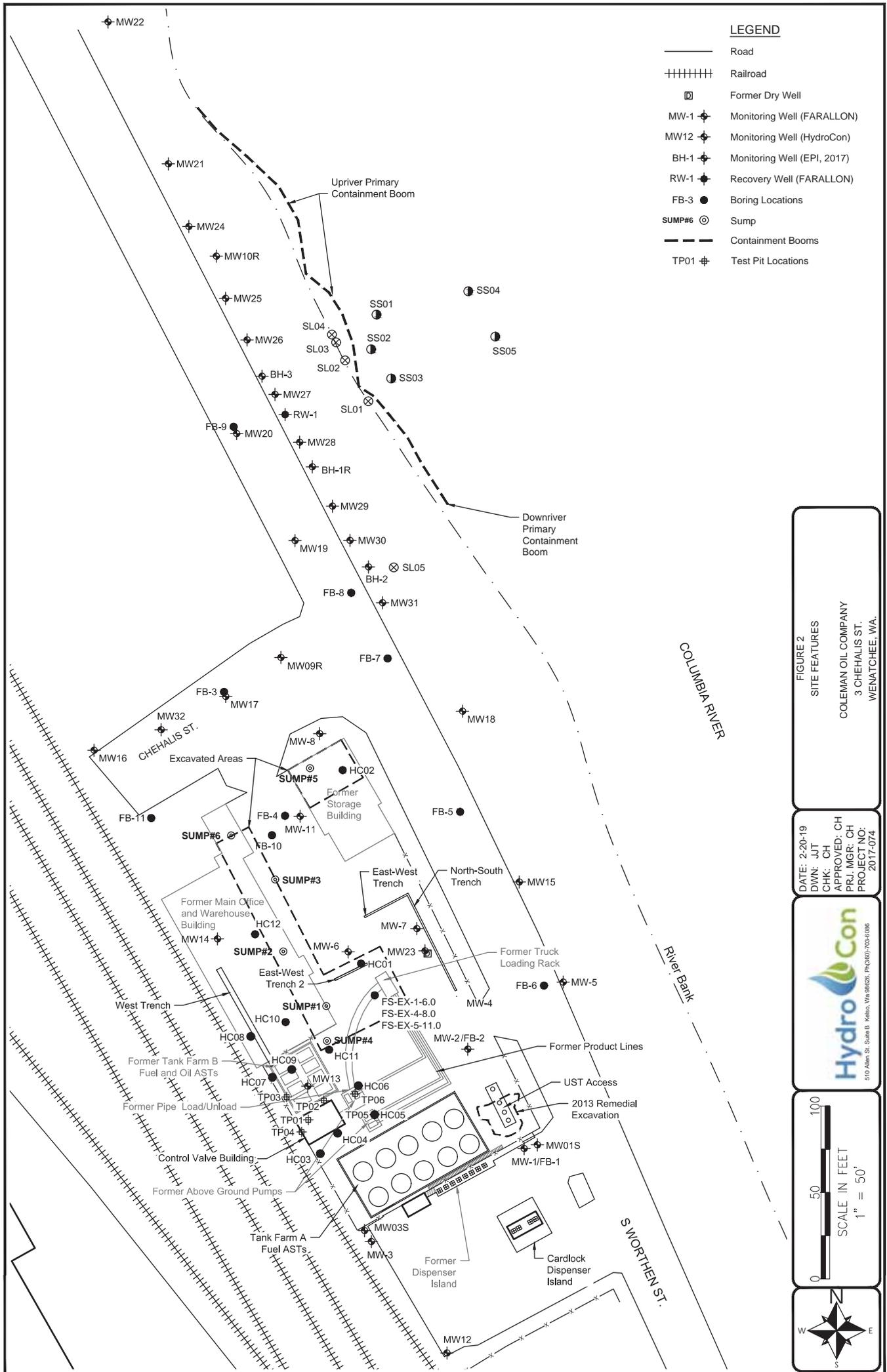


FIGURE 2
SITE FEATURES
 COLEMAN OIL COMPANY
 3 CHEHALIS ST.
 WENATCHEE, WA.

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



LEGEND

- Road
- +++++ Railroad
- MW-1 Monitoring Well (FARALLON)
- MW12 Monitoring Well (HydroCon)
- BH-1 Monitoring Well (EPI, 2017)
- RW-1 Recovery Well (FARALLON)
- FB-3 Boring Locations
- SUMP#6 Sump
- - - - Containment Booms
- SS01 Sediment Sample Locations
- Documented Historic Gasoline Release Locations
- TP01 Test Pit Locations

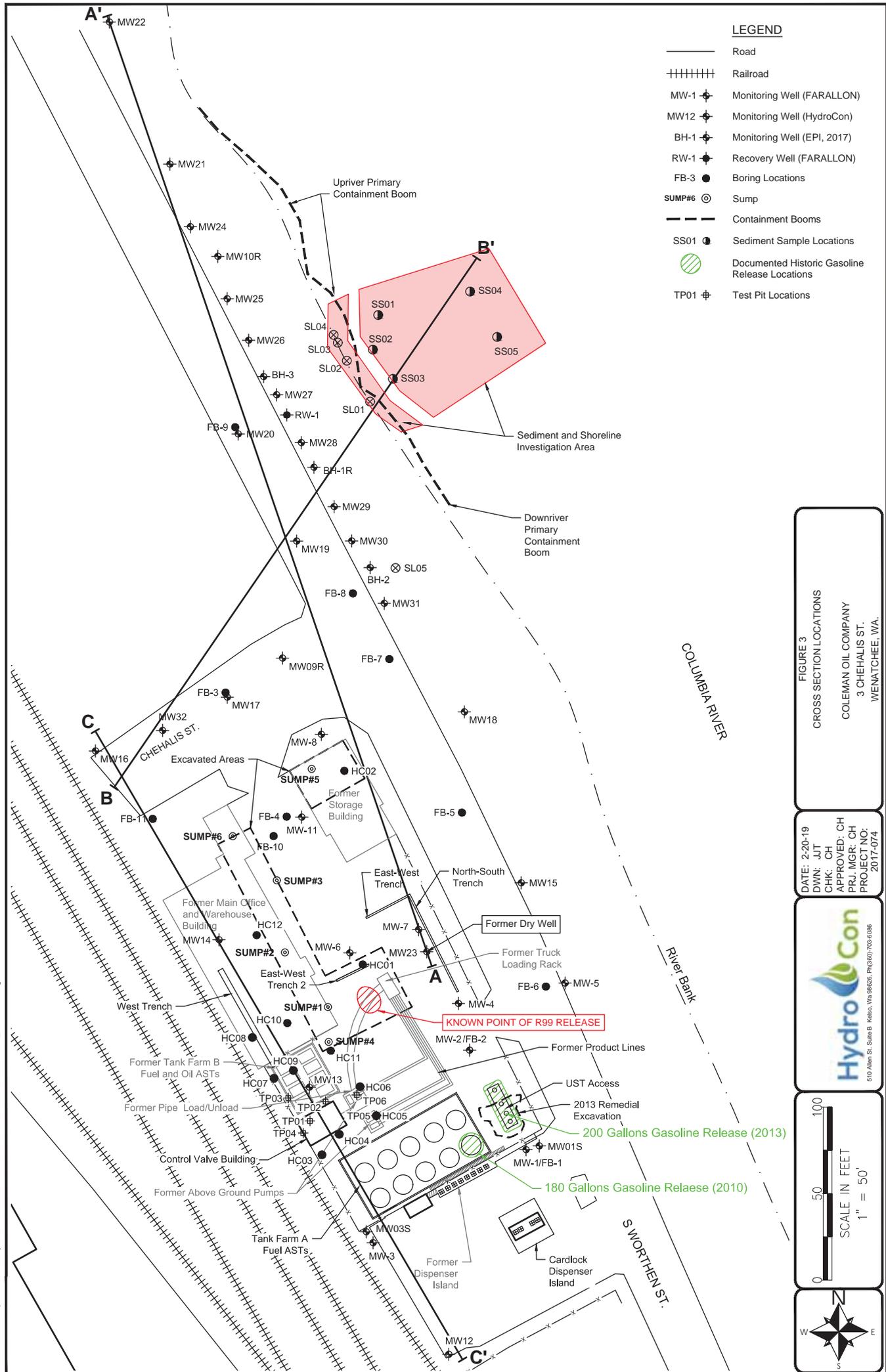
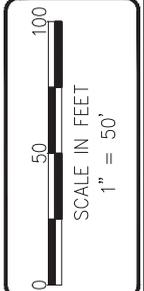
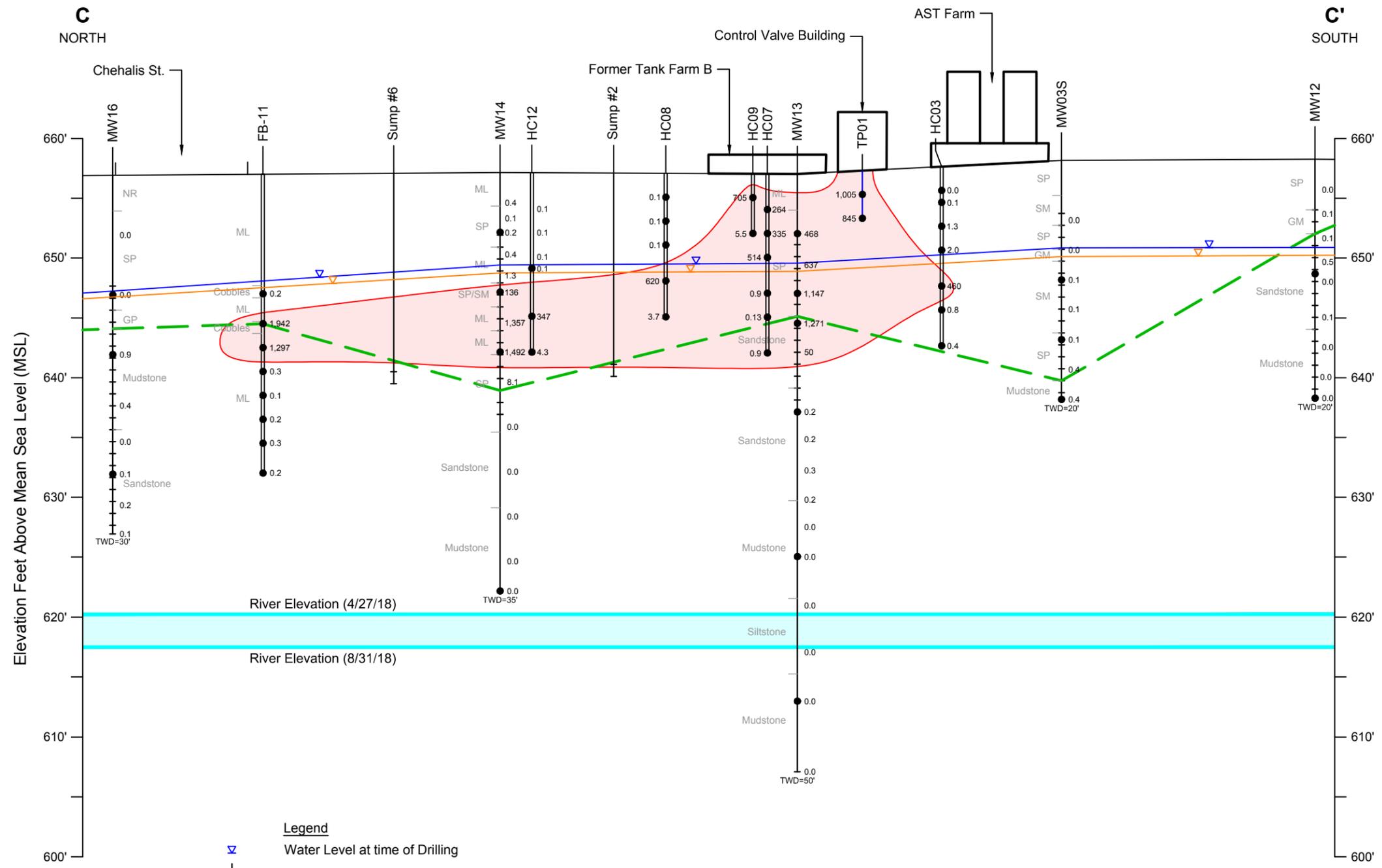


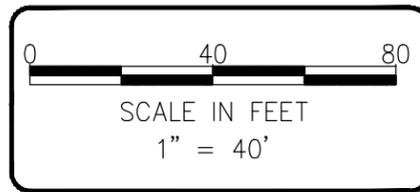
FIGURE 3
CROSS SECTION LOCATIONS
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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





- Legend**
- Water Level at time of Drilling
 - Well Screen Interval
 - Water Level (4/27/18)
 - Water Level (8/31/18)
 - Top of Chumstick Formation
 - PID Reading
 - Sample Location
 - Area of Contamination as Defined by Analytical Results and PID Readings



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

FIGURE 4
 CROSS SECTION C-C'
 COLEMAN OIL COMPANY
 3 CHEHALIS ST.
 WENATCHEE, WA.

Field ID	Sample Depth (feet)	Date	Soil Analytical Results (mg/kg)						
			GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
WA MTCA Method A			30/100	2,000	2,000	0.3	7	6	9
Benzene (Non Detect)			100						
Benzene (Detect)			30						
Test Pits									
TP01	2	1/7/2019	4,970	3,510	1,850	0.328	0.408	40.5	343
TP02	2	1/7/2019	<6.06	<99.8	1,250	<0.0121	<0.0606	<0.0303	<0.0910
TP03	4	1/7/2019	47.6	119	<50.0	<0.0125	<0.0636	<0.0311	<0.0934
TP04	2	1/7/2019	<5.93	<560	4,270	<0.0138	<0.0690	0.263	1.66
TP05	2	1/7/2019	<5.93	270	<50.0	<0.0119	<0.0596	<0.0297	<0.0890
TP06	2	1/7/2019	<6.43	580	61.1	<0.0129	0.0643	<0.0321	<0.0964
Temporary Soil Borings									
HC03	7	1/8/2019	<5.02	<25.0	<50.0	<0.0100	<0.0502	<0.0251	<0.0754
HC03	10	1/8/2019	3,550	3,240	<216	<0.179	<0.895	<0.447	<1.34
HC03	15	1/8/2019	<5.08	<25.0	<50.0	<0.0102	<0.0508	<0.0254	<0.0762
HC04	7	1/8/2019	152	631	4,640	<0.0105	<0.0527	<0.0264	1.40
HCO4	9	1/8/2019	1,070	6,400	<869	<0.203	<1.01	<0.507	10.2
HC04	12	1/8/2019	<4.98	<25.0	<50.0	<0.00996	<0.0498	<0.0249	<0.0747
HC05	10	1/8/2019	<5.63	130	62.9	<0.0113	<0.0563	<0.0281	<0.0844
HC05	12	1/8/2019	101	2,210	316	<0.0107	<0.0537	<0.0269	<0.0806
HC05	15	1/8/2019	55.4	<25.0	<50.0	<0.0109	<0.0547	<0.0274	<0.0821
HC06	9	1/8/2019	17.6	1,750	<50.0	<0.00987	<0.0494	<0.0247	<0.0740
HC06	12	1/8/2019	1,900	5,560	<416	<0.0414	<0.207	0.968	53.6
HC06	15	1/8/2019	<5.28	<25.0	<50.0	<0.0106	<0.0528	<0.0264	<0.0792
HC07	3	1/9/2018	712	1,780	<50.0	0.0913	<0.207	0.373	2.17
HC07	5	1/9/2018	1,270	2,740	<50.0	0.159	<0.185	0.367	3.53
HC07	15	1/9/2018	<4.92	<25.0	<50.0	<0.00983	<0.0492	<0.0246	<0.0737
HC08	4	1/9/2019	<4.43	<25.0	<50.0	<0.00887	<0.0443	<0.0222	<0.0665
HC08	9	1/9/2019	1,260	9,150	<230	<0.112	<0.562	<0.281	<0.843
HC08	12	1/9/2019	<5.35	<25.0	<50.0	<0.0107	<0.0535	<0.0267	<0.0802
HC09	2	1/9/2019	12,200	3,320	515	2.35	9.46	41.4	307
HC10	5	1/9/2019	<4.92	<25.0	<50.0	<0.00984	<0.0492	<0.0246	<0.0738
HC10	12	1/9/2019	17.6	84.5	<50.0	<0.0117	<0.0584	<0.0292	<0.0876
HC10	15	1/9/2019	<6.88	<25.0	51.7	<0.0138	<0.0688	<0.0344	<0.103
HC11	6	1/9/2019	<4.94	45.0	1,110	<0.00987	<0.0494	<0.0247	<0.0741
HC11	11	1/9/2019	1,520	6,760	1,740	1.12	<0.214	0.567	34.2
HC11	15	1/9/2019	<4.95	<25.0	<50.0	<0.00990	<0.0495	<0.0248	<0.0743
HC12	8	1/9/2019	627	<25.0	<50.0	<0.0231	<0.115	<0.0577	<0.173
HC12	12	1/9/2019	1,190	3,790	<439	<0.0113	<0.0567	0.0458	2.80
HC12	15	1/9/2019	<5.16	<25.0	<50.0	<0.0103	<0.0516	<0.0258	<0.0774

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

- LEGEND**
- Road
 - +++++ Railroad
 - MW-1 Monitoring Well (FARALLON)
 - MW12 Monitoring Well (HydroCon)
 - HC01 Boring Locations
 - SUMP#6 Sump
 - TP01 Test Pit Locations
 - Extent of Soil Contamination in Vadose Zone

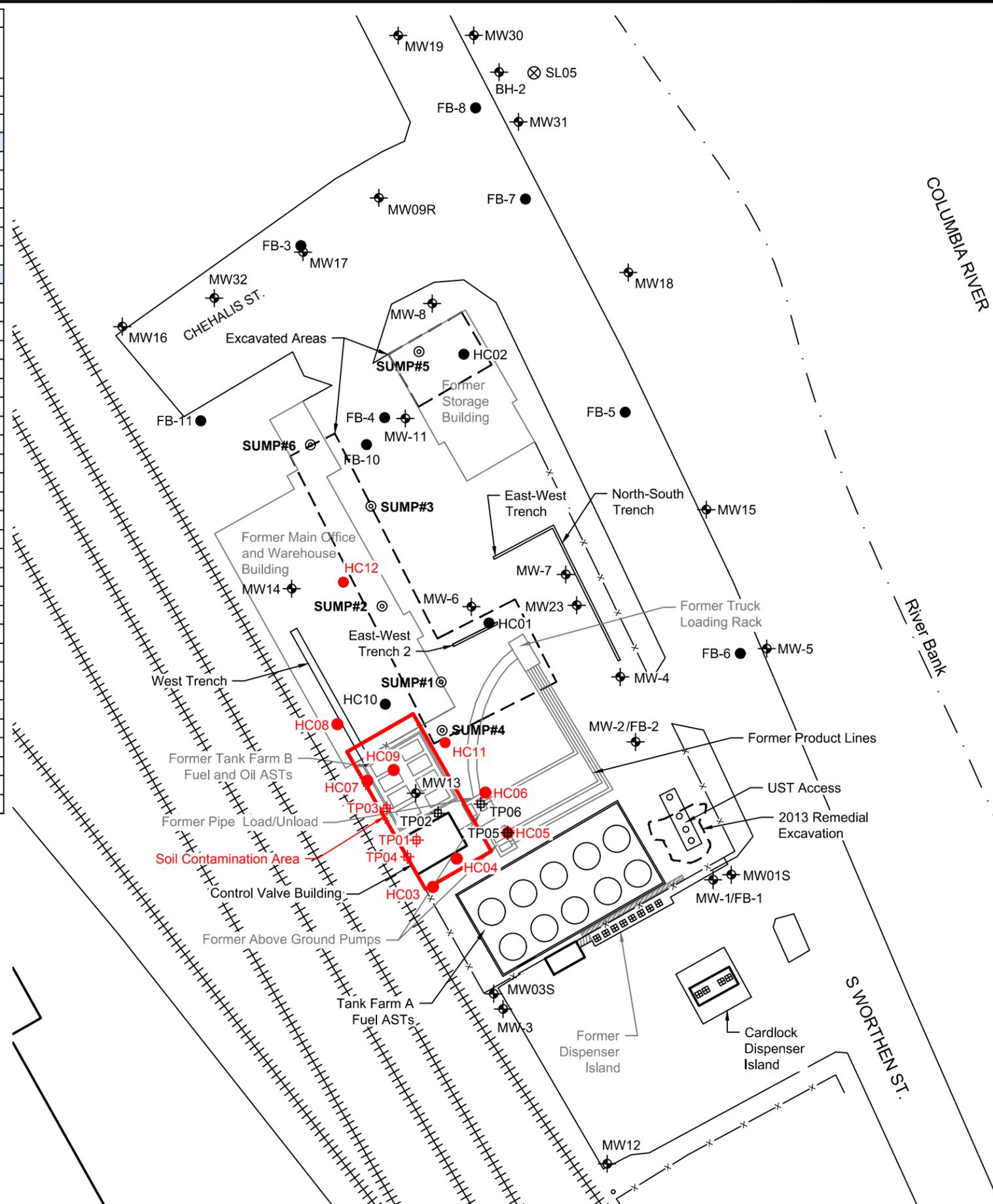


FIGURE 6
 UPLAND SOIL
 AREA OF SOIL CONTAMINATION
 COLEMAN OIL COMPANY
 3 CHEHALIS ST.
 WENATCHEE, WA.

DATE: 3-5-19
 DWN: JTT
 CHK: RH
 APPROVED: RH
 PRJ. MGR: CH
 PROJECT NO: 2017-074



TABLES



Table 1

Well Construction Details
Coleman Oil Site
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
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
BH-1	3/25/2017	EPI	Air Rotary	30.00	30.00	2	PVC	0.01	10	-	20-30	652.17
BH01R	1/27/2019	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:

feet¹ = Elevation is relative to NGVD88

bgs = below ground surface

PVC = polyvinyl chloride

Replaced by well on the next line



Table 2
 Test Pit and Temporary Boring 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							
Test Pits									
TP01-02	2	1/7/2019	4,970	3,510	1,850	0.328	0.408	40.5	343
TP02-02	2	1/7/2019	<6.06	<99.8	1,250	<0.0121	<0.0606	<0.0303	<0.0910
TP03-04	4	1/7/2019	<6.23	119	<50.0	<0.0125	<0.0636	<0.0311	<0.0934
TP04-02	2	1/7/2019	47.6	<560	4,270	<0.0138	<0.0690	0.263	1.66
TP05-02	2	1/7/2019	<5.93	270	<50.0	<0.0119	<0.0596	<0.0297	<0.0890
TP06-02	2	1/7/2019	<6.43	580	61.1	<0.0129	0.0643	<0.0321	<0.0964
Temporary Soil Borings									
HC03-07	7	1/8/2019	<5.02	<25.0	<50.0	<0.0100	<0.0502	<0.0251	<0.0754
HC03-10	10	1/8/2019	3,550	3,240	<216	<0.179	<0.895	<0.447	<1.34
HC03-15	15	1/8/2019	<5.08	<25.0	<50.0	<0.0102	<0.0508	<0.0254	<0.0762
HC04-07	7	1/8/2019	152	631	4,640	<0.0105	<0.0527	<0.0264	1.40
HC04-09	9	1/8/2019	1,070	6,400	<869	<0.203	<1.01	<0.507	10.2
HC04-12	12	1/8/2019	<4.98	<25.0	<50.0	<0.00996	<0.0498	<0.0249	<0.0747
HC05-10	10	1/8/2019	<5.63	130	62.9	<0.0113	<0.0563	<0.0281	<0.0844
HC05-12	12	1/8/2019	101	2,210	316	<0.0107	<0.0537	<0.0269	<0.0806
HC05-15	15	1/8/2019	55.4	<25.0	<50.0	<0.0109	<0.0547	<0.0274	<0.0821
HC06-09	9	1/8/2019	17.6	1,750	<50.0	<0.00987	<0.0494	<0.0247	<0.0740
HC06-12	12	1/8/2019	1,900	5,560	<416	<0.0414	<0.207	0.968	53.6
HC06-15	15	1/8/2019	<5.28	<25.0	<50.0	<0.0106	<0.0528	<0.0264	<0.0792
HC07-03	3	1/9/2018	712	1,780	<50.0	0.0913	<0.207	0.373	2.17
HC07-05	5	1/9/2018	1,270	2,740	<50.0	0.159	<0.185	0.367	3.53
HC07-15	15	1/9/2018	<4.92	<25.0	<50.0	<0.00983	<0.0492	<0.0246	<0.0737
HC08-04	4	1/9/2019	<4.43	<25.0	<50.0	<0.00887	<0.0443	<0.0222	<0.0665
HC08-09	9	1/9/2019	1,260	9,150	<230	<0.112	<0.562	<0.281	<0.843
HC08-12	12	1/9/2019	<5.35	<25.0	<50.0	<0.0107	<0.0535	<0.0267	<0.0802
HC09-02	2	1/9/2019	12,200	3,320	515	2.35	9.46	41.4	307
HC10-05	5	1/9/2019	<4.92	<25.0	<50.0	<0.00984	<0.0492	<0.0246	<0.0738
HC10-12	12	1/9/2019	17.6	84.5	<50.0	<0.0117	<0.0584	<0.0292	<0.0876
HC10-15	15	1/9/2019	<6.88	<25.0	51.7	<0.0138	<0.0688	<0.0344	<0.103
HC11-06	6	1/9/2019	<4.94	45.0	1,110	<0.00987	<0.0494	<0.0247	<0.0741
HC11-11	11	1/9/2019	1,520	6,760	1,740	1.12	<0.214	0.567	34.2
HC11-15	15	1/9/2019	<4.95	<25.0	<50.0	<0.00990	<0.0495	<0.0248	<0.0743
HC12-08	8	1/9/2019	627	<25.0	<50.0	<0.0231	<0.115	<0.0577	<0.173
HC12-12	12	1/9/2019	1,190	3,790	<439	<0.0113	<0.0567	0.0458	2.80
HC12-15	15	1/9/2019	<5.16	<25.0	<50.0	<0.0103	<0.0516	<0.0258	<0.0774
Monitoring Well BH01R									
BH-1R-32	32	1/10/2019	<5.77	73.5	125	<0.0115	<0.0577	<0.0288	<0.0865
BH-1R-37	37	1/10/2019	108	400	<50.0	<0.0101	<0.0507	<0.0253	<0.0760

Notes

Red denotes concentration in excess of 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

APPENDIX A
PHOTOGRAPHS



PHOTO 1
Former CVB Location



PHOTO 2
TP01 Location



PHOTO 3
TP02 Location

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Jan 2019\2017-074_PP-013119.dwg



DATE: 1-31-19
DWN: JJT
CHK: RH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

PHOTOPLATE 1
SITE PHOTOGRAPHS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.



PHOTO 4
TP03 Location



PHOTO 5
TP04 Location



PHOTO 6
TP05/HC05 Location

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Jan 2019\2017-074_PP-013119.dwg



DATE: 1-31-19
DWN: JJT
CHK: RH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

PHOTOPLATE 2
SITE PHOTOGRAPHS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.



PHOTO 7
TP06/HC06 Location



PHOTO 8
HC03 Location



PHOTO 9
HC04 Location

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Jan 2019\2017-074_PP-013119.dwg



DATE: 1-31-19
DWN: JJT
CHK: RH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

PHOTOPLATE 3
SITE PHOTOGRAPHS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.



PHOTO 10
HC07 and HC08 Locations
HC07 in foreground.



PHOTO 11
HC09 Location



PHOTO 12
HC10 Location

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Jan 2019\2017-074_PP-013119.dwg



DATE: 1-31-19
DWN: JJT
CHK: RH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

PHOTOPLATE 4
SITE PHOTOGRAPHS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.



PHOTO 13
HC11 Location



PHOTO 14
HC12 Location



PHOTO 15
BH-1R Location

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Jan 2019\2017-074_PP-013119.dwg



DATE: 1-31-19
DWN: JJT
CHK: RH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

PHOTOPLATE 5
SITE PHOTOGRAPHS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

APPENDIX B

BORING AND TEST PIT LOGS

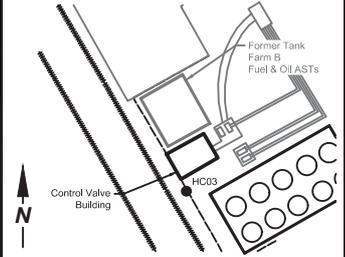


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC03**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0 - 5				0 0.1			
5 - 10				1.3			
10 - 15			HC03-07	2.0			
15 - 16				2.7			
16 - 17				460			
17 - 18				0.8			
18 - 19				0.8			
19 - 20				0.4			
20 - 21				0.4			
21 - 22				0.4			
22 - 23				0.4			
23 - 24				0.4			
24 - 25				0.4			
25 - 26				0.4			
26 - 27				0.4			
27 - 28				0.4			
28 - 29				0.4			
29 - 30				0.4			
30 - 31				0.4			
31 - 32				0.4			
32 - 33				0.4			
33 - 34				0.4			
34 - 35				0.4			
35 - 36				0.4			
36 - 37				0.4			
37 - 38				0.4			
38 - 39				0.4			
39 - 40				0.4			
40 - 41				0.4			
41 - 42				0.4			
42 - 43				0.4			
43 - 44				0.4			
44 - 45				0.4			
45 - 46				0.4			
46 - 47				0.4			
47 - 48				0.4			
48 - 49				0.4			
49 - 50				0.4			
50 - 51				0.4			
51 - 52				0.4			
52 - 53				0.4			
53 - 54				0.4			
54 - 55				0.4			
55 - 56				0.4			
56 - 57				0.4			
57 - 58				0.4			
58 - 59				0.4			
59 - 60				0.4			
60 - 61				0.4			
61 - 62				0.4			
62 - 63				0.4			
63 - 64				0.4			
64 - 65				0.4			
65 - 66				0.4			
66 - 67				0.4			
67 - 68				0.4			
68 - 69				0.4			
69 - 70				0.4			
70 - 71				0.4			
71 - 72				0.4			
72 - 73				0.4			
73 - 74				0.4			
74 - 75				0.4			
75 - 76				0.4			
76 - 77				0.4			
77 - 78				0.4			
78 - 79				0.4			
79 - 80				0.4			
80 - 81				0.4			
81 - 82				0.4			
82 - 83				0.4			
83 - 84				0.4			
84 - 85				0.4			
85 - 86				0.4			
86 - 87				0.4			
87 - 88				0.4			
88 - 89				0.4			
89 - 90				0.4			
90 - 91				0.4			
91 - 92				0.4			
92 - 93				0.4			
93 - 94				0.4			
94 - 95				0.4			
95 - 96				0.4			
96 - 97				0.4			
97 - 98				0.4			
98 - 99				0.4			
99 - 100				0.4			

- LEGEND:**
- FILTER PACK
 - BENTONITE
 - CEMENT GROUT
 - CUTTINGS/BACKFILL
 - WATER LEVEL DURING DRILLING
 - WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 658.03'
 NORTHING: 152718.87
 EASTING: 1771784.61

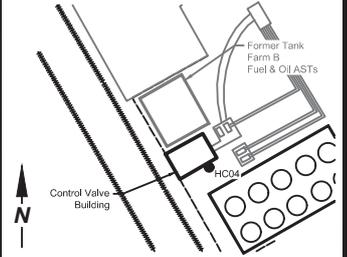


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC04**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0 - 5				0 0 0.1 0.1			
5 - 10				0.1 0.1			
10 - 12			HC04-07 HC04-09	34 196 2.5			
12 - 15			HC04-12	0.6			
15 - 30							

Gravel at ground surface

Sandy Silt (ML), Reddish brown (7.5YR 5-6), 60% non plastic silt, 20% fine sand, and 20% subrounded gravel and cobbles up to 4" in diameter, dry, no hydrocarbon odor.

Sandy Gravel (GP), Yellowish brown (7.5 YR 7/1), 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, no hydrocarbon odor.

Silty Sand (SM), Reddish brown (7.5YR 5/6), 70% medium to fine sand, 20% subrounded gravel up to 3" in diameter, and 10% non plastic silt, dry becomes wet at 9', strong hydrocarbon odor at 9'. Color change to gray at 7' and black at 9'.

Sandstone, Light gray (N5), medium to fine grained, massive, friable, moderately cemented, dry, no hydrocarbon odor. **Chumstick formation.**

End of boring at 12' bgs.

Boring backfilled with bentonite upon completion.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.65'
 NORTHING: 152732.47
 EASTING: 1771798.03

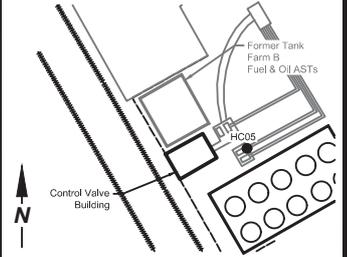


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC05**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0	Gravel at ground surface						
0.1 - 0.2	Sandy Silt (ML), Reddish brown (7.5YR 5-6), 60% non plastic silt, 20% fine sand, and 20% subrounded gravel and cobbles up to 4" in diameter, dry, no hydrocarbon odor.						
0.1 - 0.1	Sandy Gravel (GP), Yellowish brown (7.5 YR 7/1), 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, no hydrocarbon odor.						
0.1 - 0.1	Silty Sand (SM), Reddish brown (7.5YR 5/6), 70% medium to fine sand, 20% subrounded gravel up to 3" in diameter, and 10% non plastic silt, dry becomes wet at 11.5', strong hydrocarbon odor at 12'. Color change to gray at 12'.		HC05-10	3.6			
0.1 - 0.1							
0.1 - 0.1			HC05-12	110			
0.9							
0.4	Sandstone, Light gray (N5), medium to fine grained, massive, friable, moderately cemented, dry, no hydrocarbon odor. Chumstick formation.		HC05-15	0.4			
15	End of boring at 15' bgs. Boring backfilled with bentonite upon completion.						
20							
25							
30							

- LEGEND:**
- FILTER PACK
 - BENTONITE
 - CEMENT GROUT
 - CUTTINGS/BACKFILL
 - WATER LEVEL DURING DRILLING
 - WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.75'
 NORTHING: 152743.24
 EASTING: 1771819.32

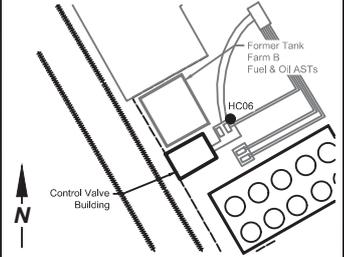


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC06**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0 - 0.1				0.1			
0.1 - 0.2				0.1			
0.2 - 0.3				0.1			
0.3 - 0.4				0.1			
0.4 - 0.5				0.1			
0.5 - 0.6				0.1			
0.6 - 0.7				0.1			
0.7 - 0.8				0.1			
0.8 - 0.9				0.1			
0.9 - 1.0				0.1			
1.0 - 1.1				0.1			
1.1 - 1.2				0.1			
1.2 - 1.3				0.1			
1.3 - 1.4				0.1			
1.4 - 1.5				0.1			
1.5 - 1.6				0.1			
1.6 - 1.7				0.1			
1.7 - 1.8				0.1			
1.8 - 1.9				0.1			
1.9 - 2.0				0.1			
2.0 - 2.1				0.1			
2.1 - 2.2				0.1			
2.2 - 2.3				0.1			
2.3 - 2.4				0.1			
2.4 - 2.5				0.1			
2.5 - 2.6				0.1			
2.6 - 2.7				0.1			
2.7 - 2.8				0.1			
2.8 - 2.9				0.1			
2.9 - 3.0				0.1			
3.0 - 3.1				0.1			
3.1 - 3.2				0.1			
3.2 - 3.3				0.1			
3.3 - 3.4				0.1			
3.4 - 3.5				0.1			
3.5 - 3.6				0.1			
3.6 - 3.7				0.1			
3.7 - 3.8				0.1			
3.8 - 3.9				0.1			
3.9 - 4.0				0.1			
4.0 - 4.1				0.1			
4.1 - 4.2				0.1			
4.2 - 4.3				0.1			
4.3 - 4.4				0.1			
4.4 - 4.5				0.1			
4.5 - 4.6				0.1			
4.6 - 4.7				0.1			
4.7 - 4.8				0.1			
4.8 - 4.9				0.1			
4.9 - 5.0				0.1			
5.0 - 5.1				0.1			
5.1 - 5.2				0.1			
5.2 - 5.3				0.1			
5.3 - 5.4				0.1			
5.4 - 5.5				0.1			
5.5 - 5.6				0.1			
5.6 - 5.7				0.1			
5.7 - 5.8				0.1			
5.8 - 5.9				0.1			
5.9 - 6.0				0.1			
6.0 - 6.1				0.1			
6.1 - 6.2				0.1			
6.2 - 6.3				0.1			
6.3 - 6.4				0.1			
6.4 - 6.5				0.1			
6.5 - 6.6				0.1			
6.6 - 6.7				0.1			
6.7 - 6.8				0.1			
6.8 - 6.9				0.1			
6.9 - 7.0				0.1			
7.0 - 7.1				0.1			
7.1 - 7.2				0.1			
7.2 - 7.3				0.1			
7.3 - 7.4				0.1			
7.4 - 7.5				0.1			
7.5 - 7.6				0.1			
7.6 - 7.7				0.1			
7.7 - 7.8				0.1			
7.8 - 7.9				0.1			
7.9 - 8.0				0.1			
8.0 - 8.1				0.1			
8.1 - 8.2				0.1			
8.2 - 8.3				0.1			
8.3 - 8.4				0.1			
8.4 - 8.5				0.1			
8.5 - 8.6				0.1			
8.6 - 8.7				0.1			
8.7 - 8.8				0.1			
8.8 - 8.9				0.1			
8.9 - 9.0				0.1			
9.0 - 9.1				0.1			
9.1 - 9.2				0.1			
9.2 - 9.3				0.1			
9.3 - 9.4				0.1			
9.4 - 9.5				0.1			
9.5 - 9.6				0.1			
9.6 - 9.7				0.1			
9.7 - 9.8				0.1			
9.8 - 9.9				0.1			
9.9 - 10.0				0.1			
10.0 - 10.1				0.1			
10.1 - 10.2				0.1			
10.2 - 10.3				0.1			
10.3 - 10.4				0.1			
10.4 - 10.5				0.1			
10.5 - 10.6				0.1			
10.6 - 10.7				0.1			
10.7 - 10.8				0.1			
10.8 - 10.9				0.1			
10.9 - 11.0				0.1			
11.0 - 11.1				0.1			
11.1 - 11.2				0.1			
11.2 - 11.3				0.1			
11.3 - 11.4				0.1			
11.4 - 11.5				0.1			
11.5 - 11.6				0.1			
11.6 - 11.7				0.1			
11.7 - 11.8				0.1			
11.8 - 11.9				0.1			
11.9 - 12.0				0.1			
12.0 - 12.1				0.1			
12.1 - 12.2				0.1			
12.2 - 12.3				0.1			
12.3 - 12.4				0.1			
12.4 - 12.5				0.1			
12.5 - 12.6				0.1			
12.6 - 12.7				0.1			
12.7 - 12.8				0.1			
12.8 - 12.9				0.1			
12.9 - 13.0				0.1			
13.0 - 13.1				0.1			
13.1 - 13.2				0.1			
13.2 - 13.3				0.1			
13.3 - 13.4				0.1			
13.4 - 13.5				0.1			
13.5 - 13.6				0.1			
13.6 - 13.7				0.1			
13.7 - 13.8				0.1			
13.8 - 13.9				0.1			
13.9 - 14.0				0.1			
14.0 - 14.1				0.1			
14.1 - 14.2				0.1			
14.2 - 14.3				0.1			
14.3 - 14.4				0.1			
14.4 - 14.5				0.1			
14.5 - 14.6				0.1			
14.6 - 14.7				0.1			
14.7 - 14.8				0.1			
14.8 - 14.9				0.1			
14.9 - 15.0				0.1			
15.0 - 15.1				0.1			
15.1 - 15.2				0.1			
15.2 - 15.3				0.1			
15.3 - 15.4				0.1			
15.4 - 15.5				0.1			
15.5 - 15.6				0.1			
15.6 - 15.7				0.1			
15.7 - 15.8				0.1			
15.8 - 15.9				0.1			
15.9 - 16.0				0.1			
16.0 - 16.1				0.1			
16.1 - 16.2				0.1			
16.2 - 16.3				0.1			
16.3 - 16.4				0.1			
16.4 - 16.5				0.1			
16.5 - 16.6				0.1			
16.6 - 16.7				0.1			
16.7 - 16.8				0.1			
16.8 - 16.9				0.1			
16.9 - 17.0				0.1			
17.0 - 17.1				0.1			
17.1 - 17.2				0.1			
17.2 - 17.3				0.1			
17.3 - 17.4				0.1			
17.4 - 17.5				0.1			
17.5 - 17.6				0.1			
17.6 - 17.7				0.1			
17.7 - 17.8				0.1			
17.8 - 17.9				0.1			
17.9 - 18.0				0.1			
18.0 - 18.1				0.1			
18.1 - 18.2				0.1			
18.2 - 18.3				0.1			
18.3 - 18.4				0.1			
18.4 - 18.5				0.1			
18.5 - 18.6				0.1			
18.6 - 18.7				0.1			
18.7 - 18.8				0.1			
18.8 - 18.9				0.1			
18.9 - 19.0				0.1			
19.0 - 19.1				0.1			
19.1 - 19.2				0.1			

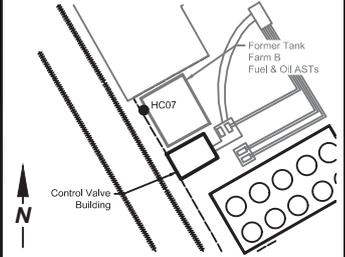


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC07**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0	Gravel at ground surface						
0.8 - 264	Sandy Silt (ML), Reddish brown (7.5YR 5-6), 60% non plastic silt, 20% fine sand, and 20% subrounded gravel and cobbles up to 4" in diameter, dry, no hydrocarbon odor.		HC07-03	0.8 264			
5 - 335	Sandy Gravel (GP), Reddish brown (7.5 YR 5/6), 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, no hydrocarbon odor.			335			
5.14 - 9.9	Silty Sand (SM), Gray, 70% medium to fine sand, 20% subrounded gravel up to 3" in diameter, and 10% non plastic silt, dry becomes moist to wet at 7.5', strong hydrocarbon odor. Color change to reddish brown at 9'. Petroleum contamination first observed at 3' bgs.		HC07-7.5	5.14 0.9 0.9			
13	Mudstone, Brownish gray, laminated, friable, planer fracturing, waxy, organic inclusions, dry, no hydrocarbon odor. Chumstick formation.			13			
15 - 0.9	Sandstone, Light gray (N5), medium to fine grained, massive, friable, moderatly cemented, dry, no hydrocarbon odor. Chumstick formation.		HC07-15	0.9 0.9			
15 - 30	End of boring at 15' bgs. Boring backfilled with bentonite upon completion.						

- LEGEND:**
- FILTER PACK
 - BENTONITE
 - CEMENT GROUT
 - CUTTINGS/BACKFILL
 - WATER LEVEL DURING DRILLING
 - WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 656.55'
 NORTHING: 152764.91
 EASTING: 1771760.65

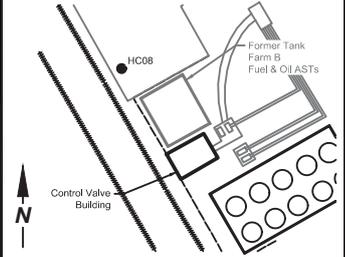


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC08**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

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
0							
0 - 1				0.1			
1 - 2				0.1			
2 - 3			HC08-04	0.1			
3 - 4				0.1			
4 - 5				0.1			
5 - 6				0.1			
6 - 7				0.1			
7 - 8				0.1			
8 - 9				0.1			
9 - 10			HC08-09	620			
10 - 11				6.8			
11 - 12			HC08-12	3.7			
12 - 13							
13 - 14							
14 - 15							
15 - 16							
16 - 17							
17 - 18							
18 - 19							
19 - 20							
20 - 21							
21 - 22							
22 - 23							
23 - 24							
24 - 25							
25 - 26							
26 - 27							
27 - 28							
28 - 29							
29 - 30							
30 - 31							
31 - 32							
32 - 33							
33 - 34							
34 - 35							
35 - 36							
36 - 37							
37 - 38							
38 - 39							
39 - 40							
40 - 41							
41 - 42							
42 - 43							
43 - 44							
44 - 45							
45 - 46							
46 - 47							
47 - 48							
48 - 49							
49 - 50							

Gravel at ground surface

Sandy Gravel (GP), Reddish brown (7.5 YR 5/6), 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, no hydrocarbon odor.

Silty Sand (SM), Reddish brown (7.5YR 5/6), 70% medium to fine sand, 20% subrounded gravel up to 3" in diameter, and 10% non plastic silt, dry becomes wet at 9', strong hydrocarbon odor at 9' bgs. Color change to gray at 9'.

Mudstone, Brownish gray, laminated, friable, planer fracturing, waxy, organic inclusions, dry, no hydrocarbon odor. **Chumstick formation**.

End of boring at 12' bgs.

Boring backfilled with bentonite upon completion.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 656.93'
 NORTHING: 152788.48
 EASTING: 1771748.18

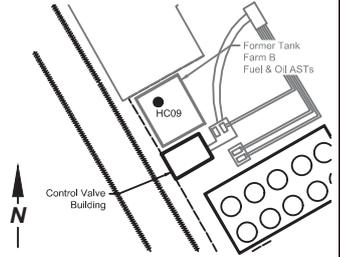


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC09**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0 - 1			HC09-02	705			
1 - 5				5.5			
5 - 30							

Gravel at ground surface

Sandy Gravel (GP), Gray, 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, strong hydrocarbon odor. Petroleum contamination first observed at 1' bgs.

Silty Sand (SM), Gray, 70% medium to fine sand, 20% subrounded gravel up to 3" in diameter, and 10% non plastic silt, dry.

End of boring at 5' bgs.

Boring backfilled with bentonite upon completion.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.56'
 NORTHING: 152769.39
 EASTING: 1771771.68

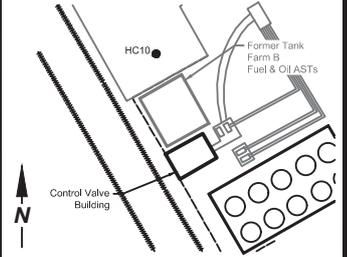


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC10**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0	Gravel at ground surface						
0.1 - 0.2	Sandy Gravel (GP), Reddish brown (7.5 YR 5/6), 55% subrounded gravel and cobbles up to 4" in diameter with 40% fine sand, and 5% nonplastic silt, dry, no hydrocarbon odor.						
0.3 - 1.1	Sand (SP), Yellowish brown (7.5YR 7/3), 85% medium to fine sand, 10% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry becomes moist at 9' wet at 12', moderate hydrocarbon odor at 12' bgs. Color change to gray at 9'. Fill material.		HC10-05				
1.1 - 1.1							
1.1 - 1.1							
1.1 - 1.1							
1.1 - 1.1							
1.1 - 5.6			HC10-12	56			
5.6 - 15.0	Mudstone, Brownish gray, laminated, friable, planer fracturing, waxy, organic inclusions, dry, no hydrocarbon odor. Chumstick formation.						
15.0 - 15.0	End of boring at 15' bgs. Boring backfilled with bentonite upon completion.		HC10-15	0.3			
15.0 - 30.0							

- LEGEND:**
- FILTER PACK
 - BENTONITE
 - CEMENT GROUT
 - CUTTINGS/BACKFILL
 - WATER LEVEL DURING DRILLING
 - WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 655.47'
 NORTHING: 152796.81
 EASTING: 1771768.22

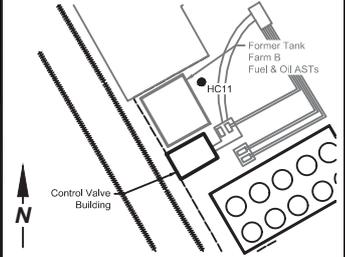


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC11**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0	Gravel at ground surface						
0 - 9	Sand (SP), Yellowish brown (7.5YR 7/3), 85% medium to fine sand, 10% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry. Fill material.		HC11-06	0.1 0.1 0.1 0.1 0.4 0.4 0.1 0.1			
9 - 10	Sandy Gravel (GP), 5/8" minus crushed rock from 9 to 10' bgs. Fill Material.						
10 - 14	Sand (SP), Yellowish brown (7.5YR 7/3), 85% medium to fine sand, 10% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry. Fill material.		HC11-11	656 284			
14 - 15	Sandstone, Brownish gray, 85% medium to fine sand, 10% subrounded gravel up to 2" diameter, 5% non plastic silt, wet, strong hydrocarbon odor. Chumstick Formation.		HC11-15	0.1 0.1			
15 - 30	End of boring at 15' bgs. Boring backfilled with bentonite upon completion.						

- LEGEND:**
- FILTER PACK
 - BENTONITE
 - CEMENT GROUT
 - CUTTINGS/BACKFILL
 - WATER LEVEL DURING DRILLING
 - WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.77'
 NORTHING: 152780.80
 EASTING: 1771793.19

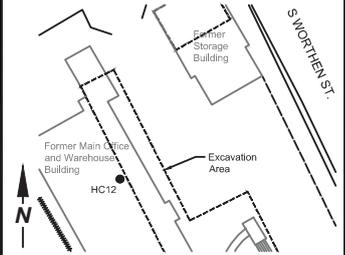


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **HC12**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.) SYMBOL WELL DETAILS SAMPLE ID PID FIRST WATER BLOW COUNTS

BOREHOLE/WELL CONSTRUCTION DETAILS

Gravel at ground surface

Sand (SP), Yellowish brown (7.5YR 7/3), 85% medium to fine sand, 10% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry becomes moist at 9' wet at 12', strong hydrocarbon odor at 12' bgs. **Fill material.**

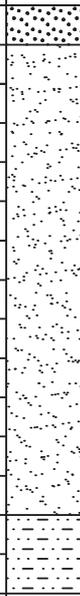
Sandstone boulder from 9 to 10.5' bgs.

Sandstone, Light gray (N5), medium to fine grained, massive, friable, moderately cemented, dry, no hydrocarbon odor. **Chumstick formation.**

End of boring at 15' bgs.

Boring backfilled with bentonite upon completion.

0
5
10
15
20
25
30



HC12-08

0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1

HC12-12

347

HC12-15

12
4.3

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 4 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.60'
 NORTHING: 152847.66
 EASTING: 1771750.72

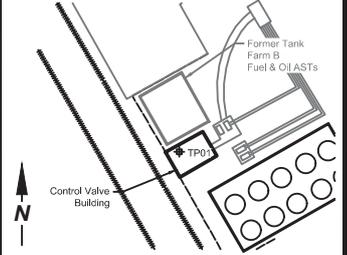


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **TP01**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.) SYMBOL WELL DETAILS SAMPLE ID PID FIRST WATER BLOW COUNTS

BOREHOLE/WELL CONSTRUCTION DETAILS

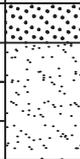
Gravel at ground surface. Petroleum contamination first observed at ground surface.

Gravelly Sand (SP), Dark brown, 70% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, strong hydrocarbon odor, sheen visible on soil.

End of test pit at 4' bgs.

Test pit was backfilled with excavated soil.

0
5
10
15
20
25
30



TP01-02 1005
 TP01-04 845

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.38'
 NORTHING: 152740.23
 EASTING: 1771781.26

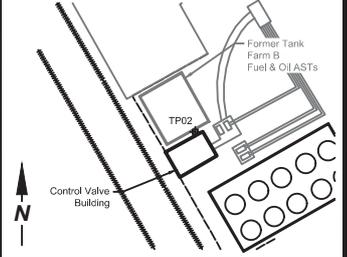


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **TP02**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0 - 9.6			TP02-02	9.6			
9.6 - 0			TP02-04	0			
0 - 4							
4 - 30							

Gravel at ground surface

Gravelly Sand (SP), Brown, 70% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, no hydrocarbon odor.

End of test pit at 4' bgs.

Test pit was backfilled with excavated soil.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

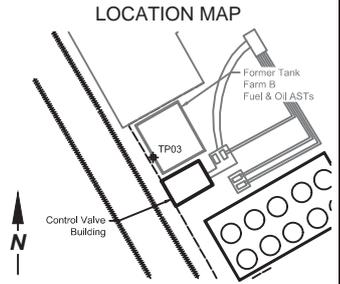
CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.62'
 NORTHING: 152751.42
 EASTING: 1771790.23



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

WELL/BORING NUMBER **TP03**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
			TP03-02	0.2			
			TP03-04	0.9			
5							
10							
15							
20							
25							
30							

Gravel at ground surface

Gravelly Sand (SP), Brown, 70% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, no hydrocarbon odor. No visual or olfactory indications of petroleum contamination.

End of test pit at 4' bgs.

Test pit was backfilled with excavated soil.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.30'
 NORTHING: 152753.48
 EASTING: 1771768.86

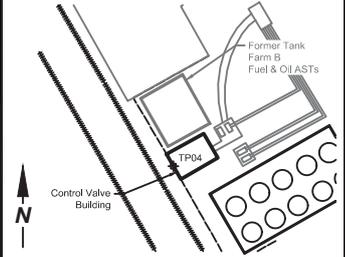


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **TP04**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
0.5			TP04-02	165			
4			TP04-04	618			
5							
10							
15							
20							
25							
30							

Gravel at ground surface. Petroleum contamination first observed at 0.5' bgs.

Gravelly Sand (SP), Dark brown, 70% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, strong hydrocarbon odor.

End of test pit at 4' bgs.

Test pit was backfilled with excavated soil.

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.28'
 NORTHING: 152733.20
 EASTING: 1771777.44

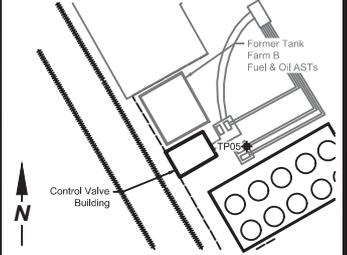


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **TP05**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.) SYMBOL WELL DETAILS SAMPLE ID PID FIRST WATER BLOW COUNTS

BOREHOLE/WELL CONSTRUCTION DETAILS

Gravel at ground surface

Gravelly Sand (SP), Brown, 65% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, no hydrocarbon odor.

End of test pit at 2' bgs.

Test pit was backfilled with excavated soil.

0
5
10
15
20
25
30

TP05-02 4.4

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.75'
 NORTHING: 152743.24
 EASTING: 1771819.32

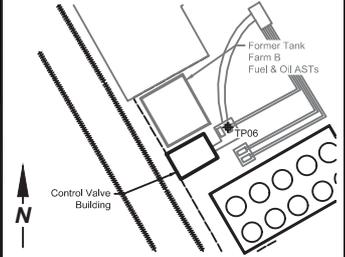


314 West 15th Street, Suite 300
 Vancouver, WA. 98660
 Phone: 360-703-6079

WELL/BORING NUMBER **TP06**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (F.T.) SYMBOL WELL DETAILS SAMPLE ID PID FIRST WATER BLOW COUNTS

BOREHOLE/WELL CONSTRUCTION DETAILS

Gravel at ground surface

Gravelly Sand (SP), Brown, 65% fine to medium sand, 25% subrounded gravel up to 2" in diameter, and 5% non plastic silt, dry, no hydrocarbon odor.

Boulder at 2' bgs.

End of test pit at 2' bgs.

Test pit was backfilled with excavated soil.

0
5
10
15
20
25
30

TP06-02 2.6

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: Clark Construction
 DRILLING METHOD: Excavator
 BOREHOLE DIAMETER: 18 Inch
 SAMPLING METHOD: Excavator Bucket
 WELL TAG ID: --

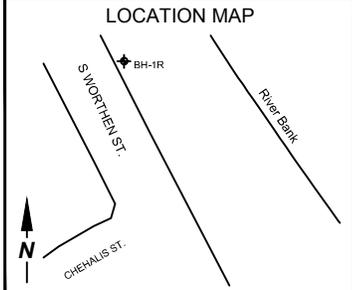
CASING ELEVATION: --
 GROUND SURFACE ELEVATION: 657.67'
 NORTHING: 152755.22
 EASTING: 1771808.10



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

WELL/BORING NUMBER **BH01R**

PROJECT NAME: Coleman Oil
 PROJECT NUMBER: 2017-074
 PROJECT LOCATION: Wenatchee, WA
 LOGGED BY: R. Honsberger
 REVIEWED BY: C. Hultgren
 DATE: 1-27-19



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

Over Drill existing well BH-01R to 30' bgs.

BH-01R continues at 30' bgs.

Mudstone, Dark brown, laminated, friable, planer fracturing, waxy, organic material, dry, no hydrocarbon odor.

Sandstone, Gray, medium to fine grained, massive, well cemented, micacious, dry, no hydrocarbon odor.

Mudstone, Dark brown, laminated, friable, planer fracturing, waxy, organic material, dry, no hydrocarbon odor.

Sandstone, Gray, medium to fine grained, massive, well cemented, micacious, dry, no hydrocarbon odor.

End of boring at 40.03' bgs.

BH01R-32

BH01R-37

0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1

WELL CONSTRUCTION

Depths (feet bgs)

Borehole: 40'
 Sump: 39.97 to 39.52
 Screen: 39.52 to 14.52
 Casing: 14.52 to 0
 Backfill:
 Sand Pack: 39.97 to 12.5
 Bentonite: 12.5 to 3
 Concrete:
 Stabilizers:

MATERIALS USED

Casing: 4" PVC
 Well Screen: 0.010 slot
 End Cap: Flat sump
 Sand Pack: 18 60lb bags 10-20 Silica
 Bentonite: 5 60lb bags
 Concrete:
 Monument: Vault
 Well Cap: J-plug
 Other:

LEGEND:

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS/BACKFILL
- WATER LEVEL DURING DRILLING
- WATER LEVEL AFTER DRILLING

DRILLING CONTRACTOR: AEC
 DRILLING METHOD: Sonic
 BOREHOLE DIAMETER: 8 Inch
 SAMPLING METHOD: Core Barrel
 WELL TAG ID: BLN736

CASING ELEVATION: 651.03
 GROUND SURFACE ELEVATION: 652.05
 NORTHING: 153118.4
 EASTING: 1771784.0

APPENDIX C
WELL DEVELOPMENT FORMS



WELL DEVELOPMENT

Well ID #: <u>BH-1R</u>	Project name: <u>Culman o.i</u>
Date: <u>1-11-19</u>	Project #: <u>2017-074</u>
Time: <u>0800</u>	Engineer: <u>RLH</u>

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 40 ft Clean bottom Muddy bottom Not measured

Depth to product - ft

Depth to water 25 ft

Casing volume 15 ft (H₂O) X 0.65 gpf = 9.75

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 Monofilament Other _____

Purge start time 0840 Purge stop time 1000 Purge Rate (GPM) 1.0 to 0.5

Total Volume Purged (gallons) approx 30

FIELD PARAMETERS

Meters used FlowThru Cell Hach Hanna Other NR

Gallons pH Temp. Conductivity Turbidity Dissolved Oxygen ORP

~~_____~~

~~_____~~

~~_____~~

~~_____~~

NOTES/COMMENTS

Well was serviced by the remediation pump. Initially a high silt load that cleared up to clear in approx 30 min. Remediate pump continued to pump following development.

Engineer's Signature [Signature] Date 1-11-19

APPENDIX D

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Monday, January 21, 2019
Craig Hultgren
HydroCon LLC
314 W 15th Street Suite 300
Vancouver, WA 98660

RE: A9A0293 - 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 A9A0293, which was received by the laboratory on 1/11/2019 at 10:20:00AM.

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	2.4 degC	Cooler #2	1.1 degC
Cooler #3	2.1 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

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

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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

Project: Coleman Wenatchee
Project Number: 2017-074
Project Manager: Craig Hultgren

Report ID:
A9A0293 - 01 21 19 0939

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HC03-07	A9A0293-01	Soil	01/08/19 09:20	01/11/19 10:20
HC03-10	A9A0293-02	Soil	01/08/19 09:30	01/11/19 10:20
HC03-15	A9A0293-03	Soil	01/08/19 09:40	01/11/19 10:20
HC04-07	A9A0293-04	Soil	01/08/19 10:50	01/11/19 10:20
HC04-09	A9A0293-05	Soil	01/08/19 10:55	01/11/19 10:20
HC04-12	A9A0293-06	Soil	01/08/19 11:00	01/11/19 10:20
HC05-10	A9A0293-07	Soil	01/08/19 11:30	01/11/19 10:20
HC05-12	A9A0293-08	Soil	01/08/19 11:40	01/11/19 10:20
HC05-15	A9A0293-09	Soil	01/08/19 11:45	01/11/19 10:20
HC06-09	A9A0293-10	Soil	01/08/19 12:15	01/11/19 10:20
HC06-12	A9A0293-11	Soil	01/08/19 12:20	01/11/19 10:20
HC06-15	A9A0293-12	Soil	01/08/19 12:25	01/11/19 10:20
HC07-03	A9A0293-13	Soil	01/09/19 08:40	01/11/19 10:20
HC07-05	A9A0293-14	Soil	01/09/19 08:45	01/11/19 10:20
HC07-15	A9A0293-15	Soil	01/09/19 08:55	01/11/19 10:20
HC08-04	A9A0293-16	Soil	01/09/19 09:35	01/11/19 10:20
HC08-09	A9A0293-17	Soil	01/09/19 09:40	01/11/19 10:20
HC08-12	A9A0293-18	Soil	01/09/19 09:45	01/11/19 10:20
HC09-02	A9A0293-19	Soil	01/09/19 10:15	01/11/19 10:20
HC10-05	A9A0293-20	Soil	01/09/19 10:40	01/11/19 10:20
HC10-12	A9A0293-21	Soil	01/09/19 10:50	01/11/19 10:20
HC10-15	A9A0293-22	Soil	01/09/19 10:55	01/11/19 10:20
HC11-06	A9A0293-23	Soil	01/09/19 11:20	01/11/19 10:20
HC11-11	A9A0293-24	Soil	01/09/19 11:25	01/11/19 10:20
HC11-15	A9A0293-25	Soil	01/09/19 11:30	01/11/19 10:20
HC12-08	A9A0293-26	Soil	01/09/19 13:10	01/11/19 10:20
HC12-12	A9A0293-27	Soil	01/09/19 13:15	01/11/19 10:20
HC12-15	A9A0293-28	Soil	01/09/19 13:20	01/11/19 10:20
BH-1R-32	A9A0293-29	Soil	01/10/19 13:10	01/11/19 10:20
BH-R-37	A9A0293-30	Soil	01/10/19 13:15	01/11/19 10:20

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
HC03-07 (A9A0293-01)				Matrix: Soil		Batch: 9010728		
Diesel	ND	---	25.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/16/19</i>	<i>NWTPH-Dx</i>
HC03-10 (A9A0293-02RE1)				Matrix: Soil		Batch: 9010728		
Diesel	3240	---	108	mg/kg dry	5	01/16/19	NWTPH-Dx	F-13
Oil	ND	---	216	mg/kg dry	5	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>01/16/19</i>	<i>NWTPH-Dx S-05</i>
HC03-15 (A9A0293-03)				Matrix: Soil		Batch: 9010728		
Diesel	ND	---	25.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/16/19</i>	<i>NWTPH-Dx</i>
HC04-07 (A9A0293-04RE1)				Matrix: Soil		Batch: 9010728		
Diesel	631	---	518	mg/kg dry	25	01/16/19	NWTPH-Dx	F-15
Oil	4640	---	1040	mg/kg dry	25	01/16/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>25</i>	<i>01/16/19</i>	<i>NWTPH-Dx S-01</i>
HC04-09 (A9A0293-05)				Matrix: Soil		Batch: 9010728		
Diesel	6400	---	435	mg/kg dry	20	01/16/19	NWTPH-Dx	
Oil	ND	---	869	mg/kg dry	20	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>20</i>	<i>01/16/19</i>	<i>NWTPH-Dx S-01</i>
HC04-12 (A9A0293-06)				Matrix: Soil		Batch: 9010728		
Diesel	ND	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC05-10 (A9A0293-07)				Matrix: Soil		Batch: 9010728		
Diesel	130	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	F-11, F-15
Oil	62.9	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC05-12 (A9A0293-08)				Matrix: Soil		Batch: 9010728		
Diesel	2210	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	F-15

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
HC05-12 (A9A0293-08)				Matrix: Soil		Batch: 9010728		
Oil	316	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC05-15 (A9A0293-09)				Matrix: Soil		Batch: 9010728		
Diesel	ND	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC06-09 (A9A0293-10)				Matrix: Soil		Batch: 9010728		
Diesel	1750	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC06-12 (A9A0293-11)				Matrix: Soil		Batch: 9010728		
Diesel	5560	---	208	mg/kg dry	10	01/15/19	NWTPH-Dx	
Oil	ND	---	416	mg/kg dry	10	01/15/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>10</i>	<i>01/15/19</i>	<i>NWTPH-Dx S-05</i>
HC06-15 (A9A0293-12)				Matrix: Soil		Batch: 9010741		
Diesel	ND	---	25.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/15/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/15/19</i>	<i>NWTPH-Dx</i>
HC07-03 (A9A0293-13)				Matrix: Soil		Batch: 9010832		
Diesel	1780	---	25.0	mg/kg dry	1	01/18/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/18/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/18/19</i>	<i>NWTPH-Dx</i>
HC07-05 (A9A0293-14RE1)				Matrix: Soil		Batch: 9010832		
Diesel	2740	---	96.3	mg/kg dry	5	01/18/19	NWTPH-Dx	
Oil	ND	---	193	mg/kg dry	5	01/18/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>01/18/19</i>	<i>NWTPH-Dx</i>
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010832		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010832		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/17/19</i>	<i>NWTPH-Dx</i>
HC08-04 (A9A0293-16)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/16/19</i>	<i>NWTPH-Dx</i>
HC08-09 (A9A0293-17)				Matrix: Soil		Batch: 9010786		
Diesel	9150	---	115	mg/kg dry	5	01/16/19	NWTPH-Dx	
Oil	ND	---	230	mg/kg dry	5	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>01/16/19</i>	<i>NWTPH-Dx</i>
HC08-12 (A9A0293-18)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/16/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/16/19</i>	<i>NWTPH-Dx</i>
HC09-02 (A9A0293-19RE2)				Matrix: Soil		Batch: 9010786		
Diesel	3320	---	97.4	mg/kg dry	5	01/17/19	NWTPH-Dx	F-15
Oil	515	---	195	mg/kg dry	5	01/17/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>01/17/19</i>	<i>NWTPH-Dx</i>
HC10-05 (A9A0293-20)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/17/19</i>	<i>NWTPH-Dx</i>
HC10-12 (A9A0293-21)				Matrix: Soil		Batch: 9010786		
Diesel	84.5	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/17/19</i>	<i>NWTPH-Dx</i>
HC10-15 (A9A0293-22)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	51.7	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-03

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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
HC10-15 (A9A0293-22)				Matrix: Soil		Batch: 9010786		
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>
HC11-06 (A9A0293-23)				Matrix: Soil		Batch: 9010786		
Diesel	45.0	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-11, F-15
Oil	1110	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>
HC11-11 (A9A0293-24RE1)				Matrix: Soil		Batch: 9010786		
Diesel	6760	---	199	mg/kg dry	10	01/17/19	NWTPH-Dx	F-15
Oil	1740	---	397	mg/kg dry	10	01/17/19	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 50-150 %</i>		<i>10 01/17/19</i>		<i>NWTPH-Dx S-05</i>
HC11-15 (A9A0293-25)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>
HC12-08 (A9A0293-26)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>
HC12-12 (A9A0293-27RE1)				Matrix: Soil		Batch: 9010786		
Diesel	3790	---	219	mg/kg dry	10	01/17/19	NWTPH-Dx	F-13
Oil	ND	---	439	mg/kg dry	10	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>10 01/17/19</i>		<i>NWTPH-Dx S-05</i>
HC12-15 (A9A0293-28)				Matrix: Soil		Batch: 9010786		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>
BH-1R-32 (A9A0293-29)				Matrix: Soil		Batch: 9010832		
Diesel	73.5	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-13, F-15
Oil	125	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-03, F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>1 01/17/19</i>		<i>NWTPH-Dx</i>

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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
BH-R-37 (A9A0293-30)				Matrix: Soil		Batch: 9010832		
Diesel	400	---	25.0	mg/kg dry	1	01/17/19	NWTPH-Dx	F-13
Oil	ND	---	50.0	mg/kg dry	1	01/17/19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/17/19</i>	<i>NWTPH-Dx</i>

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.



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
HC03-07 (A9A0293-01)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	ND	---	5.02	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 102 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		90 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC03-10 (A9A0293-02RE1)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	3550	---	89.5	mg/kg dry	1000	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 147 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		100 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC03-15 (A9A0293-03RE1)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	ND	---	5.08	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC04-07 (A9A0293-04)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	152	---	5.27	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		94 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC04-09 (A9A0293-05)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	1070	---	101	mg/kg dry	1000	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 109 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		95 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC04-12 (A9A0293-06)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	ND	---	4.98	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		90 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC05-10 (A9A0293-07)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	ND	---	5.63	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		89 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC05-12 (A9A0293-08)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	101	---	5.37	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
HC05-12 (A9A0293-08)				Matrix: Soil		Batch: 9010726		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 119 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		89 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC05-15 (A9A0293-09)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	55.4	---	5.47	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 114 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		92 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC06-09 (A9A0293-10)				Matrix: Soil		Batch: 9010726		
Gasoline Range Organics	17.6	---	4.94	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 104 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		91 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC06-12 (A9A0293-11)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	1900	---	20.7	mg/kg dry	200	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 119 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		153 %	50-150 %	1	01/15/19	NWTPH-Gx (MS) S-08		
HC06-15 (A9A0293-12RE1)				Matrix: Soil		Batch: 9010767		
Gasoline Range Organics	ND	---	5.28	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)		
HC07-03 (A9A0293-13)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	712	---	20.7	mg/kg dry	200	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 130 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		98 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC07-05 (A9A0293-14)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	1270	---	18.5	mg/kg dry	200	01/15/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 165 %	Limits: 50-150 %	1	01/15/19	NWTPH-Gx (MS) S-08		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	01/15/19	NWTPH-Gx (MS)		
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010754		
Gasoline Range Organics	ND	---	4.92	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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	
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010754			
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	1	01/15/19	NWTPH-Gx (MS)		
HC08-04 (A9A0293-16)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	4.43	mg/kg dry	50	01/15/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	1	01/15/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		87 %	50-150 %	1	1	01/15/19	NWTPH-Gx (MS)		
HC08-09 (A9A0293-17RE1)				Matrix: Soil		Batch: 9010767			
Gasoline Range Organics	1260	---	56.2	mg/kg dry	500	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 137 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		98 %	50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
HC08-12 (A9A0293-18)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	5.35	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 100 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		90 %	50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
HC09-02 (A9A0293-19)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	12200	---	186	mg/kg dry	2000	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 140 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		99 %	50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
HC10-05 (A9A0293-20)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	4.92	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
HC10-12 (A9A0293-21)				Matrix: Soil		Batch: 9010753			V-16
Gasoline Range Organics	17.6	---	5.84	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 110 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		92 %	50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		
HC10-15 (A9A0293-22)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	6.88	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	1	01/16/19	NWTPH-Gx (MS)		

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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	
HC10-15 (A9A0293-22)				Matrix: Soil		Batch: 9010754			
Surrogate: 1,4-Difluorobenzene (Sur)		Recovery: 89 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC11-06 (A9A0293-23)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	4.94	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC11-11 (A9A0293-24)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	1520	---	21.4	mg/kg dry	200	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 141 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		125 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC11-15 (A9A0293-25RE1)				Matrix: Soil		Batch: 9010767			
Gasoline Range Organics	ND	---	4.95	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		87 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC12-08 (A9A0293-26)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	627	---	11.5	mg/kg dry	200	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 150 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		92 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC12-12 (A9A0293-27RE1)				Matrix: Soil		Batch: 9010765			V-15
Gasoline Range Organics	1190	---	56.7	mg/kg dry	500	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 135 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		95 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
HC12-15 (A9A0293-28)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	5.16	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 100 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		87 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			
BH-1R-32 (A9A0293-29)				Matrix: Soil		Batch: 9010754			
Gasoline Range Organics	ND	---	5.77	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)			
1,4-Difluorobenzene (Sur)		86 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)			

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
BH-R-37 (A9A0293-30)				Matrix: Soil	Batch: 9010754			
Gasoline Range Organics	108	---	5.07	mg/kg dry	50	01/16/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	125 %	Limits: 50-150 %	1	01/16/19	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			91 %	50-150 %	1	01/16/19	NWTPH-Gx (MS)	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC03-07 (A9A0293-01)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0100	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0502	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0251	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0754	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC03-10 (A9A0293-02RE1)				Matrix: Soil		Batch: 9010754		R-04
Benzene	ND	---	0.179	mg/kg dry	1000	01/15/19	5035A/8260C	
Toluene	ND	---	0.895	mg/kg dry	1000	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.447	mg/kg dry	1000	01/15/19	5035A/8260C	
Xylenes, total	ND	---	1.34	mg/kg dry	1000	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC03-15 (A9A0293-03)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0102	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0508	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0254	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0762	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC04-07 (A9A0293-04)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0105	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0527	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0264	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	1.40	---	0.0791	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC04-09 (A9A0293-05)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.203	mg/kg dry	1000	01/15/19	5035A/8260C	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC04-09 (A9A0293-05)				Matrix: Soil		Batch: 9010726		
Toluene	ND	---	1.01	mg/kg dry	1000	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.507	mg/kg dry	1000	01/15/19	5035A/8260C	
Xylenes, total	10.2	---	1.52	mg/kg dry	1000	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC04-12 (A9A0293-06)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.00996	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0498	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0249	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0747	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC05-10 (A9A0293-07)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0113	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0563	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0281	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0844	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC05-12 (A9A0293-08)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0107	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0537	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0269	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0806	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC05-15 (A9A0293-09)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.0109	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0547	mg/kg dry	50	01/15/19	5035A/8260C	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC05-15 (A9A0293-09)				Matrix: Soil		Batch: 9010726		
Ethylbenzene	ND	---	0.0274	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0821	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
HC06-09 (A9A0293-10)				Matrix: Soil		Batch: 9010726		
Benzene	ND	---	0.00987	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0494	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0247	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0740	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
HC06-12 (A9A0293-11)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0414	mg/kg dry	200	01/15/19	5035A/8260C	
Toluene	ND	---	0.207	mg/kg dry	200	01/15/19	5035A/8260C	
Ethylbenzene	0.968	---	0.104	mg/kg dry	200	01/15/19	5035A/8260C	
Xylenes, total	53.6	---	0.311	mg/kg dry	200	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>	
HC06-15 (A9A0293-12RE1)				Matrix: Soil		Batch: 9010767		
Benzene	ND	---	0.0106	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0528	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0264	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0792	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
HC07-03 (A9A0293-13)				Matrix: Soil		Batch: 9010754		
Benzene	0.0913	---	0.0415	mg/kg dry	200	01/15/19	5035A/8260C	
Toluene	ND	---	0.207	mg/kg dry	200	01/15/19	5035A/8260C	
Ethylbenzene	0.373	---	0.104	mg/kg dry	200	01/15/19	5035A/8260C	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC07-03 (A9A0293-13)				Matrix: Soil		Batch: 9010754		
Xylenes, total	2.17	---	0.311	mg/kg dry	200	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC07-05 (A9A0293-14)				Matrix: Soil		Batch: 9010754		
Benzene	0.159	---	0.0369	mg/kg dry	200	01/15/19	5035A/8260C	
Toluene	ND	---	0.185	mg/kg dry	200	01/15/19	5035A/8260C	
Ethylbenzene	0.367	---	0.0923	mg/kg dry	200	01/15/19	5035A/8260C	
Xylenes, total	3.53	---	0.277	mg/kg dry	200	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.00983	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0492	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0246	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0737	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC08-04 (A9A0293-16)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.00887	mg/kg dry	50	01/15/19	5035A/8260C	
Toluene	ND	---	0.0443	mg/kg dry	50	01/15/19	5035A/8260C	
Ethylbenzene	ND	---	0.0222	mg/kg dry	50	01/15/19	5035A/8260C	
Xylenes, total	ND	---	0.0665	mg/kg dry	50	01/15/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/15/19</i>	<i>5035A/8260C</i>
HC08-09 (A9A0293-17RE1)				Matrix: Soil		Batch: 9010767		R-04
Benzene	ND	---	0.112	mg/kg dry	500	01/16/19	5035A/8260C	
Toluene	ND	---	0.562	mg/kg dry	500	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.281	mg/kg dry	500	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.843	mg/kg dry	500	01/16/19	5035A/8260C	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC08-09 (A9A0293-17RE1)				Matrix: Soil		Batch: 9010767		R-04
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
HC08-12 (A9A0293-18)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0107	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0535	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0267	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0802	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
HC09-02 (A9A0293-19)				Matrix: Soil		Batch: 9010754		
Benzene	2.35	---	0.372	mg/kg dry	2000	01/16/19	5035A/8260C	
Toluene	9.46	---	1.86	mg/kg dry	2000	01/16/19	5035A/8260C	
Ethylbenzene	41.4	---	0.931	mg/kg dry	2000	01/16/19	5035A/8260C	
Xylenes, total	307	---	2.79	mg/kg dry	2000	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
HC10-05 (A9A0293-20)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.00984	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0492	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0246	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0738	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	
HC10-12 (A9A0293-21)				Matrix: Soil		Batch: 9010753		V-16
Benzene	ND	---	0.0117	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0584	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0292	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0876	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC10-12 (A9A0293-21)				Matrix: Soil			Batch: 9010753	V-16
<i>Surrogate: Toluene-d8 (Surr)</i>			Recovery: 97 %	Limits: 80-120 %	1	01/16/19	5035A/8260C	
<i>4-Bromofluorobenzene (Surr)</i>			107 %	80-120 %	1	01/16/19	5035A/8260C	
HC10-15 (A9A0293-22)				Matrix: Soil			Batch: 9010754	
Benzene	ND	---	0.0138	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0688	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0344	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.103	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			Recovery: 93 %	Limits: 80-120 %	1	01/16/19	5035A/8260C	
<i>Toluene-d8 (Surr)</i>			97 %	80-120 %	1	01/16/19	5035A/8260C	
<i>4-Bromofluorobenzene (Surr)</i>			104 %	80-120 %	1	01/16/19	5035A/8260C	
HC11-06 (A9A0293-23)				Matrix: Soil			Batch: 9010754	
Benzene	ND	---	0.00987	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0494	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0247	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0741	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			Recovery: 93 %	Limits: 80-120 %	1	01/16/19	5035A/8260C	
<i>Toluene-d8 (Surr)</i>			98 %	80-120 %	1	01/16/19	5035A/8260C	
<i>4-Bromofluorobenzene (Surr)</i>			101 %	80-120 %	1	01/16/19	5035A/8260C	
HC11-11 (A9A0293-24)				Matrix: Soil			Batch: 9010754	
Benzene	1.12	---	0.0428	mg/kg dry	200	01/16/19	5035A/8260C	
Toluene	ND	---	0.214	mg/kg dry	200	01/16/19	5035A/8260C	
Ethylbenzene	0.567	---	0.107	mg/kg dry	200	01/16/19	5035A/8260C	
Xylenes, total	34.2	---	0.321	mg/kg dry	200	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			Recovery: 96 %	Limits: 80-120 %	1	01/16/19	5035A/8260C	
<i>Toluene-d8 (Surr)</i>			97 %	80-120 %	1	01/16/19	5035A/8260C	
<i>4-Bromofluorobenzene (Surr)</i>			106 %	80-120 %	1	01/16/19	5035A/8260C	
HC11-15 (A9A0293-25RE1)				Matrix: Soil			Batch: 9010767	
Benzene	ND	---	0.00990	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0495	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0248	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0743	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			Recovery: 93 %	Limits: 80-120 %	1	01/16/19	5035A/8260C	
<i>Toluene-d8 (Surr)</i>			97 %	80-120 %	1	01/16/19	5035A/8260C	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC11-15 (A9A0293-25RE1)				Matrix: Soil		Batch: 9010767		
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
HC12-08 (A9A0293-26)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0231	mg/kg dry	200	01/16/19	5035A/8260C	
Toluene	ND	---	0.115	mg/kg dry	200	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0577	mg/kg dry	200	01/16/19	5035A/8260C	
Xylenes, total	2.43	---	0.173	mg/kg dry	200	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
HC12-12 (A9A0293-27)				Matrix: Soil		Batch: 9010753		V-15
Benzene	ND	---	0.0113	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0567	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	0.0458	---	0.0283	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	2.80	---	0.0850	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>Toluene-d8 (Surr)</i>		<i>92 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>4-Bromofluorobenzene (Surr)</i>		<i>110 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
HC12-15 (A9A0293-28)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0103	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0516	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0258	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0774	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
BH-1R-32 (A9A0293-29)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0115	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0577	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0288	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0865	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>		

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BH-R-37 (A9A0293-30)				Matrix: Soil		Batch: 9010754		
Benzene	ND	---	0.0101	mg/kg dry	50	01/16/19	5035A/8260C	
Toluene	ND	---	0.0507	mg/kg dry	50	01/16/19	5035A/8260C	
Ethylbenzene	ND	---	0.0253	mg/kg dry	50	01/16/19	5035A/8260C	
Xylenes, total	ND	---	0.0760	mg/kg dry	50	01/16/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/16/19</i>	<i>5035A/8260C</i>

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC03-07 (A9A0293-01)				Matrix: Soil			Batch: 9010723	
% Solids	91.8	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC03-10 (A9A0293-02)				Matrix: Soil			Batch: 9010723	
% Solids	87.9	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC03-15 (A9A0293-03)				Matrix: Soil			Batch: 9010723	
% Solids	93.9	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC04-07 (A9A0293-04)				Matrix: Soil			Batch: 9010723	
% Solids	84.4	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC04-09 (A9A0293-05)				Matrix: Soil			Batch: 9010723	
% Solids	85.3	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC04-12 (A9A0293-06)				Matrix: Soil			Batch: 9010723	
% Solids	95.2	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC05-10 (A9A0293-07)				Matrix: Soil			Batch: 9010723	
% Solids	88.0	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC05-12 (A9A0293-08)				Matrix: Soil			Batch: 9010723	
% Solids	89.0	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC05-15 (A9A0293-09)				Matrix: Soil			Batch: 9010723	
% Solids	88.8	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC06-09 (A9A0293-10)				Matrix: Soil			Batch: 9010723	
% Solids	96.3	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC06-12 (A9A0293-11)				Matrix: Soil			Batch: 9010723	
% Solids	89.4	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC06-15 (A9A0293-12)				Matrix: Soil			Batch: 9010723	
% Solids	90.4	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC07-03 (A9A0293-13)				Matrix: Soil			Batch: 9010723	

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC07-03 (A9A0293-13)				Matrix: Soil		Batch: 9010723		
% Solids	88.5	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC07-05 (A9A0293-14)				Matrix: Soil		Batch: 9010723		
% Solids	93.1	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC07-15 (A9A0293-15)				Matrix: Soil		Batch: 9010723		
% Solids	92.6	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC08-04 (A9A0293-16)				Matrix: Soil		Batch: 9010723		
% Solids	95.7	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC08-09 (A9A0293-17)				Matrix: Soil		Batch: 9010723		
% Solids	82.1	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC08-12 (A9A0293-18)				Matrix: Soil		Batch: 9010723		
% Solids	90.5	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC09-02 (A9A0293-19)				Matrix: Soil		Batch: 9010723		
% Solids	94.0	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC10-05 (A9A0293-20)				Matrix: Soil		Batch: 9010723		
% Solids	95.0	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC10-12 (A9A0293-21)				Matrix: Soil		Batch: 9010723		
% Solids	92.2	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC10-15 (A9A0293-22)				Matrix: Soil		Batch: 9010723		
% Solids	79.7	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC11-06 (A9A0293-23)				Matrix: Soil		Batch: 9010723		
% Solids	96.5	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC11-11 (A9A0293-24)				Matrix: Soil		Batch: 9010723		
% Solids	90.5	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC11-15 (A9A0293-25)				Matrix: Soil		Batch: 9010723		

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC11-15 (A9A0293-25)				Matrix: Soil		Batch: 9010723		
% Solids	92.3	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC12-08 (A9A0293-26)				Matrix: Soil		Batch: 9010723		
% Solids	92.4	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC12-12 (A9A0293-27)				Matrix: Soil		Batch: 9010723		
% Solids	88.3	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
HC12-15 (A9A0293-28)				Matrix: Soil		Batch: 9010723		
% Solids	92.0	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
BH-1R-32 (A9A0293-29)				Matrix: Soil		Batch: 9010723		
% Solids	88.3	---	1.00	% by Weight	1	01/16/19	EPA 8000C	
BH-R-37 (A9A0293-30)				Matrix: Soil		Batch: 9010723		
% Solids	82.8	---	1.00	% by Weight	1	01/16/19	EPA 8000C	

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.



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010728 - EPA 3546 (Fuels)						Soil						
Blank (9010728-BLK1)		Prepared: 01/15/19 10:08 Analyzed: 01/16/19 02:00										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 97 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (9010728-BS1)						Prepared: 01/15/19 10:08 Analyzed: 01/16/19 02:20						
NWTPH-Dx												
Diesel	114	---	25.0	mg/kg wet	1	125	---	91	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Batch 9010741 - EPA 3546 (Fuels)						Soil						
Blank (9010741-BLK1)		Prepared: 01/15/19 13:31 Analyzed: 01/15/19 21:54										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (9010741-BS1)						Prepared: 01/15/19 13:31 Analyzed: 01/15/19 22:17						
NWTPH-Dx												
Diesel	126	---	20.0	mg/kg wet	1	125	---	101	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 99 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Duplicate (9010741-DUP1)		Prepared: 01/15/19 13:31 Analyzed: 01/15/19 23:02										
QC Source Sample: HC06-15 (A9A0293-12)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 82 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010786 - EPA 3546 (Fuels)						Soil						
Blank (9010786-BLK1)		Prepared: 01/16/19 13:01 Analyzed: 01/16/19 21:52										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 100% Limits: 50-150% Dilution: 1x</i>										
LCS (9010786-BS1)		Prepared: 01/16/19 13:01 Analyzed: 01/16/19 22:12										
NWTPH-Dx												
Diesel	128	---	25.0	mg/kg wet	1	125	---	103	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 104% Limits: 50-150% Dilution: 1x</i>										
Duplicate (9010786-DUP1)		Prepared: 01/16/19 13:01 Analyzed: 01/16/19 22:54										
QC Source Sample: HC08-04 (A9A0293-16)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 95% Limits: 50-150% Dilution: 1x</i>										



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010832 - EPA 3546 (Fuels)						Soil						
Blank (9010832-BLK1)		Prepared: 01/17/19 13:09 Analyzed: 01/18/19 04:47										
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Mineral Oil	ND	---	33.3	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 98 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (9010832-BS1)		Prepared: 01/17/19 13:09 Analyzed: 01/18/19 05:08										
NWTPH-Dx												
Diesel	111	---	25.0	mg/kg wet	1	125	---	89	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Duplicate (9010832-DUP1)		Prepared: 01/17/19 13:09 Analyzed: 01/18/19 05:51										
QC Source Sample: HC07-03 (A9A0293-13)												
NWTPH-Dx												
Diesel	1910	---	25.0	mg/kg dry	1	---	1780	---	---	8	30%	
Oil	ND	---	50.0	mg/kg dry	1	---	ND	---	---	---	30%	
Mineral Oil	ND	---	40.3	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 101 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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.



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010726 - EPA 5035A						Soil						
Blank (9010726-BLK1)		Prepared: 01/15/19 09:00 Analyzed: 01/15/19 11:18										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>89 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (9010726-BS2)		Prepared: 01/15/19 09:00 Analyzed: 01/15/19 10:51										
NWTPH-Gx (MS)												
Gasoline Range Organics	23.4	---	5.00	mg/kg wet	50	25.0	---	94	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>91 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (9010726-DUP1)		Prepared: 01/08/19 09:20 Analyzed: 01/15/19 12:11										
QC Source Sample: HC03-07 (A9A0293-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.10	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>90 %</i>		<i>50-150 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010753 - EPA 5035A						Soil						
Blank (9010753-BLK1)		Prepared: 01/15/19 17:30 Analyzed: 01/15/19 19:00										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>89 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (9010753-BS2)						Prepared: 01/15/19 17:30 Analyzed: 01/15/19 18:33						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	22.8	---	5.00	mg/kg wet	50	25.0	---	91	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>89 %</i>		<i>50-150 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010754 - EPA 5035A						Soil						
Blank (9010754-BLK1)		Prepared: 01/15/19 17:40 Analyzed: 01/15/19 19:01										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 95 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			86 %	50-150 %		"						
LCS (9010754-BS2)		Prepared: 01/15/19 17:40 Analyzed: 01/15/19 18:34										
NWTPH-Gx (MS)												
Gasoline Range Organics	22.6	---	5.00	mg/kg wet	50	25.0	---	91	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 98 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			88 %	50-150 %		"						
Duplicate (9010754-DUP1)		Prepared: 01/08/19 12:20 Analyzed: 01/15/19 20:49										
QC Source Sample: HC06-12 (A9A0293-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	1660	---	21.7	mg/kg dry	200	---	1900	---	---	14	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 121 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			141 %	50-150 %		"						
Duplicate (9010754-DUP2)		Prepared: 01/09/19 10:55 Analyzed: 01/16/19 02:11										
QC Source Sample: HC10-15 (A9A0293-22)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	7.41	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 97 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			91 %	50-150 %		"						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010765 - EPA 5035A						Soil						
Blank (9010765-BLK1)		Prepared: 01/16/19 08:55 Analyzed: 01/16/19 11:40										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>92 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (9010765-BS2)						Prepared: 01/16/19 08:55 Analyzed: 01/16/19 10:19						
NWTPH-Gx (MS)												
Gasoline Range Organics	23.6	---	5.00	mg/kg wet	50	25.0	---	94	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>93 %</i>		<i>50-150 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010767 - EPA 5035A						Soil						
Blank (9010767-BLK1)		Prepared: 01/16/19 09:00 Analyzed: 01/16/19 11:22										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>86 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (9010767-BS3)						Prepared: 01/16/19 09:00 Analyzed: 01/16/19 10:55						
NWTPH-Gx (MS)												
Gasoline Range Organics	22.1	---	5.00	mg/kg wet	50	25.0	---	88	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>88 %</i>		<i>50-150 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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 9010726 - EPA 5035A												
Soil												
Blank (9010726-BLK1) Prepared: 01/15/19 09:00 Analyzed: 01/15/19 11:18												
<u>5035A/8260C</u>												
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	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 97 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 100 % 80-120 % "</i>												
LCS (9010726-BS1) Prepared: 01/15/19 09:00 Analyzed: 01/15/19 10:24												
<u>5035A/8260C</u>												
Benzene	0.964	---	0.0100	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Toluene	0.931	---	0.0500	mg/kg wet	50	1.00	---	93	80-120%	---	---	
Ethylbenzene	1.00	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Xylenes, total	3.11	---	0.0750	mg/kg wet	50	3.00	---	104	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 99 % 80-120 % "</i>												
Duplicate (9010726-DUP1) Prepared: 01/08/19 09:20 Analyzed: 01/15/19 12:11												
<u>QC Source Sample: HC03-07 (A9A0293-01)</u>												
<u>5035A/8260C</u>												
Benzene	ND	---	0.0102	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0510	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0255	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.0765	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 98 % 80-120 % "</i>												
Matrix Spike (9010726-MS1) Prepared: 01/08/19 12:15 Analyzed: 01/15/19 17:08												
<u>QC Source Sample: HC06-09 (A9A0293-10)</u>												
<u>5035A/8260C</u>												

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010726 - EPA 5035A						Soil						
Matrix Spike (9010726-MS1)		Prepared: 01/08/19 12:15 Analyzed: 01/15/19 17:08										
QC Source Sample: HC06-09 (A9A0293-10)												
Benzene	0.997	---	0.00987	mg/kg dry	50	0.987	ND	101	77-121%	---	---	
Toluene	0.921	---	0.0494	mg/kg dry	50	0.987	ND	93	77-121%	---	---	
Ethylbenzene	1.01	---	0.0247	mg/kg dry	50	0.987	ND	103	76-122%	---	---	
Xylenes, total	3.23	---	0.0740	mg/kg dry	50	2.96	0.0503	107	78-124%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						

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.



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010753 - EPA 5035A						Soil						
Blank (9010753-BLK1)		Prepared: 01/15/19 17:30 Analyzed: 01/15/19 19:00										
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	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (9010753-BS1)						Prepared: 01/15/19 17:30 Analyzed: 01/15/19 18:06						
5035A/8260C												
Benzene	0.942	---	0.0100	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Toluene	0.935	---	0.0500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Ethylbenzene	0.962	---	0.0250	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Xylenes, total	2.87	---	0.0750	mg/kg wet	50	3.00	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010754 - EPA 5035A												
Soil												
Blank (9010754-BLK1)												
Prepared: 01/15/19 17:40 Analyzed: 01/15/19 19:01												
<u>5035A/8260C</u>												
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	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 93 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 99 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 102 % 80-120 % "</i>												

LCS (9010754-BS1)												
Prepared: 01/15/19 17:40 Analyzed: 01/15/19 18:07												
<u>5035A/8260C</u>												
Benzene	0.906	---	0.0100	mg/kg wet	50	1.00	---	91	80-120%	---	---	
Toluene	0.916	---	0.0500	mg/kg wet	50	1.00	---	92	80-120%	---	---	
Ethylbenzene	0.988	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Xylenes, total	3.13	---	0.0750	mg/kg wet	50	3.00	---	104	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 93 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 102 % 80-120 % "</i>												

Duplicate (9010754-DUP1)												
Prepared: 01/08/19 12:20 Analyzed: 01/15/19 20:49												
<u>QC Source Sample: HC06-12 (A9A0293-11)</u>												
<u>5035A/8260C</u>												
Benzene	ND	---	0.0434	mg/kg dry	200	---	ND	---	---	---	30%	
Toluene	ND	---	0.217	mg/kg dry	200	---	ND	---	---	---	30%	
Ethylbenzene	0.877	---	0.109	mg/kg dry	200	---	0.968	---	---	10	30%	
Xylenes, total	48.3	---	0.326	mg/kg dry	200	---	53.6	---	---	10	30%	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 96 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 98 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 103 % 80-120 % "</i>												

Duplicate (9010754-DUP2)											
Prepared: 01/09/19 10:55 Analyzed: 01/16/19 02:11											
<u>QC Source Sample: HC10-15 (A9A0293-22)</u>											
<u>5035A/8260C</u>											

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010754 - EPA 5035A						Soil						
Duplicate (9010754-DUP2)		Prepared: 01/09/19 10:55 Analyzed: 01/16/19 02:11										
QC Source Sample: HC10-15 (A9A0293-22)												
Benzene	ND	---	0.0148	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0741	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0370	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.111	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (9010754-MS1)						Prepared: 01/10/19 13:15 Analyzed: 01/16/19 05:47						T-02
QC Source Sample: BH-R-37 (A9A0293-30)												
5035A/8260C												
Benzene	0.932	---	0.0101	mg/kg dry	50	1.01	ND	92	77-121%	---	---	
Toluene	0.898	---	0.0507	mg/kg dry	50	1.01	ND	89	77-121%	---	---	
Ethylbenzene	0.979	---	0.0253	mg/kg dry	50	1.01	ND	97	76-122%	---	---	
Xylenes, total	3.15	---	0.0760	mg/kg dry	50	3.04	ND	104	78-124%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010767 - EPA 5035A						Soil						
Blank (9010767-BLK1)		Prepared: 01/16/19 09:00 Analyzed: 01/16/19 11:22										
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	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (9010767-BS2)		Prepared: 01/16/19 09:00 Analyzed: 01/16/19 10:28										
5035A/8260C												
Benzene	0.945	---	0.0100	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Toluene	0.962	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Ethylbenzene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Xylenes, total	3.26	---	0.0750	mg/kg wet	50	3.00	---	108	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						



Apex Laboratories, LLC

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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 9010723 - Total Solids (Dry Weight)							Soil					
Duplicate (9010723-DUP1)		Prepared: 01/15/19 08:52 Analyzed: 01/16/19 08:37										
QC Source Sample: HC03-07 (A9A0293-01)												
EPA 8000C												
% Solids	91.8	---	1.00	% by Weight	1	---	91.8	---	---	0.03	10%	
Duplicate (9010723-DUP2)		Prepared: 01/15/19 08:52 Analyzed: 01/16/19 08:37										
QC Source Sample: HC06-12 (A9A0293-11)												
EPA 8000C												
% Solids	89.1	---	1.00	% by Weight	1	---	89.4	---	---	0.3	10%	
Duplicate (9010723-DUP3)		Prepared: 01/15/19 08:52 Analyzed: 01/16/19 08:37										
QC Source Sample: HC10-12 (A9A0293-21)												
EPA 8000C												
% Solids	92.3	---	1.00	% by Weight	1	---	92.2	---	---	0.1	10%	

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

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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: 9010728							
A9A0293-01	Soil	NWTPH-Dx	01/08/19 09:20	01/15/19 10:08	11.12g/5mL	10g/5mL	0.90
A9A0293-02RE1	Soil	NWTPH-Dx	01/08/19 09:30	01/15/19 10:08	10.54g/5mL	10g/5mL	0.95
A9A0293-03	Soil	NWTPH-Dx	01/08/19 09:40	01/15/19 10:08	10.68g/5mL	10g/5mL	0.94
A9A0293-04RE1	Soil	NWTPH-Dx	01/08/19 10:50	01/15/19 10:08	11.44g/5mL	10g/5mL	0.87
A9A0293-05	Soil	NWTPH-Dx	01/08/19 10:55	01/15/19 10:08	10.79g/5mL	10g/5mL	0.93
A9A0293-06	Soil	NWTPH-Dx	01/08/19 11:00	01/15/19 10:08	11.07g/5mL	10g/5mL	0.90
A9A0293-07	Soil	NWTPH-Dx	01/08/19 11:30	01/15/19 10:08	10.28g/5mL	10g/5mL	0.97
A9A0293-08	Soil	NWTPH-Dx	01/08/19 11:40	01/15/19 10:08	10.63g/5mL	10g/5mL	0.94
A9A0293-09	Soil	NWTPH-Dx	01/08/19 11:45	01/15/19 10:08	10.23g/5mL	10g/5mL	0.98
A9A0293-10	Soil	NWTPH-Dx	01/08/19 12:15	01/15/19 10:08	10.69g/5mL	10g/5mL	0.94
A9A0293-11	Soil	NWTPH-Dx	01/08/19 12:20	01/15/19 10:08	10.76g/5mL	10g/5mL	0.93
Batch: 9010741							
A9A0293-12	Soil	NWTPH-Dx	01/08/19 12:25	01/15/19 13:31	10.71g/5mL	10g/5mL	0.93
Batch: 9010786							
A9A0293-16	Soil	NWTPH-Dx	01/09/19 09:35	01/16/19 13:01	10.79g/5mL	10g/5mL	0.93
A9A0293-17	Soil	NWTPH-Dx	01/09/19 09:40	01/16/19 13:01	10.58g/5mL	10g/5mL	0.95
A9A0293-18	Soil	NWTPH-Dx	01/09/19 09:45	01/16/19 13:01	11.42g/5mL	10g/5mL	0.88
A9A0293-19RE2	Soil	NWTPH-Dx	01/09/19 10:15	01/16/19 13:01	10.93g/5mL	10g/5mL	0.92
A9A0293-20	Soil	NWTPH-Dx	01/09/19 10:40	01/16/19 13:01	11.04g/5mL	10g/5mL	0.91
A9A0293-21	Soil	NWTPH-Dx	01/09/19 10:50	01/16/19 13:01	10.81g/5mL	10g/5mL	0.93
A9A0293-22	Soil	NWTPH-Dx	01/09/19 10:55	01/16/19 13:01	11.5g/5mL	10g/5mL	0.87
A9A0293-23	Soil	NWTPH-Dx	01/09/19 11:20	01/16/19 13:01	11.75g/5mL	10g/5mL	0.85
A9A0293-24RE1	Soil	NWTPH-Dx	01/09/19 11:25	01/16/19 13:01	11.13g/5mL	10g/5mL	0.90
A9A0293-25	Soil	NWTPH-Dx	01/09/19 11:30	01/16/19 13:01	10.49g/5mL	10g/5mL	0.95
A9A0293-26	Soil	NWTPH-Dx	01/09/19 13:10	01/16/19 13:01	10.44g/5mL	10g/5mL	0.96
A9A0293-27RE1	Soil	NWTPH-Dx	01/09/19 13:15	01/16/19 13:01	10.33g/5mL	10g/5mL	0.97
A9A0293-28	Soil	NWTPH-Dx	01/09/19 13:20	01/16/19 13:01	10.39g/5mL	10g/5mL	0.96
Batch: 9010832							
A9A0293-13	Soil	NWTPH-Dx	01/09/19 08:40	01/17/19 13:09	11.3g/5mL	10g/5mL	0.89
A9A0293-14RE1	Soil	NWTPH-Dx	01/09/19 08:45	01/17/19 13:09	11.16g/5mL	10g/5mL	0.90
A9A0293-15	Soil	NWTPH-Dx	01/09/19 08:55	01/17/19 13:09	11.5g/5mL	10g/5mL	0.87
A9A0293-29	Soil	NWTPH-Dx	01/10/19 13:10	01/17/19 13:09	10.03g/5mL	10g/5mL	1.00
A9A0293-30	Soil	NWTPH-Dx	01/10/19 13:15	01/17/19 13:09	10.52g/5mL	10g/5mL	0.95

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



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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
<u>Batch: 9010726</u>							
A9A0293-01	Soil	NWTPH-Gx (MS)	01/08/19 09:20	01/08/19 09:20	5.95g/5mL	5g/5mL	0.84
A9A0293-04	Soil	NWTPH-Gx (MS)	01/08/19 10:50	01/08/19 10:50	6.82g/5mL	5g/5mL	0.73
A9A0293-05	Soil	NWTPH-Gx (MS)	01/08/19 10:55	01/08/19 10:55	6.97g/5mL	5g/5mL	0.72
A9A0293-06	Soil	NWTPH-Gx (MS)	01/08/19 11:00	01/08/19 11:00	5.55g/5mL	5g/5mL	0.90
A9A0293-07	Soil	NWTPH-Gx (MS)	01/08/19 11:30	01/08/19 11:30	5.74g/5mL	5g/5mL	0.87
A9A0293-08	Soil	NWTPH-Gx (MS)	01/08/19 11:40	01/08/19 11:40	5.91g/5mL	5g/5mL	0.85
A9A0293-09	Soil	NWTPH-Gx (MS)	01/08/19 11:45	01/08/19 11:45	5.82g/5mL	5g/5mL	0.86
A9A0293-10	Soil	NWTPH-Gx (MS)	01/08/19 12:15	01/08/19 12:15	5.47g/5mL	5g/5mL	0.91
<u>Batch: 9010753</u>							
A9A0293-21	Soil	NWTPH-Gx (MS)	01/09/19 10:50	01/11/19 13:07	5g/5mL	5g/5mL	1.00
<u>Batch: 9010754</u>							
A9A0293-02RE1	Soil	NWTPH-Gx (MS)	01/08/19 09:30	01/08/19 09:30	7.51g/5mL	5g/5mL	0.67
A9A0293-03RE1	Soil	NWTPH-Gx (MS)	01/08/19 09:40	01/08/19 09:40	5.59g/5mL	5g/5mL	0.89
A9A0293-11	Soil	NWTPH-Gx (MS)	01/08/19 12:20	01/08/19 12:20	6.1g/5mL	5g/5mL	0.82
A9A0293-13	Soil	NWTPH-Gx (MS)	01/09/19 08:40	01/09/19 08:40	6.23g/5mL	5g/5mL	0.80
A9A0293-14	Soil	NWTPH-Gx (MS)	01/09/19 08:45	01/09/19 08:45	6.33g/5mL	5g/5mL	0.79
A9A0293-15	Soil	NWTPH-Gx (MS)	01/09/19 08:55	01/09/19 08:55	5.98g/5mL	5g/5mL	0.84
A9A0293-16	Soil	NWTPH-Gx (MS)	01/09/19 09:35	01/09/19 09:35	6.2g/5mL	5g/5mL	0.81
A9A0293-18	Soil	NWTPH-Gx (MS)	01/09/19 09:45	01/09/19 09:45	5.73g/5mL	5g/5mL	0.87
A9A0293-19	Soil	NWTPH-Gx (MS)	01/09/19 10:15	01/09/19 10:15	6.14g/5mL	5g/5mL	0.81
A9A0293-20	Soil	NWTPH-Gx (MS)	01/09/19 10:40	01/09/19 10:40	5.65g/5mL	5g/5mL	0.89
A9A0293-22	Soil	NWTPH-Gx (MS)	01/09/19 10:55	01/09/19 10:55	5.59g/5mL	5g/5mL	0.89
A9A0293-23	Soil	NWTPH-Gx (MS)	01/09/19 11:20	01/09/19 11:20	5.45g/5mL	5g/5mL	0.92
A9A0293-24	Soil	NWTPH-Gx (MS)	01/09/19 11:25	01/09/19 11:25	5.73g/5mL	5g/5mL	0.87
A9A0293-26	Soil	NWTPH-Gx (MS)	01/09/19 13:10	01/09/19 13:10	10.93g/5mL	5g/5mL	0.46
A9A0293-28	Soil	NWTPH-Gx (MS)	01/09/19 13:20	01/09/19 13:20	5.75g/5mL	5g/5mL	0.87
A9A0293-29	Soil	NWTPH-Gx (MS)	01/10/19 13:10	01/10/19 13:10	5.54g/5mL	5g/5mL	0.90
A9A0293-30	Soil	NWTPH-Gx (MS)	01/10/19 13:15	01/10/19 13:15	7.49g/5mL	5g/5mL	0.67
<u>Batch: 9010765</u>							
A9A0293-27RE1	Soil	NWTPH-Gx (MS)	01/09/19 13:15	01/11/19 13:07	5.66g/5mL	5g/5mL	0.88
<u>Batch: 9010767</u>							
A9A0293-12RE1	Soil	NWTPH-Gx (MS)	01/08/19 12:25	01/08/19 12:25	5.82g/5mL	5g/5mL	0.86
A9A0293-17RE1	Soil	NWTPH-Gx (MS)	01/09/19 09:40	01/09/19 09:40	6.72g/5mL	5g/5mL	0.74
A9A0293-25RE1	Soil	NWTPH-Gx (MS)	01/09/19 11:30	01/09/19 11:30	5.97g/5mL	5g/5mL	0.84

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



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

Project: **Coleman Wenatchee**
Project Number: **2017-074**
Project Manager: **Craig Hultgren**

Report ID:
A9A0293 - 01 21 19 0939

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C

Prep: **EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9010726</u>							
A9A0293-01	Soil	5035A/8260C	01/08/19 09:20	01/08/19 09:20	5.95g/5mL	5g/5mL	0.84
A9A0293-03	Soil	5035A/8260C	01/08/19 09:40	01/08/19 09:40	5.59g/5mL	5g/5mL	0.89
A9A0293-04	Soil	5035A/8260C	01/08/19 10:50	01/08/19 10:50	6.82g/5mL	5g/5mL	0.73
A9A0293-05	Soil	5035A/8260C	01/08/19 10:55	01/08/19 10:55	6.97g/5mL	5g/5mL	0.72
A9A0293-06	Soil	5035A/8260C	01/08/19 11:00	01/08/19 11:00	5.55g/5mL	5g/5mL	0.90
A9A0293-07	Soil	5035A/8260C	01/08/19 11:30	01/08/19 11:30	5.74g/5mL	5g/5mL	0.87
A9A0293-08	Soil	5035A/8260C	01/08/19 11:40	01/08/19 11:40	5.91g/5mL	5g/5mL	0.85
A9A0293-09	Soil	5035A/8260C	01/08/19 11:45	01/08/19 11:45	5.82g/5mL	5g/5mL	0.86
A9A0293-10	Soil	5035A/8260C	01/08/19 12:15	01/08/19 12:15	5.47g/5mL	5g/5mL	0.91
<u>Batch: 9010753</u>							
A9A0293-21	Soil	5035A/8260C	01/09/19 10:50	01/11/19 13:07	5g/5mL	5g/5mL	1.00
A9A0293-27	Soil	5035A/8260C	01/09/19 13:15	01/11/19 13:07	5.66g/5mL	5g/5mL	0.88
<u>Batch: 9010754</u>							
A9A0293-02RE1	Soil	5035A/8260C	01/08/19 09:30	01/08/19 09:30	7.51g/5mL	5g/5mL	0.67
A9A0293-11	Soil	5035A/8260C	01/08/19 12:20	01/08/19 12:20	6.1g/5mL	5g/5mL	0.82
A9A0293-13	Soil	5035A/8260C	01/09/19 08:40	01/09/19 08:40	6.23g/5mL	5g/5mL	0.80
A9A0293-14	Soil	5035A/8260C	01/09/19 08:45	01/09/19 08:45	6.33g/5mL	5g/5mL	0.79
A9A0293-15	Soil	5035A/8260C	01/09/19 08:55	01/09/19 08:55	5.98g/5mL	5g/5mL	0.84
A9A0293-16	Soil	5035A/8260C	01/09/19 09:35	01/09/19 09:35	6.2g/5mL	5g/5mL	0.81
A9A0293-18	Soil	5035A/8260C	01/09/19 09:45	01/09/19 09:45	5.73g/5mL	5g/5mL	0.87
A9A0293-19	Soil	5035A/8260C	01/09/19 10:15	01/09/19 10:15	6.14g/5mL	5g/5mL	0.81
A9A0293-20	Soil	5035A/8260C	01/09/19 10:40	01/09/19 10:40	5.65g/5mL	5g/5mL	0.89
A9A0293-22	Soil	5035A/8260C	01/09/19 10:55	01/09/19 10:55	5.59g/5mL	5g/5mL	0.89
A9A0293-23	Soil	5035A/8260C	01/09/19 11:20	01/09/19 11:20	5.45g/5mL	5g/5mL	0.92
A9A0293-24	Soil	5035A/8260C	01/09/19 11:25	01/09/19 11:25	5.73g/5mL	5g/5mL	0.87
A9A0293-26	Soil	5035A/8260C	01/09/19 13:10	01/09/19 13:10	10.93g/5mL	5g/5mL	0.46
A9A0293-28	Soil	5035A/8260C	01/09/19 13:20	01/09/19 13:20	5.75g/5mL	5g/5mL	0.87
A9A0293-29	Soil	5035A/8260C	01/10/19 13:10	01/10/19 13:10	5.54g/5mL	5g/5mL	0.90
A9A0293-30	Soil	5035A/8260C	01/10/19 13:15	01/10/19 13:15	7.49g/5mL	5g/5mL	0.67
<u>Batch: 9010767</u>							
A9A0293-12RE1	Soil	5035A/8260C	01/08/19 12:25	01/08/19 12:25	5.82g/5mL	5g/5mL	0.86
A9A0293-17RE1	Soil	5035A/8260C	01/09/19 09:40	01/09/19 09:40	6.72g/5mL	5g/5mL	0.74
A9A0293-25RE1	Soil	5035A/8260C	01/09/19 11:30	01/09/19 11:30	5.97g/5mL	5g/5mL	0.84

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

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	---	--

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
<u>Batch: 9010723</u>							
A9A0293-01	Soil	EPA 8000C	01/08/19 09:20	01/15/19 08:52			NA
A9A0293-02	Soil	EPA 8000C	01/08/19 09:30	01/15/19 08:52			NA
A9A0293-03	Soil	EPA 8000C	01/08/19 09:40	01/15/19 08:52			NA
A9A0293-04	Soil	EPA 8000C	01/08/19 10:50	01/15/19 08:52			NA
A9A0293-05	Soil	EPA 8000C	01/08/19 10:55	01/15/19 08:52			NA
A9A0293-06	Soil	EPA 8000C	01/08/19 11:00	01/15/19 08:52			NA
A9A0293-07	Soil	EPA 8000C	01/08/19 11:30	01/15/19 08:52			NA
A9A0293-08	Soil	EPA 8000C	01/08/19 11:40	01/15/19 08:52			NA
A9A0293-09	Soil	EPA 8000C	01/08/19 11:45	01/15/19 08:52			NA
A9A0293-10	Soil	EPA 8000C	01/08/19 12:15	01/15/19 08:52			NA
A9A0293-11	Soil	EPA 8000C	01/08/19 12:20	01/15/19 08:52			NA
A9A0293-12	Soil	EPA 8000C	01/08/19 12:25	01/15/19 08:52			NA
A9A0293-13	Soil	EPA 8000C	01/09/19 08:40	01/15/19 08:52			NA
A9A0293-14	Soil	EPA 8000C	01/09/19 08:45	01/15/19 08:52			NA
A9A0293-15	Soil	EPA 8000C	01/09/19 08:55	01/15/19 08:52			NA
A9A0293-16	Soil	EPA 8000C	01/09/19 09:35	01/15/19 08:52			NA
A9A0293-17	Soil	EPA 8000C	01/09/19 09:40	01/15/19 08:52			NA
A9A0293-18	Soil	EPA 8000C	01/09/19 09:45	01/15/19 08:52			NA
A9A0293-19	Soil	EPA 8000C	01/09/19 10:15	01/15/19 08:52			NA
A9A0293-20	Soil	EPA 8000C	01/09/19 10:40	01/15/19 08:52			NA
A9A0293-21	Soil	EPA 8000C	01/09/19 10:50	01/15/19 08:52			NA
A9A0293-22	Soil	EPA 8000C	01/09/19 10:55	01/15/19 08:52			NA
A9A0293-23	Soil	EPA 8000C	01/09/19 11:20	01/15/19 08:52			NA
A9A0293-24	Soil	EPA 8000C	01/09/19 11:25	01/15/19 08:52			NA
A9A0293-25	Soil	EPA 8000C	01/09/19 11:30	01/15/19 08:52			NA
A9A0293-26	Soil	EPA 8000C	01/09/19 13:10	01/15/19 08:52			NA
A9A0293-27	Soil	EPA 8000C	01/09/19 13:15	01/15/19 08:52			NA
A9A0293-28	Soil	EPA 8000C	01/09/19 13:20	01/15/19 08:52			NA
A9A0293-29	Soil	EPA 8000C	01/10/19 13:10	01/15/19 08:52			NA
A9A0293-30	Soil	EPA 8000C	01/10/19 13:15	01/15/19 08:52			NA

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

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

QUALIFIER DEFINITIONS

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

Apex Laboratories

- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-11** The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- 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.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-08** TPH-Gx Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. See 8260B results for accurate Surrogate recovery.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour tune window. Results are estimated.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- V-16** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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.



HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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

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, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	---

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.

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

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Coleman Wenatchee Project Number: 2017-074 Project Manager: Craig Hultgren	Report ID: A9A0293 - 01 21 19 0939
---	--	--

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
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

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 provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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.



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

Project: **Coleman Wenatchee**
Project Number: **2017-074**
Project Manager: **Craig Hultgren**

Report ID:
A9A0293 - 01 21 19 0939

COC 1 of 3

Lab # **A9A0293** PO#

CHAIN OF CUSTODY

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

Company: **Hydrocon** Project Mgr: **Craig Hultgren** Project Name: **Chelan w/1** Email: **2017-074**

Address: **314 W 15th Street Suite 300 Vancouver WA 98660** Phone: _____

Sampled by: **BAH**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 BVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Cr, Cu, Ni, Pb, Se, Ag, Na, TL, V, Zn	TOTAL DISS. TCLP	1200-COLS	1200-Z
H403-07	1-8-14	0720	Soil	3																	
H403-10	11	0730		11																	
H403-15	11	0740		11																	
H404-07	11	1050		11																	
H404-09	11	1055		11																	
H404-12	11	1100		11																	
H405-10	11	1130		11																	
H405-12	11	1140		11																	
H405-15	11	1145		11																	
H406-09	11	1215		11																	

Site Location: OR WA

Other: _____

Normal Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS: **Hold all samples.**

RECEIVED BY: _____ Date: _____

RELINQUISHED BY: **[Signature]** Date: **1-10-14** Signature: **[Signature]** Date: **1-10-14**

Printed Name: **Robert A. Hudson** Time: **1:15** Printed Name: **[Signature]** Time: **10:00**

Company: **Hydrocon** Company: **Apex**

Lisa Domenighini



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

Project: **Coleman Wenatchee**
Project Number: **2017-074**
Project Manager: **Craig Hultgren**

Report ID:
A9A0293 - 01 21 19 0939

COC 3 of 3

CHAIN OF CUSTODY

Lab # **A9A0293** PO#

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

Company: **HydroCon** Project Mgr: **Craig Hultgren** Project Name: **Wenatchee Clean up 1** Project # **2017-074**

Address: **Sefer 1** Phone: _____ Fax: _____ Email: _____

Sampled by: _____

Site Location: OR **(WA)**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDN 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, Cr, Cu, Co, Ni, Pb, Hg, Mn, Mo, Se, Zn, Sr, Ag, Na, TL, V, Zn	1200-COLS	1200-Z
HC10-12	1-11-17	10:10	Soil	3																
HC10-15	11	10:55	11	11																
HC11-06	11	11:00	11	11																
HC11-11	11	11:25	11	11																
HC11-15	11	14:30	11	11																
HC12-08	11	15:10	11	11																
HC12-12	11	15:15	11	11																
HC12-15	11	13:20	11	11																
BH-1R-52	1-10-17	13:10	11	11																
BH-1R-37	1-10-17	13:15	11	11																

Normal Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS: **Hold all samples -**

RECEIVED BY: _____ RECEIVED BY: _____

Signature: **[Signature]** Signature: **[Signature]**

Date: **1-11-17** Date: _____

Printed Name: **Robert A. Hultgren** Printed Name: _____

Time: **10:20** Time: _____

Company: **HydroCon** Company: _____

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

Lisa Domenighini, Client Services Manager



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

Project: Coleman Wenatchee
Project Number: 2017-074
Project Manager: Craig Hultgren

Report ID:
A9A0293 - 01 21 19 0939

APEX LABS COOLER RECEIPT FORM

Client: HydroCon Element WO#: A9 A-0293

Project/Project #: Coleman Oil

Delivery Info:

Date/time received: 1/11/19 @ 10:20 By: MS

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

Cooler Inspection Date/time inspected: 1/11/19 @ 10:20 By: MS

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.4</u>	<u>1.1</u>	<u>2.1</u>				
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>				
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>				
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>				
Condition:	<u>Good</u>	<u>Good</u>	<u>Good</u>				

Cooler out of temp? (Y/N) Possible reason why: NA
If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA NA

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

Samples Inspection: Date/time inspected: 1/11/19 @ 12:35 By: MS

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: 1/2 MeOH vials T reads 10:25 on HC11-11, 1st T reads 11:25.

COC/container discrepancies form initiated? Yes No NA

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

Do VOA vials have visible headspace? Yes No NA

Comments: _____

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

Comments: _____

Additional information: UPS # 1Z EDD 708 01 4663 1218 @ 1/11/19
2/2 MeOH vials, never filled. on HC12-12, in house extraction
2/2 MeOH vials HC10-12 received w/ no MeOH in vials

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: KRS See Project Contact Form: Y

Lisa Domenighini



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Monday, January 21, 092V
Loring Cr IlgoAu
CydæLeu 33L
425 8 2t fSi hAAhi r rthA 499
cauver WAo 8 6 V1H9

(E: 6V690Vt 7 LeIAmau 8 AuahvSAA 7 092P79P5

TSauk yer feor snug 6pAx 3abecæteoAs. 8 AgoAahy appoAvratA yer obr snuAss aud stovA he pæVtdA fSA SngSAshqr alrthy sAdWAs he fSA AuVteumAural nudr shoy.

EuvlesAd ocA fSA oAsr lrs ef aualysAs feoweck eedAo6 V690Vt , wSrvS was oAvArWAd by fSA labecætey eu 2/22/092V ah29:09:996I .

@yer SaVA auy qr Ashreus veuvAunug fSrs oApedcheofSA sAdWAs wA effAo, plAasA fAAI foAA he veuhavhmA by Amanh ah IdemAungSruun apAx7abs.vem, eoby pSeuA aht 947P2170404.

_lAasA uehA: 6ll samplAs wrth bA drspesAd ef wrthSu 49 days ef frual oApednug, r ulAss pæoæccaugAmAuhS SaVA bAAu madA.

~~~~~

L eelAo( AvAph@feomahreu

F AA L eelAo( AvAphMeom feodArnts)

|           |          |           |          |
|-----------|----------|-----------|----------|
| L eelAo#2 | 0.5 dAgL | L eelAo#0 | 2.2 dAgL |
| L eelAo#4 | 0.2 dAgL |           |          |

~~~~~

TSrs Mual (Apechrs fSA effrvral VAcSreu ef fSA data oAsr lrs feofSrs samplA sr bmsrsreu , r ulAss sr pAcAdAd by a sr bsAqr Auh labAIAd amAudAd oApedh

6 ll efSAodAlrVAcabIAs dAcVAd fæm fSrs data, nuvlr drug EIAvteuvr Data DAhrVAcabIAs FEDDs), L 3_ 7rkA feoms, vlrAuhocqr AshAd sr mmacy sSAArS, aud all efSAopædr vls ocA veusrdAcAd sAveuday he fSrs oApedh

~~~~~



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

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

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

Project Coleman Wenatchee  
Project Number 2017-074  
Project Manager Craig Hultgren

Report ID:  
A9A0295 - 01 18 19 0925

**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

| Client Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| TP01-02          | A9A0295-01    | Soil   | 01/07/19 10:35 | 01/11/19 10:20 |
| TP02-02          | A9A0295-03    | Soil   | 01/07/19 10:50 | 01/11/19 10:20 |
| TP03-04          | A9A0295-06    | Soil   | 01/07/19 11:25 | 01/11/19 10:20 |
| TP04-02          | A9A0295-07    | Soil   | 01/07/19 11:35 | 01/11/19 10:20 |
| TP05-02          | A9A0295-09    | Soil   | 01/07/19 11:50 | 01/11/19 10:20 |
| TP06-02          | A9A0295-10    | Soil   | 01/07/19 12:00 | 01/11/19 10:20 |

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



|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**ANALYTICAL SAMPLE RESULTS**

**Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

| Anal2te                             | Sample<br>uesNt | Detection<br>Limit    | u eporting<br>Limit | d nits                 | DilNion | Date<br>Anal2. eR           | MethoRu efy  | : otes            |
|-------------------------------------|-----------------|-----------------------|---------------------|------------------------|---------|-----------------------------|--------------|-------------------|
| <b>TPC0-C3 7A (AC3(9-C0RE02)</b>    |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | <b>3510</b>     | ///                   | 5H                  | mg0g Rr2               | 1k      | k16l V6l T                  | : U z P0 /Dx | <b>F-19</b>       |
| <b>Oil</b>                          | <b>1850</b>     | ///                   | O-H                 | mg0g Rr2               | 1k      | k16l V6l T                  | : U z P0 /Dx | <b>F-16</b>       |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 %8 /</i> |                     | <i>0imits1 HPW4P /</i> |         | <i>%P P0000R - DTxL W 5</i> |              | <i>NPH</i>        |
| <b>TPC3-C3 7A (AC3(9-C8RE02)</b>    |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | : D             | ///                   | TTy4                | mg0g Rr2               | 8       | k16l V6l T                  | : U z P0 /Dx |                   |
| <b>Oil</b>                          | <b>1250</b>     | ///                   | 5kk                 | mg0g Rr2               | 8       | k16l V6l T                  | : U z P0 /Dx |                   |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 R3 /</i> |                     | <i>0imits1 HPW4P /</i> |         | <i>H P0000R - DTxL W 5</i>  |              | <i>NPH</i>        |
| <b>TPC8-Ch 7A (AC3(9-C52)</b>       |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | <b>119</b>      | ///                   | 58yk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx | <b>F-11</b>       |
| <b>7 il</b>                         | : D             | ///                   | 8kyk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx |                   |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 22 /</i> |                     | <i>0imits1 HPW4P /</i> |         | <i>% P0000R - DTxL W 5</i>  |              |                   |
| <b>TPCh-C3 7A (AC3(9-CBRE02)</b>    |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | : D             | ///                   | 8Wk                 | mg0g Rr2               | 58      | k16l V6l T                  | : U z P0 /Dx |                   |
| <b>Oil</b>                          | <b>4270</b>     | ///                   | 115k                | mg0g Rr2               | 58      | k16l V6l T                  | : U z P0 /Dx |                   |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 /</i>    |                     | <i>0imits1 HPW4P /</i> |         | <i>3H P0000R - DTxL W 5</i> |              | <i>NPH%</i>       |
| <b>TPC9-C3 7A (AC3(9-C2)</b>        |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | <b>270</b>      | ///                   | 58yk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx | <b>F-11</b>       |
| <b>7 il</b>                         | : D             | ///                   | 8kyk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx |                   |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 23 /</i> |                     | <i>0imits1 HPW4P /</i> |         | <i>% P0000R - DTxL W 5</i>  |              |                   |
| <b>TPC5-C3 7A (AC3(9-0CRE02)</b>    |                 |                       |                     | <b>Matrix) Soil</b>    |         | <b>t a1c: ) ( C0CBh0</b>    |              |                   |
| <b>Diesel</b>                       | <b>580</b>      | ///                   | 58yk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx | <b>F-13, F-15</b> |
| <b>Oil</b>                          | <b>61.1</b>     | ///                   | 8kyk                | mg0g Rr2               | 1       | k16l V6l T                  | : U z P0 /Dx | <b>F-16</b>       |
| <i>Nurrogate1 oWerphenyl (Nurr)</i> |                 | <i>veco7ery1 R9 /</i> |                     | <i>0imits1 HPW4P /</i> |         | <i>% P0000R - DTxL W 5</i>  |              |                   |



|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**ANALYTICAL SAMPLE RESULTS**

**4 Gasoline Range Hydrocarbons by NTPH-4x**

| Anal2te                                     | Sample<br>usesNt | Detection<br>Limit | Reporting<br>Limit | Units               | DilNion        | Date<br>Anal2. eR | MethoRu efy              | Notes                     |
|---------------------------------------------|------------------|--------------------|--------------------|---------------------|----------------|-------------------|--------------------------|---------------------------|
| <b>TPC0-C3 7A (AC3 (9-C0RE02</b>            |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB59</b> | <b>u-05</b>               |
| <b>Gasoline Range Organics</b>              | <b>4970</b>      | <b>///</b>         | <b>-kO</b>         | <b>mg0g Rr2</b>     | <b>8kkk</b>    | <b>k16l W6T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%PG/</i>        | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>%P3 /</i>       |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <b>TPC3-C3 7A (AC3 (9-C8RE02</b>            |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB59</b> | <b>u-05</b>               |
| <b>Gasoline u ange 7 rganics</b>            | <b>: D</b>       | <b>///</b>         | <b>WkW</b>         | <b>mg0g Rr2</b>     | <b>8k</b>      | <b>k16l W6T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%P3 /</i>       | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>R3 /</i>        |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <b>TPC8-Ch 7A (AC3 (9-C52</b>               |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB30</b> | <b>u-05</b>               |
| <b>Gasoline u ange 7 rganics</b>            | <b>: D</b>       | <b>///</b>         | <b>W5H</b>         | <b>mg0g Rr2</b>     | <b>8k</b>      | <b>k16l 86T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%PR /</i>       | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>R2 /</i>        |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <b>TPCh-C3 7A (AC3 (9-CB2</b>               |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB30</b> | <b>u-05</b>               |
| <b>Gasoline Range Organics</b>              | <b>47.6</b>      | <b>///</b>         | <b>Wtk</b>         | <b>mg0g Rr2</b>     | <b>8k</b>      | <b>k16l 86T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%S /</i>        | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>%P /</i>        |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <b>TPC9-C3 7A (AC3 (9-C2</b>                |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB30</b> | <b>u-05</b>               |
| <b>Gasoline u ange 7 rganics</b>            | <b>: D</b>       | <b>///</b>         | <b>8yIH</b>        | <b>mg0g Rr2</b>     | <b>8k</b>      | <b>k16l 86T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%% /</i>        | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>RS /</i>        |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <b>TPC5-C3 7A (AC3 (9-0C2</b>               |                  |                    |                    | <b>Matrix) Soil</b> |                |                   | <b>t a1c: ) ( C0CB30</b> | <b>u-05</b>               |
| <b>Gasoline u ange 7 rganics</b>            | <b>: D</b>       | <b>///</b>         | <b>WCH</b>         | <b>mg0g Rr2</b>     | <b>8k</b>      | <b>k16l 86T</b>   | <b>: U z P0 /Gx (MS)</b> |                           |
| <i>Nurrogate1 GMfomofluorobenzene (Nur)</i> |                  | <i>veco7ery1</i>   | <i>%P /</i>        | <i>0imits1</i>      | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |
| <i>%W ifluorobenzene (Nur)</i>              |                  |                    | <i>R2 /</i>        |                     | <i>HPW4P /</i> | <i>%</i>          | <i>P000R</i>             | <i>- D Tx L W 5 (4 N)</i> |

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



|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**ANALYTICAL SAMPLE RESULTS**

**t TEp VoX z ognds by EPA n85CV**

| Anal2te                                     | Sample<br>uesNt | Detection<br>Limit | u eporting<br>Limit | d nits              | DilNion        | Date<br>Anal2. eR        | MethoRu efy  | : otes             |
|---------------------------------------------|-----------------|--------------------|---------------------|---------------------|----------------|--------------------------|--------------|--------------------|
| <b>TPC0-C3 7A( AC3( 9-C02</b>               |                 |                    |                     | <b>Matrix) Soil</b> |                | <b>t a1c: ) ( C0CB30</b> |              | <b>u-05</b>        |
| <b>UenXene</b>                              | <b>0.328</b>    | ///                | kyk8WH              | mg0g Rr2            | 5kk            | k16l 86l T               | 8kHBA645WC   |                    |
| <b>Toluene</b>                              | <b>0.408</b>    | ///                | ky545               | mg0g Rr2            | 5kk            | k16l 86l T               | 8kHBA645WC   |                    |
| <b>EthylbenXene</b>                         | <b>40.5</b>     | ///                | kylOl               | mg0g Rr2            | 5kk            | k16l 86l T               | 8kHBA645WC   |                    |
| <i>Nurrogate1 %EW ifluorobenzene (Nurr)</i> |                 | <i>veco7eryl</i>   | <i>%P2 /</i>        | <i>0imits1</i>      | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>TolueneW2 (Nurr)</i>                     |                 |                    | <i>%R /</i>         |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>GMfomofluorobenzene (Nurr)</i>           |                 |                    | <i>%PH /</i>        |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <b>TPC0-C3 7A( AC3( 9-C0RE02</b>            |                 |                    |                     | <b>Matrix) Soil</b> |                | <b>t a1c: ) ( C0CB59</b> |              | <b>u-05</b>        |
| <b>z ylenes, total</b>                      | <b>343</b>      | ///                | 1kyW                | mg0g Rr2            | 8kkk           | k16l 86l T               | 8kHBA645WC   |                    |
| <i>Nurrogate1 %EW ifluorobenzene (Nurr)</i> |                 | <i>veco7eryl</i>   | <i>RS /</i>         | <i>0imits1</i>      | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>TolueneW2 (Nurr)</i>                     |                 |                    | <i>R2 /</i>         |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>GMfomofluorobenzene (Nurr)</i>           |                 |                    | <i>%P9 /</i>        |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <b>TPC3-C3 7A( AC3( 9-C8RE02</b>            |                 |                    |                     | <b>Matrix) Soil</b> |                | <b>t a1c: ) ( C0CB59</b> |              | <b>u-05</b>        |
| <b>Ben. ene</b>                             | : D             | ///                | kyk151              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>zolNene</b>                              | : D             | ///                | kykWH               | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>Eth2lben. ene</b>                        | : D             | ///                | kykHkH              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>X2lenes, total</b>                       | : D             | ///                | kykTlk              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <i>Nurrogate1 %EW ifluorobenzene (Nurr)</i> |                 | <i>veco7eryl</i>   | <i>RS /</i>         | <i>0imits1</i>      | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>TolueneW2 (Nurr)</i>                     |                 |                    | <i>RR /</i>         |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>GMfomofluorobenzene (Nurr)</i>           |                 |                    | <i>%PS /</i>        |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <b>TPC8-Ch 7A( AC3( 9-C52</b>               |                 |                    |                     | <b>Matrix) Soil</b> |                | <b>t a1c: ) ( C0CB30</b> |              | <b>u-05</b>        |
| <b>Ben. ene</b>                             | : D             | ///                | kyk158              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>zolNene</b>                              | : D             | ///                | kykWH               | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>Eth2lben. ene</b>                        | : D             | ///                | kykHl1              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>X2lenes, total</b>                       | : D             | ///                | kykTHD              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <i>Nurrogate1 %EW ifluorobenzene (Nurr)</i> |                 | <i>veco7eryl</i>   | <i>%P /</i>         | <i>0imits1</i>      | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>TolueneW2 (Nurr)</i>                     |                 |                    | <i>RR /</i>         |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <i>GMfomofluorobenzene (Nurr)</i>           |                 |                    | <i>%P /</i>         |                     | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |
| <b>TPCh-C3 7A( AC3( 9-CE2</b>               |                 |                    |                     | <b>Matrix) Soil</b> |                | <b>t a1c: ) ( C0CB30</b> |              | <b>u-05</b>        |
| <b>Ben. ene</b>                             | : D             | ///                | kyk1H4              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>zolNene</b>                              | : D             | ///                | kykWk               | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>EthylbenXene</b>                         | <b>0.263</b>    | ///                | kykHCB              | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <b>z ylenes, total</b>                      | <b>1.66</b>     | ///                | kykO                | mg0g Rr2            | 8k             | k16l 86l T               | 8kHBA645WC   |                    |
| <i>Nurrogate1 %EW ifluorobenzene (Nurr)</i> |                 | <i>veco7eryl</i>   | <i>%P3 /</i>        | <i>0imits1</i>      | <i>2PW3P /</i> | <i>%</i>                 | <i>P@4BR</i> | <i>HP, HAQ39PC</i> |

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



|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**ANALYTICAL SAMPLE RESULTS**

**t TEp VoX z ognds by EPA n85CV**

| Anal2te                      | Sample<br>uesNt                      | Detection<br>Limit | u eporting<br>Limit | d nits              | DilNion                  | Date<br>Anal2. eR | MethoRu efy | : otes |
|------------------------------|--------------------------------------|--------------------|---------------------|---------------------|--------------------------|-------------------|-------------|--------|
| <b>TPCh-C3 7A(AC3(9-CE2</b>  |                                      |                    |                     | <b>Matrix) Soil</b> | <b>t a1c: ) ( C0CB30</b> |                   | <b>u-05</b> |        |
|                              | Nurrogate1 Toluene W2 (Nurr)         |                    | veco7ery1 RR/       | 0imits1 2PW3P /     | %                        | P004BR            | HP, HAQ39PC |        |
|                              | GMromofluorobenzene (Nurr)           |                    | %9 /                | 2PW3P /             | %                        | P004BR            | HP, HAQ39PC |        |
| <b>TPC9-C3 7A(AC3(9-C) 2</b> |                                      |                    |                     | <b>Matrix) Soil</b> | <b>t a1c: ) ( C0CB30</b> |                   | <b>u-05</b> |        |
| Ben. ene                     | : D                                  | ///                | kjk11T              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| zolNene                      | : D                                  | ///                | kjk8TH              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| Eth2lben. ene                | : D                                  | ///                | kjk5T-              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| X2lenes, total               | : D                                  | ///                | kjk4Tk              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
|                              | Nurrogate1 %GM ifluorobenzene (Nurr) |                    | veco7ery1 %3 /      | 0imits1 2PW3P /     | %                        | P004BR            | HP, HAQ39PC |        |
|                              | Toluene W2 (Nurr)                    |                    | RR/                 | 2PW3P /             | %                        | P004BR            | HP, HAQ39PC |        |
|                              | GMromofluorobenzene (Nurr)           |                    | %9 /                | 2PW3P /             | %                        | P004BR            | HP, HAQ39PC |        |
| <b>TPC5-C3 7A(AC3(9-0C2</b>  |                                      |                    |                     | <b>Matrix) Soil</b> | <b>t a1c: ) ( C0CB30</b> |                   | <b>u-05</b> |        |
| Ben. ene                     | : D                                  | ///                | kjk15T              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| zolNene                      | : D                                  | ///                | kjkWQH              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| Eth2lben. ene                | : D                                  | ///                | kjkH51              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
| X2lenes, total               | : D                                  | ///                | kjkTWO              | mg0g Rr2            | 8k                       | k16l 86l T        | 8kHBA645WC  |        |
|                              | Nurrogate1 %GM ifluorobenzene (Nurr) |                    | veco7ery1 %2 /      | 0imits1 2PW3P /     | %                        | P004BR            | HP, HAQ39PC |        |
|                              | Toluene W2 (Nurr)                    |                    | %2P /               | 2PW3P /             | %                        | P004BR            | HP, HAQ39PC |        |
|                              | GMromofluorobenzene (Nurr)           |                    | %9 /                | 2PW3P /             | %                        | P004BR            | HP, HAQ39PC |        |



**Apex Laboratories, LLC**

12232 S.W. Garden Place  
 Tigard, OR 97223  
 503-718-2323  
 EPA ID: OR01039

|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**ANALYTICAL SAMPLE RESULTS**

**Percen1 Dry Wei6: 1**

| Anal2te                        | Sample<br>uesNt | Detection<br>Limit | u eporting<br>Limit | d nits              | DilNion | Date<br>Anal2. eR | MethoRu efy              | otes |
|--------------------------------|-----------------|--------------------|---------------------|---------------------|---------|-------------------|--------------------------|------|
| <b>TPC0-C3 7A( AC3( 9-C02</b>  |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>80.2</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |
| <b>TPC3-C3 7A( AC3( 9-C82</b>  |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>83.9</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |
| <b>TPC8-Ch 7A( AC3( 9-C52</b>  |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>88.0</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |
| <b>TPCh-C3 7A( AC3( 9-CB2</b>  |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>81.4</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |
| <b>TPC9-C3 7A( AC3( 9-C( 2</b> |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>84.0</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |
| <b>TPC5-C3 7A( AC3( 9-0C2</b>  |                 |                    |                     | <b>Matrix) Soil</b> |         |                   | <b>t a1c: ) ( C0CB38</b> |      |
| % Solids                       | <b>87.0</b>     | <b>///</b>         | 1ykk                | % b2 U eight        | 1       | k16l W6l T        | EPA 4kkkC                |      |

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.*



|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

| Anal2te                        | uesNt | Detection Limit      | ueporting Limit         | d nits                | DilNtion | Spi9e AmoNnt             | SoNcee uesNt | % u EC | Limits | u PD | Limit | : otes |
|--------------------------------|-------|----------------------|-------------------------|-----------------------|----------|--------------------------|--------------|--------|--------|------|-------|--------|
| <b>Uplank (9010741-ULK1)</b>   |       |                      |                         |                       |          | <b>Soil</b>              |              |        |        |      |       |        |
|                                |       |                      | PrepareRj k16l86lT1HjHl |                       |          | Anal2. eRj k16l86lT51j8O |              |        |        |      |       |        |
| <b>NWTPH-Dx</b>                |       |                      |                         |                       |          |                          |              |        |        |      |       |        |
| Diesel                         | : D   | ///                  | 58yk                    | mg6g wet              | 1        | ///                      | ///          | ///    | ///    | ///  | ///   |        |
| 7 il                           | : D   | ///                  | 8kyk                    | mg6g wet              | 1        | ///                      | ///          | ///    | ///    | ///  | ///   |        |
| <i>Nurr1 oWerphenyl (Nurr)</i> |       | <i>veco7ery1 R9/</i> |                         | <i>0imits1 HPW4P/</i> |          | <i>: ilution1 %5</i>     |              |        |        |      |       |        |
| <b>LCS (9010741-US1)</b>       |       |                      |                         |                       |          |                          |              |        |        |      |       |        |
|                                |       |                      | PrepareRj k16l86lT1HjHl |                       |          | Anal2. eRj k16l86lT55j1- |              |        |        |      |       |        |
| <b>NWTPH-Dx</b>                |       |                      |                         |                       |          |                          |              |        |        |      |       |        |
| Diesel                         | 15W   | ///                  | 5kyk                    | mg6g wet              | 1        | 158                      | ///          | 1k1    | -W118% | ///  | ///   |        |
| <i>Nurr1 oWerphenyl (Nurr)</i> |       | <i>veco7ery1 RR/</i> |                         | <i>0imits1 HPW4P/</i> |          | <i>: ilution1 %5</i>     |              |        |        |      |       |        |



|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**4 Gasoline Range Hydrocarbons by EPA Method 8210: Benzene, Toluene, Ethylbenzene, and Xylenes by NWTPH-4x**

| Sample                                                | Use | Detection Limit | Reporting Limit | Units     | Dilution | Spiked Amount | Spiked Use | % Recovery | % EC Limits | UPL | UPL Limit | Notes |
|-------------------------------------------------------|-----|-----------------|-----------------|-----------|----------|---------------|------------|------------|-------------|-----|-----------|-------|
| <b>Soil</b>                                           |     |                 |                 |           |          |               |            |            |             |     |           |       |
| <b>Blank (9010721-ULK1)</b>                           |     |                 |                 |           |          |               |            |            |             |     |           |       |
| Prepared by: k1686TK4JHK    Analyzed by: k1686TK1KJCO |     |                 |                 |           |          |               |            |            |             |     |           |       |
| <b>NWTPH-Gx (MS)</b>                                  |     |                 |                 |           |          |               |            |            |             |     |           |       |
| Gasoline range 7 organics                             | : D | ///             | HH              | mg/kg wet | 8k       | ///           | ///        | ///        | ///         | /// | ///       |       |
| Natural Monofluorobenzene (Nur)                       |     | very low        | RP              | limits    | HPWP     |               |            | dilution   | %           |     |           |       |
| Monofluorobenzene (Nur)                               |     |                 | RS              |           | HPWP     |               |            |            |             |     |           |       |
| <b>LCS (9010721-US2)</b>                              |     |                 |                 |           |          |               |            |            |             |     |           |       |
| Prepared by: k1686TK4JHK    Analyzed by: k1686TK1KJ1- |     |                 |                 |           |          |               |            |            |             |     |           |       |
| <b>NWTPH-Gx (MS)</b>                                  |     |                 |                 |           |          |               |            |            |             |     |           |       |
| Gasoline range 7 organics                             | SWT | ///             | 8yk             | mg/kg wet | 8k       | 58yk          | ///        | 1k-        | 4k/15k%     | /// | ///       |       |
| Natural Monofluorobenzene (Nur)                       |     | very low        | RR              | limits    | HPWP     |               |            | dilution   | %           |     |           |       |
| Monofluorobenzene (Nur)                               |     |                 | RR              |           | HPWP     |               |            |            |             |     |           |       |



**Apex Laboratories, LLC**

12232 S.W. Garden Place  
 Tigard, OR 97223  
 503-718-2323  
 EPA ID: OR01039

|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**4 Gasoline Range Hydrocarbons by EPA Method 8210: Benzene, Toluene, Ethylbenzene, and Xylenes by NWTPH-4x**

| Anal. Name                                                  | Units | Detection Limit | Reporting Limit | Units    | Dilution | Spiked Amount | Spiked Units | % Recovery | % EC Limits | uPD | uPD Limit | Notes |
|-------------------------------------------------------------|-------|-----------------|-----------------|----------|----------|---------------|--------------|------------|-------------|-----|-----------|-------|
| <b>Soil</b>                                                 |       |                 |                 |          |          |               |              |            |             |     |           |       |
| <b>Blank (9010765-ULK1)</b>                                 |       |                 |                 |          |          |               |              |            |             |     |           |       |
| Prepared by: k161 V61 T k4j88    Anal. by: k161 V61 T 11jCk |       |                 |                 |          |          |               |              |            |             |     |           |       |
| <b>NWTPH-Gx (MS)</b>                                        |       |                 |                 |          |          |               |              |            |             |     |           |       |
| Gasoline range 7 rganics                                    | : D   | ///             | HH              | mg/g wet | 8k       | ///           | ///          | ///        | ///         | /// | ///       |       |
| Nur1 Mofluorobenzene (Nur)                                  |       | veo7ery1        | %PG/            | 0imits1  | HPW4P/   |               |              | : ilution1 | %δ          |     |           |       |
| %W ifluorobenzene (Nur)                                     |       |                 | R3 /            |          | HPW4P/   |               |              |            |             |     |           | "     |
| <b>LCS (9010765-US2)</b>                                    |       |                 |                 |          |          |               |              |            |             |     |           |       |
| Prepared by: k161 V61 T k4j88    Anal. by: k161 V61 T 1kj1T |       |                 |                 |          |          |               |              |            |             |     |           |       |
| <b>NWTPH-Gx (MS)</b>                                        |       |                 |                 |          |          |               |              |            |             |     |           |       |
| Gasoline range 7 rganics                                    | 5HW   | ///             | 8yk             | mg/g wet | 8k       | 58yk          | ///          | TO         | 4k/15k%     | /// | ///       |       |
| Nur1 Mofluorobenzene (Nur)                                  |       | veo7ery1        | %PG/            | 0imits1  | HPW4P/   |               |              | : ilution1 | %δ          |     |           |       |
| %W ifluorobenzene (Nur)                                     |       |                 | R /             |          | HPW4P/   |               |              |            |             |     |           | "     |

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



|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**t TEp VoX zogns by EPA n85CV**

| Anal2te                                         | uesNt | Detection Limit | u eorting Limit | d nits | DilNtion | Spi9e AmoNt | SoNce uesNt | % u EC     | u PD | Limit | : otes |
|-------------------------------------------------|-------|-----------------|-----------------|--------|----------|-------------|-------------|------------|------|-------|--------|
| <b>t a1c: ( C0CB30 - EPA 9C89A)</b>             |       |                 |                 |        |          |             |             |            |      |       |        |
| <b>Soil</b>                                     |       |                 |                 |        |          |             |             |            |      |       |        |
| <b>Blank (9010721-ULK1)</b>                     |       |                 |                 |        |          |             |             |            |      |       |        |
| PrepareRj k16l86lTk4jHk Anal2. eRj k16l86lTkjCO |       |                 |                 |        |          |             |             |            |      |       |        |
| <b>5035A/8260C</b>                              |       |                 |                 |        |          |             |             |            |      |       |        |
| Ben. ene                                        | :     | D               | ///             | kykWW  | mg0g wet | 8k          | ///         | ///        | ///  | ///   | ///    |
| zolNene                                         | :     | D               | ///             | kykHH  | mg0g wet | 8k          | ///         | ///        | ///  | ///   | ///    |
| Eth2lben. ene                                   | :     | D               | ///             | kyk1W  | mg0g wet | 8k          | ///         | ///        | ///  | ///   | ///    |
| X2lenes, total                                  | :     | D               | ///             | kyk8kk | mg0g wet | 8k          | ///         | ///        | ///  | ///   | ///    |
| Nurr1 %W ifluorobenzene (Nurr)                  |       |                 | veco7ery1       | %P3 /  | 0imits1  | 2PW3P /     |             | : ilution1 | %5   |       |        |
| TolueneW2 (Nurr)                                |       |                 |                 | %P6 /  |          | 2PW3P /     |             |            | "    |       |        |
| GMomofluorobenzene (Nurr)                       |       |                 |                 | %P /   |          | 2PW3P /     |             |            | "    |       |        |

|                                                  |        |     |           |          |         |         |     |            |         |     |     |
|--------------------------------------------------|--------|-----|-----------|----------|---------|---------|-----|------------|---------|-----|-----|
| <b>LCS (9010721-US1)</b>                         |        |     |           |          |         |         |     |            |         |     |     |
| PrepareRj k16l86lTk4jHk Anal2. eRj k16l86lTkTj8k |        |     |           |          |         |         |     |            |         |     |     |
| <b>5035A/8260C</b>                               |        |     |           |          |         |         |     |            |         |     |     |
| Ben. ene                                         | kyT44  | /// | kyk1kk    | mg0g wet | 8k      | 1ykk    | /// | TT         | 4k/15k% | /// | /// |
| zolNene                                          | kyT- 1 | /// | kyk8kk    | mg0g wet | 8k      | 1ykk    | /// | T-         | 4k/15k% | /// | /// |
| Eth2lben. ene                                    | kyT- T | /// | kyk58k    | mg0g wet | 8k      | 1ykk    | /// | T4         | 4k/15k% | /// | /// |
| X2lenes, total                                   | 5yT1   | /// | kyk- 8k   | mg0g wet | 8k      | Hkk     | /// | T-         | 4k/15k% | /// | /// |
| Nurr1 %W ifluorobenzene (Nurr)                   |        |     | veco7ery1 | RS /     | 0imits1 | 2PW3P / |     | : ilution1 | %5      |     |     |
| TolueneW2 (Nurr)                                 |        |     |           | %P9 /    |         | 2PW3P / |     |            | "       |     |     |
| GMomofluorobenzene (Nurr)                        |        |     |           | %P6 /    |         | 2PW3P / |     |            | "       |     |     |

|                                                  |      |     |           |          |         |         |     |            |         |     |     |
|--------------------------------------------------|------|-----|-----------|----------|---------|---------|-----|------------|---------|-----|-----|
| <b>Matrix Spike (9010721-MS1)</b>                |      |     |           |          |         |         |     |            |         |     |     |
| PrepareRj k16l06lT1Hj8O Anal2. eRj k16l86lT1VjH8 |      |     |           |          |         |         |     |            |         |     |     |
| <b>QC Source Sample: TP06-02 (A9A0295-10)</b>    |      |     |           |          |         |         |     |            |         |     |     |
| <b>5035A/8260C</b>                               |      |     |           |          |         |         |     |            |         |     |     |
| Ben. ene                                         | 1yHW | /// | kyk15T    | mg0g Rr2 | 8k      | 1y5T    | : D | 1kW        | --/151% | /// | /// |
| zolNene                                          | 1y55 | /// | kykWCH    | mg0g Rr2 | 8k      | 1y5T    | : D | T8         | --/151% | /// | /// |
| Eth2lben. ene                                    | 1y54 | /// | kykH51    | mg0g Rr2 | 8k      | 1y5T    | : D | TT         | -W155%  | /// | /// |
| X2lenes, total                                   | Hj4O | /// | kykTWO    | mg0g Rr2 | 8k      | Hj4W    | : D | T4         | -4/150% | /// | /// |
| Nurr1 %W ifluorobenzene (Nurr)                   |      |     | veco7ery1 | %P /     | 0imits1 | 2PW3P / |     | : ilution1 | %5      |     |     |
| TolueneW2 (Nurr)                                 |      |     |           | RR /     |         | 2PW3P / |     |            | "       |     |     |
| GMomofluorobenzene (Nurr)                        |      |     |           | %P /     |         | 2PW3P / |     |            | "       |     |     |



|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**t TEp VoX zogns by EPA n85CV**

| Anal2te                                                 | uesNt | Detection Limit | u eporting Limit | d nits        | DilNtion | Spi9e AmoNt | SoNcee uesNt | % u EC | % u EC Limits | u PD | u PD Limit | : otes                       |
|---------------------------------------------------------|-------|-----------------|------------------|---------------|----------|-------------|--------------|--------|---------------|------|------------|------------------------------|
| <b>t a1c: ( C0CB59 - EPA 9C89A)</b>                     |       |                 |                  |               |          |             |              |        |               |      |            |                              |
| <b>Soil</b>                                             |       |                 |                  |               |          |             |              |        |               |      |            |                              |
| <b>Blank (9010765-ULK1)</b>                             |       |                 |                  |               |          |             |              |        |               |      |            |                              |
| Prepare Rj k16l V6l T k4j88 Anal2. eRj k16l V6l T 11jCk |       |                 |                  |               |          |             |              |        |               |      |            |                              |
| <b>5035A/8260C</b>                                      |       |                 |                  |               |          |             |              |        |               |      |            |                              |
| Ben. ene                                                | :     | D               | ///              | kyk1kk        | mg0g wet | 8k          | ///          | ///    | ///           | ///  | ///        | ///                          |
| zolNene                                                 | :     | D               | ///              | kyk8kk        | mg0g wet | 8k          | ///          | ///    | ///           | ///  | ///        | ///                          |
| Eth2lben. ene                                           | :     | D               | ///              | kyk1W         | mg0g wet | 8k          | ///          | ///    | ///           | ///  | ///        | ///                          |
| X2lenes, total                                          | :     | D               | ///              | kyk8kk        | mg0g wet | 8k          | ///          | ///    | ///           | ///  | ///        | ///                          |
| Nurr1 %W ifluorobenzene (Nurr)                          |       |                 |                  | veco7ery1 R2/ |          |             |              |        |               |      |            | 0imits1 2PW3P/ : ilution1 %δ |
| TolueneW2 (Nurr)                                        |       |                 |                  | R2/           |          |             |              |        |               |      |            | "                            |
| GMomofluorobenzene (Nurr)                               |       |                 |                  | %PR/          |          |             |              |        |               |      |            | "                            |

|                                                         |  |       |     |               |          |    |     |     |     |         |     |                              |
|---------------------------------------------------------|--|-------|-----|---------------|----------|----|-----|-----|-----|---------|-----|------------------------------|
| <b>LCS (9010765-US3)</b>                                |  |       |     |               |          |    |     |     |     |         |     |                              |
| Prepare Rj k16l C6l T 1kj1T Anal2. eRj k16l V6l T 1kjOW |  |       |     |               |          |    |     |     |     |         |     |                              |
| <b>5035A/8260C</b>                                      |  |       |     |               |          |    |     |     |     |         |     |                              |
| Ben. ene                                                |  | kyT8O | /// | kyk1kk        | mg0g wet | 8k | 1kk | /// | T8  | 4k/15k% | /// | ///                          |
| zolNene                                                 |  | kyTW  | /// | kyk8kk        | mg0g wet | 8k | 1kk | /// | T-  | 4k/15k% | /// | ///                          |
| Eth2lben. ene                                           |  | kyTT4 | /// | kyk58k        | mg0g wet | 8k | 1kk | /// | 1kk | 4k/15k% | /// | ///                          |
| X2lenes, total                                          |  | 5yTW  | /// | kyk- 8k       | mg0g wet | 8k | Hkk | /// | TT  | 4k/15k% | /// | ///                          |
| Nurr1 %W ifluorobenzene (Nurr)                          |  |       |     | veco7ery1 RH/ |          |    |     |     |     |         |     | 0imits1 2PW3P/ : ilution1 %δ |
| TolueneW2 (Nurr)                                        |  |       |     | RR/           |          |    |     |     |     |         |     | "                            |
| GMomofluorobenzene (Nurr)                               |  |       |     | %PG/          |          |    |     |     |     |         |     | "                            |



**Apex Laboratories, LLC**

12232 S.W. Garden Place  
 Tigard, OR 97223  
 503-718-2323  
 EPA ID: OR01039

|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Percent Dry Weight: 1**

| Anal/te                                                                        | u esNt | Detection Limit | u eporting Limit | d nits       | DilNtion | Spi9e AmoNnt | SoNce u esNt | % u EC | % u EC Limits | u PD | u PD Limit | : otes |
|--------------------------------------------------------------------------------|--------|-----------------|------------------|--------------|----------|--------------|--------------|--------|---------------|------|------------|--------|
| <b>Sample: (C0CB38 - Total Solids 7Dry Wei6: 12) Soil</b>                      |        |                 |                  |              |          |              |              |        |               |      |            |        |
| <b>Duplicate (9010723-DBP4) Prepare/Rj k16l86Tk4j85 Anal2. eRj k16lV6Tk4jH</b> |        |                 |                  |              |          |              |              |        |               |      |            |        |
| <b>QC Source Sample: TP01-02 (A9A0295-01)</b>                                  |        |                 |                  |              |          |              |              |        |               |      |            |        |
| <b>EPA 8000C</b>                                                               |        |                 |                  |              |          |              |              |        |               |      |            |        |
| % SoliRs                                                                       | 79.5   | ///             | 1ykk             | % b2 U eight | 1        | ///          | 4ky5         | ///    | ///           | kyT  | 1k%        |        |

: o Client relateRBatch QC samples anal2. eR for this batchy See notes page for more informationy

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



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

Project **Coleman Wenatchee**  
Project Number **2017-074**  
Project Manager **Craig Hultgren**

**Report ID:**  
**A9A0295 - 01 18 19 0925**

**SAMPLE PREPARATION INFORMATION**

**DrAsAl aud/eoOrh Cydævæbeus by N8 T\_ C7Dx**

| <u>oAp: E_6 4t 5H Rv Als</u> |        |             |               |               | Sample        | DefaNt        | u L Prep |
|------------------------------|--------|-------------|---------------|---------------|---------------|---------------|----------|
| Lab : Nmber                  | Matrix | MethoR      | SampleR       | PrepareR      | InitialFfinal | InitialFfinal | Factor   |
| <u>BahvS: V929P52</u>        |        |             |               |               |               |               |          |
| ATAk5T8/k1uE1                | Soil   | : Uz P0 /Dx | k1k- 6T 1kjH8 | k1k 86T 1HjHl | 1ky8Q6mL      | 1kg6mL        | kyT8     |
| ATAk5T8/kHuE1                | Soil   | : Uz P0 /Dx | k1k- 6T 1kj8k | k1k 86T 1HjHl | 11yT8g6mL     | 1kg6mL        | ky4O     |
| ATAk5T8/kW                   | Soil   | : Uz P0 /Dx | k1k- 6T 11j58 | k1k 86T 1HjHl | 11yQ6mL       | 1kg6mL        | ky44     |
| ATAk5T8/k- uE1               | Soil   | : Uz P0 /Dx | k1k- 6T 11jH8 | k1k 86T 1HjHl | 1kyTvg6mL     | 1kg6mL        | kyT1     |
| ATAk5T8/kT                   | Soil   | : Uz P0 /Dx | k1k- 6T 11j8k | k1k 86T 1HjHl | 11yC8g6mL     | 1kg6mL        | ky4-     |
| ATAk5T8/1kuE1                | Soil   | : Uz P0 /Dx | k1k- 6T 15jkk | k1k 86T 1HjHl | 11yl1g6mL     | 1kg6mL        | kyTk     |

**GaselnuA ( augA Cydævæbeus FBauzAuA f8ærgS NapSfSalAuA) by N8 T\_ C7Gx**

| <u>oAp: E_6 t 94t 6</u> |        |                  |               |               | Sample        | DefaNt        | u L Prep |
|-------------------------|--------|------------------|---------------|---------------|---------------|---------------|----------|
| Lab : Nmber             | Matrix | MethoR           | SampleR       | PrepareR      | InitialFfinal | InitialFfinal | Factor   |
| <u>BahvS: V929P02</u>   |        |                  |               |               |               |               |          |
| ATAk5T8/kW              | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 11j58 | k1k 06T 1Hj8O | 8yl5g6mL      | 8g6mL         | kyT4     |
| ATAk5T8/k-              | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 11jH8 | k1k 06T 1Hj8O | 8yHhg6mL      | 8g6mL         | kyTO     |
| ATAk5T8/kT              | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 11j8k | k1k 06T 1Hj8O | 8yT4g6mL      | 8g6mL         | ky4O     |
| ATAk5T8/1k              | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 15jkk | k1k 06T 1Hj8O | 8kVg6mL       | 8g6mL         | kyTT     |
| <u>BahvS: V929PHt</u>   |        |                  |               |               |               |               |          |
| ATAk5T8/k1uE1           | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 1kjH8 | k1k 06T 1Hj8O | 8yH g6mL      | 8g6mL         | kyTH     |
| ATAk5T8/kHuE1           | Soil   | : Uz P0 /Gx (MS) | k1k- 6T 1kj8k | k1k 06T 1Hj8O | 8y4Qg6mL      | 8g6mL         | ky4W     |

**BTEX L emper uds by E\_6 10H9L**

| <u>oAp: E_6 t 94t 6</u> |        |            |               |               | Sample        | DefaNt        | u L Prep |
|-------------------------|--------|------------|---------------|---------------|---------------|---------------|----------|
| Lab : Nmber             | Matrix | MethoR     | SampleR       | PrepareR      | InitialFfinal | InitialFfinal | Factor   |
| <u>BahvS: V929P02</u>   |        |            |               |               |               |               |          |
| ATAk5T8/k1              | Soil   | 8kFBA645Wc | k1k- 6T 1kjH8 | k1k 06T 1Hj8O | 8yH g6mL      | 8g6mL         | kyTH     |
| ATAk5T8/kW              | Soil   | 8kFBA645Wc | k1k- 6T 11j58 | k1k 06T 1Hj8O | 8yl5g6mL      | 8g6mL         | kyT4     |
| ATAk5T8/k-              | Soil   | 8kFBA645Wc | k1k- 6T 11jH8 | k1k 06T 1Hj8O | 8yHhg6mL      | 8g6mL         | kyTO     |
| ATAk5T8/kT              | Soil   | 8kFBA645Wc | k1k- 6T 11j8k | k1k 06T 1Hj8O | 8yT4g6mL      | 8g6mL         | ky4O     |
| ATAk5T8/1k              | Soil   | 8kFBA645Wc | k1k- 6T 15jkk | k1k 06T 1Hj8O | 8kVg6mL       | 8g6mL         | kyTT     |
| <u>BahvS: V929PHt</u>   |        |            |               |               |               |               |          |
| ATAk5T8/k1uE1           | Soil   | 8kFBA645Wc | k1k- 6T 1kjH8 | k1k 06T 1Hj8O | 8yH g6mL      | 8g6mL         | kyTH     |
| ATAk5T8/kHuE1           | Soil   | 8kFBA645Wc | k1k- 6T 1kj8k | k1k 06T 1Hj8O | 8y4Qg6mL      | 8g6mL         | ky4W     |

**\_AovAuhDoy 8 AngSh**

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**

12232 S.W. Garden Place  
 Tigard, OR 97223  
 503-718-2323  
 EPA ID: OR01039

|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**SAMPLE PREPARATION INFORMATION**

Ac/AuhDay 8 ArgSh

| <u>Op: Total i elrds fDoy 8 ArgSh</u> |        |           |              |              |              | Sample       | DefaNt | u L Prep |
|---------------------------------------|--------|-----------|--------------|--------------|--------------|--------------|--------|----------|
| Lab : Nmber                           | Matrix | MethoR    | SampleR      | PrepareR     | InitialFinal | InitialFinal | Factor |          |
| <u>BehvS: V929P04</u>                 |        |           |              |              |              |              |        |          |
| ATAk5T8/k1                            | Soil   | EPA 4kkkC | k10k-0T1kjF8 | k10k-0T1kjF8 | k10k-0T1kjF8 | k10k-0T1kjF8 | : A    |          |
| ATAk5T8/kH                            | Soil   | EPA 4kkkC | k10k-0T1kj8k | k10k-0T1kj8k | k10k-0T1kj8k | k10k-0T1kj8k | : A    |          |
| ATAk5T8/kW                            | Soil   | EPA 4kkkC | k10k-0T11j58 | k10k-0T11j58 | k10k-0T11j58 | k10k-0T11j58 | : A    |          |
| ATAk5T8/k-                            | Soil   | EPA 4kkkC | k10k-0T11jF8 | k10k-0T11jF8 | k10k-0T11jF8 | k10k-0T11jF8 | : A    |          |
| ATAk5T8/kT                            | Soil   | EPA 4kkkC | k10k-0T11j8k | k10k-0T11j8k | k10k-0T11j8k | k10k-0T11j8k | : A    |          |
| ATAk5T8/1k                            | Soil   | EPA 4kkkC | k10k-0T15jkk | k10k-0T15jkk | k10k-0T15jkk | k10k-0T15jkk | : A    |          |

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**

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

|                                                                           |                                                                                                                |                                                     |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**QUALIFIER DEFINITIONS**

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

**Apex Laboratories**

- F-11**      The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component
- F-13**      The chromatographic pattern does not resemble the fuel standard for quantitation
- F-15**      Uncertainties for diesel are estimated not to overlap from the reported diesel results
- F-16**      Uncertainties for oil are estimated not to overlap from the reported diesel results
- F-19**      Uncertainties are estimated due to the presence of multiple fuel products
- S-01**      SNrogate recover2 for this sample is not available due to sample dilution required for high analyte concentration and/or matrix interference
- S-05**      SNrogate recover2 is estimated due to sample dilution required for high analyte concentration and/or matrix interference
- V-16**      Sample aliquot was subsampled from the sample container in the laboratory; the subsampled aliquot was not preserved within 04 hours of sampling

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



|                                                                           |                                                                                                                |                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b>Coleman Wenatchee</b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**REPORTING NOTES AND CONVENTIONS:**

**Abbreviations:**

- DEz Anal2te DEz ECz ED at or above the Detection or reporting limity
- : D Anal2te : 7 z DEz ECz ED at or above the Detection or reporting limity
- : u u esNt : ot u eporteR
- u PD u elative Percent Difference

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (L7 Ds) are normal2 set at a level of one half the valiRateRLimit of QNantitation (L7 Q)y  
If no valNē is listeR(/////), then the Rata has not been evalNateRbelow the u eorting Limity

**Reporting Limits: Limit of Quantitation (LOQ)**

ValiRateRLimits of QNantitation (L7 Qs) are reporteRas the u eorting Limits for all anal2ses where the L7 Q, Mu L, PQL or Cu L are reqNesteRyz he L7 Q represents a level at or above the low point of the calibration cNve, that has been valiRateRaccorRing to Apex Laboratories' comprehensive L7 Q policies anRproceRNesy

**Reporting Conventions:**

- Basisj u esNts for soil samples are general2 reporteR on a 1kk% Rr2 weight basisy  
z he u esNt Basis is listeR following the Nnits as " Rr2", " wet", or "" (blan9) Resignationy  
" Rr2" Sample resNts anRu eorting Limits are reporteR on a Rr2 weight basisy(iey "Ng0g Rr2")  
See Percent SoliRs section for Retails of Rr2 weight anal2sisy  
" wet" Sample resNts anRu eorting Limits for this anal2sis are normal2 Rr2 weight correcteR, bN have not been moRifieR in this casey  
" " u esNts withoN 'wet' or 'Rr2' Resignation are not normal2 Rr2 weight correcteRyz hese resNts are consiRereR'As u eceiveRy

**QC Source:**

In cases where there is insNficient sample proviReR for Sample DNplicate anRor Matrix Spi9es, a Lab Control Sample DNplicate (LCS DNp) ma2 be anal2. eRto Remonstrate accNac2 anRprecision of the extraction batchy  
: on/Client Batch QC Samples (DNplicate anRMatrix Spi9eDNplicate) are not inclNReR in this reportyPlease reqNest a FNI QC report if this Rata is reqNreRy

**Miscellaneous Notes:**

- " /// " QC resNts are not applicablyFor example, % u ecoveries for Blan9s anRDNplicate, % u PD for Blan9s, Blan9 Spi9es anRMatrix Spi9es, etcy
- " \*\*\* " d seRto inRicate a possible Riscepanc2 with the Sample anRSample DNplicate resNts when the %u PD is not availably In this case, either the Sample or the Sample DNplicate has a reportable resNt for this anal2te, while the other is : on Detect (: D)y

**Blanks:**

StanRarRpractice is to evalNate the resNts from Blan9 QC Samples Rown to a level eqNal to 1/2 the u eorting Limit (u L)y  
/For Blan9 hits falling between 1/2 the u L anRthe u L (J flaggeR hits), the associateRsample anRQC Rata will receive a 'B/k5' qNalifiery  
/For Blan9 hits above the u L, the associateRsample anRQC Rata will receive a 'B' qNalifier, per Apex Laboratories' Blan9 Polic2y  
For fNther Retails, please reqNest a cop2 of this RocNnenty



**Apex Laboratories, LLC**

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

|                                                                           |                                                                                                             |                                              |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>HydroCon LLC</b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project <b>Coleman Wenatchee</b><br>Project Number <b>2017-074</b><br>Project Manager <b>Craig Hultgren</b> | <b>Report ID:</b><br>A9A0295 - 01 18 19 0925 |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|

**REPORTING NOTES AND CONVENTIONS (Cont.):**

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B/k5' qualifier are potentially 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/k5' 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 recanted 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 recanted 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 times (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 required, 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 analyses 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 rate 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 as qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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**

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
**EPA ID: OR01039**

|                                                                                  |                                                                                                                       |                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b><u>HydroCon LLC</u></b><br>314 W 15th Street Suite 300<br>Vancouver, WA 98660 | Project: <b><u>Coleman Wenatchee</u></b><br>Project Number: <b>2017-074</b><br>Project Manager: <b>Craig Hultgren</b> | <b>Report ID:</b><br><b>A9A0295 - 01 18 19 0925</b> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|

**LABORATORY ACCREDITATION INFORMATION**

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

All methods and analyses reported from work performed at Apex Laboratories are included on Apex Laboratories' 7 u ELAP Scope of Certification, with the exception of any analysis(es) listed below

**Apex Laboratories**

| Matrix | Analysis | z: I_ID | Analysis | z: I_ID | Accreditation |
|--------|----------|---------|----------|---------|---------------|
|--------|----------|---------|----------|---------|---------------|

All reported analyses are included in Apex Laboratories' current 7 u ELAP scope

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non/z: I states (U ashington D7 E), 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 final details, or contact your Project Manager for more information

**Field Testing Parameters**

Results for field testing are provided to the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation

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.*



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

Project **Coleman Wenatchee**  
Project Number **2017-074**  
Project Manager **Craig Hultgren**

**Report ID:**  
A9A0295 - 01 18 19 0925

COC 1 of 1

**CHAIN OF CUSTODY**

Lab # **A9A0295** PO# **2017-074**

Project Name: **Coleman W**

Project Mgr: **Craig Hultgren** Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Address: **314 W 15th Street Suite 300 Vancouver WA 98660**

Company: **HydroCon**

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

| SAMPLE ID | LAB ID # | DATE  | TIME | MATRIX | # OF CONTAINERS | ANALYSIS REQUEST |    |
|-----------|----------|-------|------|--------|-----------------|------------------|----|
|           |          |       |      |        |                 | WA               | OR |
| TP01-02   |          | 17-Hg | 1035 | Sal    | 1               |                  |    |
| TP01-04   |          | 1040  |      |        | 1               |                  |    |
| TP02-02   |          | 1050  |      |        | 1               |                  |    |
| TP02-04   |          | 1055  |      |        | 1               |                  |    |
| TP03-02   |          | 1100  |      |        | 1               |                  |    |
| TP03-04   |          | 1125  |      |        | 1               |                  |    |
| TP04-02   |          | 1155  |      |        | 1               |                  |    |
| TP04-04   |          | 1140  |      |        | 1               |                  |    |
| TP05-02   |          | 1150  |      |        | 1               |                  |    |
| TP06-02   |          | 1200  |      |        | 1               |                  |    |

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **1 Day** 2 Day 3 Day 4 DAY 5 DAY Other: \_\_\_\_\_

SPECIAL INSTRUCTIONS: **Hold all samples**

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

Signature: **[Signature]** Date: **10/19/19** Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: **Christ A. Hult** Time: **10:20** Printed Name: \_\_\_\_\_ Time: \_\_\_\_\_

Company: **HydroCon** Company: **Apex**

*Lisa Domenighini*



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

Project: Coleman Wenatchee  
Project Number: 2017-074  
Project Manager: Craig Hultgren

Report ID:  
A9A0295 - 01 18 19 0925

**APEX LABS COOLER RECEIPT FORM**

Client: HydroCon Element WO#: A9 A0295

Project/Project #: Coleman 0:1 / #2017-074

**Delivery Info:**

Date/time received: 1/11/19 @ 10:20 By: MS

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

**Cooler Inspection** Date/time inspected: 1/11/19 @ 10:20 By: MS

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

Signed/dated by client? Yes  No

Signed/dated by Apex? Yes  No

|                            | Cooler #1   | Cooler #2   | Cooler #3   | Cooler #4 | Cooler #5 | Cooler #6 | Cooler #7 |
|----------------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|
| Temperature (°C)           | <u>2.4</u>  | <u>1.1</u>  | <u>2.1</u>  |           |           |           |           |
| Received on ice? (Y/N)     | <u>Y</u>    | <u>Y</u>    | <u>Y</u>    |           |           |           |           |
| Temp. blanks? (Y/N)        | <u>N</u>    | <u>N</u>    | <u>N</u>    |           |           |           |           |
| Ice type: (Gel/Real/Other) | <u>Real</u> | <u>Real</u> | <u>Real</u> |           |           |           |           |
| Condition:                 | <u>Good</u> | <u>Good</u> | <u>Good</u> |           |           |           |           |

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: 1/11/19 @ 12:53 By: MS

All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: \_\_\_\_\_

COC/container discrepancies form initiated? Yes  No  NA

Containers/volumes received appropriate for analysis? Yes  No  Comments: \_\_\_\_\_

Do VOA vials have visible headspace? Yes  No  NA

Comments: \_\_\_\_\_

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

Comments: \_\_\_\_\_

Additional information: UPS # 1Z EFD 708 01 4663 1218.

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



## **APPENDIX E**

### **DATA QUALITY REVIEW REPORTS**

**TO:** Craig Hultgren, HydroCon  
**FROM:** Manon Tanner-Dave  
**DATE:** January 22, 2019  
**SUBJECT:** Laboratory Validation Report

**HydroCon TOC Site No.** Coleman Wenatchee – 2017-074

**Sampling Event Type:** Soil Sampling **Number of Samples:** 30

**Laboratory Work Order:** A9A0293 **Final Report Date & Time:** January 18, 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)
- BETX (8021B)
- Total Lead (200.8)
- 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, with the exceptions noted below:

The laboratory noted upon arrival that the time collected on 1 of 2 methanol-preserved bottles for sample HC11-11 was different than the date recorded on the chain of custody forms. No qualifiers were applied to the results.

The aliquots used for the NWTPH-Gx and BTEX analyses for sample HC10-12 were not preserved within 48 hours of sampling; results were flagged by the lab (V-16) and qualified as estimated (J/UJ-HT).

**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                                                 |
|-----------|---------------|----------|------------------------------------|-----------|--------------------------------------------------------------------|
| HC03-10   | A9A0293-02RE1 | NWTPH-Dx | 99%                                | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier.                      |
| HC04-07   | A9A0293-04RE1 | NWTPH-Dx | Not recovered due to 25x dilution. | 50-150%   | S-01: J-SSR all results.                                           |
| HC04-09   | A9A0293-05    | NWTPH-Dx | Not recovered due to 20x dilution. | 50-150%   | S-01: J-SSR all results.                                           |
| HC06-12   | A9A0293-11    | NWTPH-Dx | 109%                               | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier.                      |
| HC11-11   | A9A0293-24RE1 | NWTPH-Dx | 111%                               | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier.                      |
| HC12-12   | A9A0293-27RE1 | NWTPH-Dx | 109%                               | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier.                      |
| HC06-12   | A9A0293-11    | NWTPH-Gx | 1,4-Difluorobenzene:<br>153%       | 50-150%   | S-08: 8260 surrogate recoveries were w/in QC limits; no qualifier. |
| HC07-05   | A9A0293-14    | NWTPH-Gx | 4-Bromofluorobenzene:<br>165%      | 50-150%   | S-08: 8260 surrogate recoveries were w/in QC limits; no qualifier. |

**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 relative percent difference (RPD) 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 – no field duplicates collected.

**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-03) The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
  - J/UJ-Other qualify affected results.
- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
  - J/UJ-Other qualify affected results.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
  - J/UJ-Chrom qualify affected results.
- (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.

**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.

The data meet the criteria outlined above, with the noted exceptions. No data were rejected and completeness was 100 percent. All results are usable for their intended purpose.

## 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-03) The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
- (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.

### Validation qualifiers:

- (J) The result is an estimated quantity.
- (UJ) Estimated and not detected. The analyte is considered not detected at the reported value, and the associated numerical value is an estimated value.

### Reason codes:

- Chrom = Chromatographic pattern doesn't match the pattern of the calibration standard.
- HT = Holding time/sample preservation.
- Mi = Matrix interference.
- Other = Other, described in data validation report.
- SSR = Surrogate spike recovery.

**Appendix B. Validator Qualified Data Summary Table**

| <b>Sample ID</b> | <b>Laboratory ID</b> | <b>Method</b> | <b>Parameter Name</b> | <b>Result</b> | <b>Result Units</b> | <b>Laboratory Qualifier</b> | <b>Validator Qualifier</b> | <b>Reason Code</b> |
|------------------|----------------------|---------------|-----------------------|---------------|---------------------|-----------------------------|----------------------------|--------------------|
| HC03-10          | A9A0293-02RE1        | NWTPH-Dx      | Diesel                | 3,240         | mg/kg               | F-13                        | J                          | Chrom              |
| HC04-07          | A9A0293-04RE1        | NWTPH-Dx      | Diesel                | 631           | mg/kg               | F-15, S-01                  | J                          | Mi, SSR            |
| HC04-07          | A9A0293-04RE1        | NWTPH-Dx      | Oil                   | 4,640         | mg/kg               | F-16, S-01                  | J                          | Mi, SSR            |
| HC04-09          | A9A0293-05           | NWTPH-Dx      | Diesel                | 6,400         | mg/kg               | S-01                        | J                          | SSR                |
| HC04-09          | A9A0293-05           | NWTPH-Dx      | Oil                   | < 869         | mg/kg               | S-01                        | UJ                         | SSR                |
| HC05-10          | A9A0293-07           | NWTPH-Dx      | Diesel                | 130           | mg/kg               | F-11, F-15                  | J                          | Other, Mi          |
| HC05-10          | A9A0293-07           | NWTPH-Dx      | Oil                   | 62.9          | mg/kg               | F-16                        | J                          | Mi                 |
| HC05-12          | A9A0293-08           | NWTPH-Dx      | Diesel                | 2,210         | mg/kg               | F-15                        | J                          | Mi                 |
| HC05-12          | A9A0293-08           | NWTPH-Dx      | Oil                   | 316           | mg/kg               | F-16                        | J                          | Mi                 |
| HC09-02          | A9A0293-19RE2        | NWTPH-Dx      | Diesel                | 3,320         | mg/kg               | F-15                        | J                          | Mi                 |
| HC09-02          | A9A0293-19RE2        | NWTPH-Dx      | Oil                   | 515           | mg/kg               | F-16                        | J                          | Mi                 |
| HC10-15          | A9A0293-22           | NWTPH-Dx      | Oil                   | 51.7          | mg/kg               | F-03                        | J                          | Other              |
| HC11-06          | A9A0293-23           | NWTPH-Dx      | Diesel                | 45.0          | mg/kg               | F-11, F-15                  | J                          | Other, Mi          |
| HC11-06          | A9A0293-23           | NWTPH-Dx      | Oil                   | 1,110         | mg/kg               | F-16                        | J                          | Mi                 |
| HC11-11          | A9A0293-24RE1        | NWTPH-Dx      | Diesel                | 6,760         | mg/kg               | F-15                        | J                          | Mi                 |
| HC11-11          | A9A0293-24RE1        | NWTPH-Dx      | Oil                   | 1,740         | mg/kg               | F-16                        | J                          | Mi                 |
| HC12-12          | A9A0293-27RE1        | NWTPH-Dx      | Diesel                | 3,790         | mg/kg               | F-13                        | J                          | Chrom              |
| BH-1R-32         | A9A0293-29           | NWTPH-Dx      | Diesel                | 73.5          | mg/kg               | F-13, F-15                  | J                          | Chrom, Mi          |
| BH-1R-32         | A9A0293-29           | NWTPH-Dx      | Oil                   | 125           | mg/kg               | F-03, F-16                  | J                          | Other, Mi          |
| BH-R-37          | A9A0293-30           | NWTPH-Dx      | Diesel                | 400           | mg/kg               | F-13                        | J                          | Chrom              |

|         |            |           |                |          |       |      |    |    |
|---------|------------|-----------|----------------|----------|-------|------|----|----|
| HC10-12 | A9A0293-21 | NWTPH-Gx  | GRO            | 17.6     | mg/kg | V-16 | J  | HT |
| HC10-12 | A9A0293-21 | EPA 8260C | Benzene        | < 0.0117 | mg/kg | V-16 | UJ | HT |
| HC10-12 | A9A0293-21 | EPA 8260C | Toluene        | < 0.0584 | mg/kg | V-16 | UJ | HT |
| HC10-12 | A9A0293-21 | EPA 8260C | Ethylbenzene   | < 0.0292 | mg/kg | V-16 | UJ | HT |
| HC10-12 | A9A0293-21 | EPA 8260C | Xylenes, total | < 0.0876 | mg/kg | V-16 | UJ | HT |

**TO:** Craig Hultgren, HydroCon  
**FROM:** Manon Tanner-Dave  
**DATE:** January 24, 2019 (Revised February 26, 2019)  
**SUBJECT:** Laboratory Validation Report

---

**HydroCon TOC Site No.** Coleman Wenatchee – 2017-074

**Sampling Event Type:** Soil Sampling **Number of Samples:** 6

**Laboratory Work Order:** A9A0295 **Final Report Date & Time:** January 18, 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 – Tentatively Identified Compounds (EPA 8260B), Oxygenates (EPA 8260C)

**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, with the exceptions noted below:

The aliquots used for the NWTPH-Gx, BTEX, VOC, TIC, and Oxygenates analyses for all samples were not preserved within 48 hours of sampling; results were flagged by the lab (V-16) and qualified as estimated (J/UJ-HT).

All non-detect results from the Oxygenates analyses were rejected (R-HT) due to exceedance in holding time requirements.

**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                            |
|-----------|---------------|----------|------------------------------------|-----------|-----------------------------------------------|
| TP01-02   | A9A0295-01RE1 | NWTPH-Dx | 117%                               | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier. |
| TP02-02   | A9A0295-03RE1 | NWTPH-Dx | 92%                                | 50-150%   | S-05: Surrogate w/in QC limits, no qualifier. |
| TP04-02   | A9A0295-07RE1 | NWTPH-Dx | Not recovered due to 25x dilution. | 50-150%   | S-01: J/UJ-SSR all results.                   |

**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, with the following exceptions:

| LCS/LCSD                | Percent Recovery |     | Control Limit | Associated Samples | Comments/Qualifiers                  |
|-------------------------|------------------|-----|---------------|--------------------|--------------------------------------|
|                         | Compound         | LCS |               |                    |                                      |
| LCS (9010721-BS1)       |                  |     |               |                    |                                      |
| Bromoform               | 68%              | NA  | 80-120%       | TP01-02            | J/UJ-LCS qualify results.            |
| Chloroethane            | 63%              | NA  |               |                    |                                      |
| Dibromochloromethane    | 74%              | NA  |               |                    |                                      |
| Dichlorodifluoromethane | 53%              | NA  |               |                    |                                      |
| Trichlorofluoromethane  | 56%              | NA  |               |                    |                                      |
| Vinyl chloride          | 73%              | NA  |               |                    |                                      |
| 2-Hexanone              | 142%             | NA  |               |                    | Result was ND; no qualifier applied. |

**Method Blank:**

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

**Field Duplicate(s):**

Not applicable – no field duplicates were collected.

**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; except for the rejected Oxygenates results.

### Laboratory qualifiers for NWTPH-Dx:

- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
  - J/UJ-Other qualify affected results.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
  - J/UJ-Chrom qualify affected results.
- (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, with the exceptions noted below:

**TICs:** All tentatively identified compounds (TICs) were analyzed from an aliquot that was not preserved within 48 hours of sampling (V-16); these results should be restated as estimated (J/UJ-HT). In addition, all TIC results for which there is presumptive evidence of a match should be restated as estimated (NJ-TIC).

**Oxygenates:** Sample TP01-02 was analyzed from an aliquot that was not preserved within 48 hours of sampling (V-16) and grossly outside of holding time requirements. The sample was analyzed twice: once on 2/4/2019 at a 2000x dilution, and then on 2/14/2019 at a 200x dilution. The results from the 2/4/2019 analysis were qualified as DNR-Other since there were more recent results reported. All results from the 2/14/2019 analysis were non-detect and rejected due to the exceedance in the holding time requirement.

## 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, except for the following:

**Oxygenates:** Data set from 2/4/2019 was flagged during validation as DNR-Other due to a more recent analysis on 2/14/2019. The data results from 2/14/2019 were rejected due to exceedance of the holding time requirement.

## 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-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
- (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.
- (M-02) Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- (Q-54g) Daily continuing calibration verification recovery for this analyte failed the  $\pm 20\%$  criteria listed in EPA method 8260C/8270D by -12%. The results are reported as estimated values.
- (Q-54h) Daily continuing calibration verification recovery for this analyte failed the  $\pm 20\%$  criteria listed in EPA method 8260C/8270D by -17%. The results are reported as estimated values.
- (Q-54i) Daily continuing calibration verification recovery for this analyte failed the  $\pm 20\%$  criteria listed in EPA method 8260C/8270D by -24%. The results are reported as estimated values.
- (Q-54j) Daily continuing calibration verification recovery for this analyte failed the  $\pm 20\%$  criteria listed in EPA method 8260C/8270D by -27%. The results are reported as estimated values.
- (S-01) Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- (R-02) The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- (V-16) Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

### Validation qualifiers:

- (DNR) Do not report.
- (J) The result is an estimated quantity.
- (R) Rejected. The data are unusable.
- (UJ) Estimated and not detected. The analyte is considered not detected at the reported value, and the associated numerical value is an estimated value.

### Reason codes:

- Cc = Calibration (continuing).
- Chrom = Chromatographic pattern doesn't match the pattern of the calibration standard.
- HT = Holding time/sample preservation.
- Mi = Matrix interference.
- Other = Other, described in data validation report.
- SSR = Surrogate spike recovery.

**Appendix B. Validator Qualified Data Summary Table**

| Sample  | Laboratory ID | Method    | Parameter Name | Result   | Result Units | Laboratory Qualifier | Validator Qualifier | Reason Code |
|---------|---------------|-----------|----------------|----------|--------------|----------------------|---------------------|-------------|
| TP01-02 | A9A0295-01RE1 | NWTPH-Dx  | Diesel         | 3,510    | mg/kg        | F-19                 | J                   | Mi          |
| TP01-02 | A9A0295-01RE1 | NWTPH-Dx  | Oil            | 1,850    | mg/kg        | F-16                 | J                   | Mi          |
| TP03-04 | A9A0295-06    | NWTPH-Dx  | Diesel         | 119      | mg/kg        | F-11                 | J                   | Other       |
| TP04-02 | A9A0295-07RE1 | NWTPH-Dx  | Diesel         | < 560    | mg/kg        | S-01                 | UJ                  | SSR         |
| TP04-02 | A9A0295-07RE1 | NWTPH-Dx  | Oil            | 4,270    | mg/kg        | S-01                 | J                   | SSR         |
| TP05-02 | A9A0295-09    | NWTPH-Dx  | Diesel         | 270      | mg/kg        | F-11                 | J                   | Other       |
| TP06-02 | A9A0295-10RE1 | NWTPH-Dx  | Diesel         | 580      | mg/kg        | F-13, F-15           | J                   | Chrom, Mi   |
| TP06-02 | A9A0295-10RE1 | NWTPH-Dx  | Oil            | 61.1     | mg/kg        | F-16                 | J                   | Mi          |
| TP01-02 | A9A0295-01RE1 | NWTPH-Gx  | GRO            | 4,970    | mg/kg        | V-16                 | J                   | HT          |
| TP02-02 | A9A0295-03RE1 | NWTPH-Gx  | GRO            | < 6.06   | mg/kg        | V-16                 | UJ                  | HT          |
| TP03-04 | A9A0295-06    | NWTPH-Gx  | GRO            | < 6.23   | mg/kg        | V-16                 | UJ                  | HT          |
| TP04-02 | A9A0295-07    | NWTPH-Gx  | GRO            | 47.6     | mg/kg        | V-16                 | J                   | HT          |
| TP05-02 | A9A0295-09    | NWTPH-Gx  | GRO            | < 5.93   | mg/kg        | V-16                 | UJ                  | HT          |
| TP06-02 | A9A0295-10    | NWTPH-Gx  | GRO            | < 6.43   | mg/kg        | V-16                 | UJ                  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Benzene        | 0.328    | mg/kg        | V-16                 | J                   | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Toluene        | 0.408    | mg/kg        | V-16                 | J                   | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Ethylbenzene   | 40.5     | mg/kg        | V-16                 | J                   | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Xylenes, total | 343      | mg/kg        | V-16                 | J                   | HT          |
| TP02-02 | A9A0295-03RE1 | EPA 8260C | Benzene        | < 0.0121 | mg/kg        | V-16                 | UJ                  | HT          |
| TP02-02 | A9A0295-03RE1 | EPA 8260C | Toluene        | < 0.0606 | mg/kg        | V-16                 | UJ                  | HT          |

|         |               |           |                      |          |       |            |    |        |
|---------|---------------|-----------|----------------------|----------|-------|------------|----|--------|
| TP02-02 | A9A0295-03RE1 | EPA 8260C | Ethylbenzene         | < 0.0303 | mg/kg | V-16       | UJ | HT     |
| TP02-02 | A9A0295-03RE1 | EPA 8260C | Xylenes, total       | < 0.0910 | mg/kg | V-16       | UJ | HT     |
| TP03-04 | A9A0295-06    | EPA 8260C | Benzene              | < 0.0125 | mg/kg | V-16       | UJ | HT     |
| TP03-04 | A9A0295-06    | EPA 8260C | Toluene              | < 0.0623 | mg/kg | V-16       | UJ | HT     |
| TP03-04 | A9A0295-06    | EPA 8260C | Ethylbenzene         | < 0.0311 | mg/kg | V-16       | UJ | HT     |
| TP03-04 | A9A0295-06    | EPA 8260C | Xylenes, total       | < 0.0934 | mg/kg | V-16       | UJ | HT     |
| TP04-02 | A9A0295-07    | EPA 8260C | Benzene              | < 0.0138 | mg/kg | V-16       | UJ | HT     |
| TP04-02 | A9A0295-07    | EPA 8260C | Toluene              | < 0.0690 | mg/kg | V-16       | UJ | HT     |
| TP04-02 | A9A0295-07    | EPA 8260C | Ethylbenzene         | 0.263    | mg/kg | V-16       | J  | HT     |
| TP04-02 | A9A0295-07    | EPA 8260C | Xylenes, total       | 1.66     | mg/kg | V-16       | J  | HT     |
| TP05-02 | A9A0295-09    | EPA 8260C | Benzene              | < 0.0119 | mg/kg | V-16       | UJ | HT     |
| TP05-02 | A9A0295-09    | EPA 8260C | Toluene              | < 0.0593 | mg/kg | V-16       | UJ | HT     |
| TP05-02 | A9A0295-09    | EPA 8260C | Ethylbenzene         | < 0.0297 | mg/kg | V-16       | UJ | HT     |
| TP05-02 | A9A0295-09    | EPA 8260C | Xylenes, total       | < 0.0890 | mg/kg | V-16       | UJ | HT     |
| TP06-02 | A9A0295-10    | EPA 8260C | Benzene              | < 0.0129 | mg/kg | V-16       | UJ | HT     |
| TP06-02 | A9A0295-10    | EPA 8260C | Toluene              | < 0.0643 | mg/kg | V-16       | UJ | HT     |
| TP06-02 | A9A0295-10    | EPA 8260C | Ethylbenzene         | < 0.0321 | mg/kg | V-16       | UJ | HT     |
| TP06-02 | A9A0295-10    | EPA 8260C | Xylenes, total       | < 0.0964 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01    | EPA 8260C | Acetone              | < 5.63   | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01    | EPA 8260C | Acrylonitrile        | < 2.25   | mg/kg | V-16, R-02 | UJ | HT, Mi |
| TP01-02 | A9A0295-01    | EPA 8260C | Benzene              | 0.328    | mg/kg | V-16       | J  | HT     |
| TP01-02 | A9A0295-01    | EPA 8260C | Bromobenzene         | < 0.141  | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01    | EPA 8260C | Bromochloromethane   | < 0.282  | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01    | EPA 8260C | Bromodichloromethane | < 0.282  | mg/kg | V-16       | UJ | HT     |

|         |            |           |                             |         |       |             |    |             |
|---------|------------|-----------|-----------------------------|---------|-------|-------------|----|-------------|
| TP01-02 | A9A0295-01 | EPA 8260C | Bromoform                   | < 0.563 | mg/kg | V-16, Q-54g | UJ | HT, Cc, LCS |
| TP01-02 | A9A0295-01 | EPA 8260C | Bromomethane                | < 2.82  | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 2-Butanone (MEK)            | < 9.29  | mg/kg | V-16, R-02  | UJ | HT, Mi      |
| TP01-02 | A9A0295-01 | EPA 8260C | n-Butylbenzene              | 5.71    | mg/kg | V-16, M-02  | J  | HT, Mi      |
| TP01-02 | A9A0295-01 | EPA 8260C | sec-Butylbenzene            | 2.33    | mg/kg | V-16        | J  | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | tert-Butylbenzene           | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Carbon disulfide            | < 2.82  | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Carbon tetrachloride        | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Chlorobenzene               | < 0.141 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Chloroethane                | < 2.82  | mg/kg | V-16, Q-54h | UJ | HT, Cc, LCS |
| TP01-02 | A9A0295-01 | EPA 8260C | Chloroform                  | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Chloromethane               | < 1.41  | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 2-Chlorotoluene             | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 4-Chlorotoluene             | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Dibromochloromethane        | < 0.563 | mg/kg | V-16        | UJ | HT, LCS     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,2-Dibromo-3-chloropropane | < 1.41  | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,2-Dibromoethane (EDB)     | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Dibromomethane              | < 0.282 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,2-Dichlorobenzene         | < 0.141 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,3-Dichlorobenzene         | < 0.141 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,4-Dichlorobenzene         | < 0.141 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | Dichlorodifluoromethane     | < 0.563 | mg/kg | V-16, Q-54j | UJ | HT, Cc, LCS |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,1-Dichloroethane          | < 0.141 | mg/kg | V-16        | UJ | HT          |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,2-Dichloroethane (EDC)    | < 0.141 | mg/kg | V-16        | UJ | HT          |

|         |            |           |                                |         |       |            |    |        |
|---------|------------|-----------|--------------------------------|---------|-------|------------|----|--------|
| TP01-02 | A9A0295-01 | EPA 8260C | 1,1-Dichloroethene             | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | cis-1,2-Dichloroethene         | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | trans-1,2-Dichloroethene       | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,2-Dichloropropane            | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,3-Dichloropropane            | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 2,2-Dichloropropane            | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,1-Dichloropropene            | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | cis-1,3-Dichloropropene        | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | trans-1,3-Dichloropropene      | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Ethylbenzene                   | 40.5    | mg/kg | V-16       | J  | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Hexachlorobutadiene            | < 0.563 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 2-Hexanone                     | < 2.82  | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Isopropylbenzene               | 4.67    | mg/kg | V-16       | J  | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 4-Isopropyltoluene             | 1.68    | mg/kg | V-16, M-02 | J  | HT, Mi |
| TP01-02 | A9A0295-01 | EPA 8260C | Methylene chloride             | < 1.41  | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 4-Methyl-2-pentanone (MiBK)    | < 2.82  | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Methyl tert-butyl ether (MTBE) | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Naphthalene                    | 22.8    | mg/kg | V-16       | J  | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | n-Propylbenzene                | 22.4    | mg/kg | V-16       | J  | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Styrene                        | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,1,1,2-Tetrachloroethane      | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | 1,1,2,2-Tetrachloroethane      | < 0.282 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Tetrachloroethene (PCE)        | < 0.141 | mg/kg | V-16       | UJ | HT     |
| TP01-02 | A9A0295-01 | EPA 8260C | Toluene                        | 0.408   | mg/kg | V-16       | J  | HT     |

|         |               |           |                               |         |       |             |     |             |
|---------|---------------|-----------|-------------------------------|---------|-------|-------------|-----|-------------|
| TP01-02 | A9A0295-01    | EPA 8260C | 1,2,3-Trichlorobenzene        | < 1.41  | mg/kg | V-16        | UJ  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | 1,2,4-Trichlorobenzene        | < 1.41  | mg/kg | V-16        | UJ  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | 1,1,1-Trichloroethane         | < 0.141 | mg/kg | V-16        | UJ  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | 1,1,2-Trichloroethane         | < 0.141 | mg/kg | V-16        | UJ  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Trichloroethene (TCE)         | < 0.141 | mg/kg | V-16        | UJ  | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Trichlorofluoromethane        | < 0.563 | mg/kg | V-16, Q-54i | UJ  | HT, Cc, LCS |
| TP01-02 | A9A0295-01    | EPA 8260C | 1,2,3-Trichloropropane        | < 1.41  | mg/kg | V-16, R-02  | UJ  | HT, Mi      |
| TP01-02 | A9A0295-01    | EPA 8260C | Vinyl chloride                | < 0.141 | mg/kg | V-16        | UJ  | HT, LCS     |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | 1,2,4-Trimethylbenzene        | 193     | mg/kg | V-16        | J   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | 1,3,5-Trimethylbenzene        | 66.5    | mg/kg | V-16        | J   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | m,p-Xylene                    | 226     | mg/kg | V-16        | J   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | o-Xylene                      | 116     | mg/kg | V-16        | J   | HT          |
| TP01-02 | A9A0295-01    | EPA 8260C | Ethanol                       | < 282   | mg/kg | H-01, V-16  | DNR | Other       |
| TP01-02 | A9A0295-01    | EPA 8260C | tert-Butanol (TBA)            | < 282   | mg/kg | H-01, V-16  | DNR | Other       |
| TP01-02 | A9A0295-01    | EPA 8260C | Diisopropyl ether (DIPE)      | < 1.41  | mg/kg | H-01, V-16  | DNR | Other       |
| TP01-02 | A9A0295-01    | EPA 8260C | Ethyl-tert-butyl ether (ETBE) | < 1.41  | mg/kg | H-01, V-16  | DNR | Other       |
| TP01-02 | A9A0295-01    | EPA 8260C | tert-Amyl methyl ether (TAME) | < 1.41  | mg/kg | H-01, V-16  | DNR | Other       |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | Ethanol                       | < 28.2  | mg/kg | H-01, V-16  | R   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | tert-Butanol (TBA)            | < 28.2  | mg/kg | H-01, V-16  | R   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | Diisopropyl ether (DIPE)      | < 0.141 | mg/kg | H-01, V-16  | R   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | Ethyl-tert-butyl ether (ETBE) | < 0.141 | mg/kg | H-01, V-16  | R   | HT          |
| TP01-02 | A9A0295-01RE1 | EPA 8260C | tert-Amyl methyl ether (TAME) | < 0.141 | mg/kg | H-01, V-16  | R   | HT          |