DRAFT Additional Interim Action Addendum #2 Report

Coleman Oil Company Facility 3 East Chehalis Street Wenatchee, Washington

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

December 11, 2018

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

HydroCon Project No: 2017-074

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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
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
ROW	right of way
SAP	Sampling and Analysis Plan



1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this Additional Interim Action (AIA) Addendum #2 report on behalf of Coleman Oil Company (Coleman Oil) to install additional borings and wells to further evaluate remedial options.

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 AIA Addendum #2 Work Plan (July 26, 2018) to install additional monitoring wells to further evaluate remedial options in the area of the sheen discharge area on the Columbia River. Supporting documentation is found in the attachments to the Supplemental Remedial Investigation (SRI) Work Plan (HydroCon 2018a) and includes Standard Operating Procedures (SOPs) and field forms that will be used during the investigation.



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 currently operated by Coleman Oil has been in operation as a bulk fuel facility since 1921. Coleman Services IV, LLC purchased the property in January 2007.

A petroleum sheen was discovered on the west side of the Columbia River approximately 300 feet north of the Site on March 17, 2017. Subsequent pipeline tightness testing revealed that two underground pipelines could not hold pressure and review of Coleman Oil inventory records indicated that the release was most likely from the R99 renewable diesel 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.
- A remedial excavation was performed on the Coleman Oil facility near the point of 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 29 monitoring and recovery wells (MW-1 through MW23, MW01S, MW03S, BH-1 through BH-3, and RW-1) had been installed at the site. Product recovery via skimming using a peristaltic pump and new tubing and/or passive recovery using hydrophobic socks has taken place. An additional nine new monitoring wells (MW24 through MW32) were installed during the work described in this report.
- Product recovery pumps were installed in three wells with persistent measurable LNAPL (MW-9, MW-10, and BH-1). These three well were 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 recovered groundwater and product from these wells are routed through three oil/water separators, into storage tanks and then through filtration and GAC into storage tanks. The treated water is analyzed prior to discharge in batches under an agreement between Coleman Oil and City of Wenatchee into the city's sanitary sewer system.

As of early June 2018, a total of 404.30 gallons of R99 diesel had been recovered (HydroCon 2018b).

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 previous excavation and has been backfilled with construction and other debris.

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

2.5 Hydraulic Testing

Hydraulic testing of the aquifer beneath the site has been conducted on two occasions and is briefly summarized here.



Six wells were subjected to step-drawdown testing in February 2018 (HydroCon 2018c). Three wells (RW-1, BH-2, and BH-3) could not sustain the initial step pumping rate of 0.25 gallons per minute (gpm) and dewatered after pumping approximately the amount of water stored in the well screen and surrounding sand pack. Wells BH-1, MW-9, and MW-10 sustained step flow rates of between 2.0 and 2.5 gpm before water levels reached target elevations. Drawdown was not observed in any nearby monitoring wells during the six step-drawdown tests. Analysis of the drawdown data indicated that at a pumping rate of 1.75 gpm the three wells would produce approximately 3.5 feet of drawdown in the aquifer adjacent to the pumping well and the cone of influence would extend out to approximately 100 feet as defined by a drawdown of 0.1 feet.

Slug testing or falling head testing was performed on May 21, 2018 to observe relative flow rates of select wells on the Coleman Oil property in an attempt to better understand contaminant flow across the Site. Slug testing was performed at MW-7, MW-8, MW-9, MW-11, MW13, MW14, MW16, MW17, MW19, MW20, MW22, and MW23.

A falling-head test was conducted by rapidly raising the water level with a 3-inch diameter by 16-inch long metal slug in the control well and subsequently measuring the falling water level. The results of the slug tests show that MW-6, MW-11, MW17 and MW22 had high flow rates; MW-8, MW14, MW16, MW20 and MW23 had medium flow rates; and MW-7, MW13, MW19, and MW21 had low flow rates. The relative flow rates and volume of product recovery through early June 2018 are shown on Figure 3. The figure also includes relative flow rates for the new wells as discussed in Section 6. As can be seen, relative flow rates are highly variable across the site; however, there is a good correlation between wells with high flow rates and high product recovery.

Based on the testing described above, pumps were installed at monitoring wells MW-9, MW-10, and BH-1. With the exception of minor equipment problems, the wells have been in operation since May 5, 2018, however, they only operate when water is at the level of the pump. When the pumps are activated, they pump at a rate of approximately 2 gpm as determined by the hydraulic testing. As such, the pumps achieve the goal of maintaining water levels at target depths and thereby reducing migration to the river.

2.6 Contaminant Distribution

The results of the SRI [HydroCon 2018b] provided significant clarification to the understanding of contaminant distribution at the Site. Diesel and gasoline range hydrocarbons exceeding MTCA Method A cleanup levels are present in subsurface soil, groundwater, shoreline soils, and shoreline sediments. Diesel in groundwater extends from the release area to the north-northeast to the area between MW21 and MW22, a distance of 550 feet. Soil is impacted by diesel transported by groundwater. Shoreline soil and shoreline sediments are impacted by groundwater discharging to the Columbia River approximately 400 feet north of the release area. Gasoline range hydrocarbons extend the area of impact south of the release area (MW13 and MW01S) and are likely due to historic releases not associated with the R99 Renewable diesel release. Gasoline range hydrocarbons are also present



in soil and groundwater downgradient of the R99 Renewable diesel release area. Figure 4 shows the current extent of contamination.



3.0 INTERIM ACTION

This section describes the coordination and implementation of the fieldwork performed during the AIA Addendum #2 Investigation. Work was performed in general accordance to the approved AIA Addendum #2 Work Plan (HydroCon 2018c) and SRI SAP and QAPP (HydroCon 2018a).

3.1 Purpose and Scope

Results of the SRI have revealed that LNAPL migrates downgradient along the bedrock (Chumstick Formation) that underlies the site. The Chumstick Formation is locally fractured and channelized. LNAPL migrates through the fractures and channels and locally discharges into the river. The intent of this work is to find some of these preferential pathways by the drilling process and install wells that can serve as recovery points to intercept and remove as much of the remaining LNAPL as possible to stop or greatly diminish the discharge into the Columbia River.

A feasibility study may be prepared at a later time toward development of a more permanent solution. However, if successful, this action has the potential to serve as the preferred remedial solution for the remediation of R99 Biodiesel.

3.2 Objectives and Approach

The objective of this AIA was to further evaluate hydraulic conditions in the sheen discharge area to assist in evaluating remedial options and to provide additional product recovery points in the known sheen discharge area for the reduction of seepage into the river.

Eight new four-inch diameter wells (MW24 through MW31) were installed between FB-7 and MW21 to create a line of 14 wells near the Columbia River at intervals of approximately 50 feet. One new four-inch diameter well (MW32) was installed in between MW16 and MW17 to further assess contaminant migration pathway under Chehalis Street and provide a line of wells to recover product. Two existing wells (MW-9 and MW-10) were deepened, constructed with four-inch casing and renamed MW09R and MW10R, respectively. Following well installation and development, hydraulic testing was conducted to determine flow rates to assess which wells could be used to maintain water levels at summertime levels in these areas of the Site. The results of the hydraulic testing were provided to the engineering staff to prepare the expanded remediation system design.

3.3 Permits

The City of Wenatchee has jurisdiction of the public right-of-way along Chehalis Street and South Worthen Street. A right-of-way excavation permit RW-EXCV-18-017 and a revocable long term temporary use of right-of-way RW-TEMP-18-01 were obtained for activities conducted in the City of Wenatchee right-of-way. A traffic control plan was developed and executed for drilling the right-of-way.



3.4 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.

3.5 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 18324780 was refreshed with ticket number 18104874.



4.0 FIELDWORK

4.1 Soil Borings

From August 6th to August 17th, 2018, a total of 9 new monitoring wells (MW24 through MW32) were installed. Two existing wells (MW-9 and MW-10) were deepened and completed as 4-inch diameter monitoring wells and were renamed MW09R and MW10R, respectively. All boreholes were advanced to a depth equal to the average elevation of the Columbia River (approximately 621 ft amsl) plus 10 feet (depths of 35 to 40 feet). Locations are shown on Figure 2. Borehole logs are included in Appendix A.

Soil borings and groundwater monitoring wells were advanced using the Sonic drilling method described in further detail in the Sampling and Analysis Plan (SAP) attached to the SRI Work Plan (HydroCon 2018a). HydroCon has utilized the sonic drilling method for every boring drilled under our supervision (MW12 through MW32, MW01S, MW03S, MW09R, and MW10R). This method was selected due to the high quality of soil cores produced and the excellent sample recovery compared to the air rotary method used by the previous consulting firm.

Sonic 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/monitoring well. Upon completion, a monitoring well was installed.

Each 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. The PID was calibrated before use at the Site to a test gas standard consisting of 100 parts per million (ppm) isobutylene. 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. 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 logs detailing the lithology, field screening results, and sample depths were prepared for each boring. Selected soil samples (up to 5 samples per boring) were submitted to the laboratory based on sampling objectives (i.e., depth and soil type) and field screening results.

The selected soil samples were removed from the plastic sleeve 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 Laboratory in Tigard, Oregon.



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

4.2 Well Deepening

Existing monitoring wells MW-9 and MW-10 were overdrilled using the sonic drilling method. Monitoring well BH-1 could not be overdrilled due to overhead constraints (trees) and safe working space issues. Monitoring wells MW-9 and MW-10 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 total depth of the existing well. 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 remaining well materials from the borehole. When 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. The wells were completed as 4-inch diameter monitoring wells using the same well construction methodology as the newly installed wells. Well construction details are provided in Table 1 and on the attached boring logs.

4.3 Soil Sampling

HydroCon submitted a minimum of three soil samples per boring to the laboratory based on field screening results, lithologic composition, and depth. One sample was collected from the deepened MW09R and MW10R. The selected soil samples were removed from the soil cores produced by the sonic drilling method using a new pair of disposable gloves and placed directly into labeled laboratory prepared jars and sealed with Teflon-lined lids (VOAs utilizing 5035A field preservation for GRPH and volatiles) and immediately placed in an ice filled cooler along with chain-of-custody documentation for shipment to APEX laboratory in Tigard, Oregon.

Soil samples were analyzed by one or 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

4.4 Monitoring Well Installation

Groundwater monitoring wells were installed in each of the new borings. Two wells (MW-9 and MW-10) were deepened, constructed with larger diameter well material and renamed MW09R and MW10R, respectively. The following sections describe methods for installation, development, surveying, and groundwater sampling.



4.4.1 Well Installation

Each boring was completed as a 4-inch diameter PVC monitoring well. The wells were constructed with variable lengths (10 to 25 feet) of 0.010-inch slotted PVC well screen and a bottom slip cap. Stainless steel centralizers were installed on the well string (one near the sump section, one immediately above the well screen, and then additional centralizers in approximate 10 foot intervals) so that an even filter pack and seal could be placed around the well. Clean 10-20 graded silica sand was used as a filter pack in the annular space. The wells were surged by the drilling contractor during sand pack installation using a clean surge block. The filter pack was placed at the desired depth interval and then the well was surged. Once no more settlement in the sand pack was observed the drilling contractors placed additional sand in the annulus to the desired depth. Hydrated bentonite was used as a seal. The bentonite was placed from the top of the sand pack to approximately 1 foot below the surface. A traffic grade flush monument was cemented into placed on top of each well. Monitoring well construction details are documented in the boring logs and summarized on Table 1.

4.4.2 Well Development

The monitoring wells were developed by surging and pumping techniques. A clean stainless steel bailer attached to a new length of poly rope was used to surge and bail turbid water from each well. The wells were then pumped using new LDPE tubing attached to a clean submersible impeller pump. This process was repeated until no further improvement in water clarity was observed. A minimum of ten casing volumes were removed from each well. Well development details are documented on *Well Development Forms* which are included in Appendix B.

4.5 Surveying

Elandsen Inc. performed the surveying at the site. HydroCon requested that the elevation of the top of the PVC well casing at the scribed reference mark (north side of well) along with the ground surface be surveyed at each well. The vertical and horizontal coordinates of the wells 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 Datum, 1988 (NAVD88).

The top of the casing elevation of each monitoring well was surveyed and used to calculate the groundwater surface elevation at each respective well. The survey data is included on the boring logs and Table 1.

4.6 Management of Investigation Derived Waste



Soil from drill cuttings and water generated during drilling, decontamination, well development and groundwater sampling were placed in separate labeled 55-gallon drums. The drums were staged at the Site pending waste profiling. Water generated from well development and groundwater sampling was temporarily contained in labeled drums and transported to the water treatment area. Water generated by the drilling contractor (from pressure washing/decontamination) was temporarily contained in their utility trailer and was emptied on a daily basis during the drilling program. 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 8 drums of soil that were generated during drilling activities were disposed of at the Wenatchee Waste Management regional facility under the existing Coleman oil petroleum contaminated soil waste profile.



5.0 **RESULTS OF INVESTIGATION**

5.1 Subsurface Conditions

The portion of the subject Site and adjacent roadways where drilling was completed are paved with asphalt that is approximately 3 to 5 inches thick.

The soil beneath the surface includes alluvial deposits consisting primarily of sand, silt, sandy gravel, and gravelly sand. 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 22 feet bgs at MW31. Generally, the alluvial deposits increase in thickness in the north to northeasterly direction.

The Chumstick Formation is present beneath the alluvial deposits at depths ranging from 14 to 22 feet. The formation consists of sandstone, siltstone, and mudstone. Shaley sandstone and shale with thin interbedding of biotite and organic matter was observed in borings and appears to be consistent with the Nahahum Canyon Unit. The top of the Chumstick Formation encountered at the Site was typically a 1 to 8 foot thick layer of mudstone underlain by 1 to 6 foot thick layers or sandstone, siltstone and mudstone. The upper portions of the Chumstick has been eroded and weathered. The mudstone is commonly friable and the sandstone is soft and weakly cemented in the upper portion of the Formation. The underlying mudstone and sandstone appear more massive with the sandstone becoming very dense and strongly cemented with depth (exhibiting a cored concrete appearance in the sample cores). This material appears to be acting as an aquitard.

Petroleum contamination was observed using field screening techniques in the borings at similar depths as the soils observed in borings drilled along Worthen Street. Monitoring wells MW24, MW25, MW26, MW27, MW29, MW30, and MW31 all had elevated PID readings at depths ranging from 19 to 32 feet bgs. Light nonaqueous phase liquid (LNAPL) was observed in the soil at 24 feet bgs at MW29. Updated cross sections were prepared to include data obtained from the new borings. The cross sections are included on Figures 6-9. The ground surface is relatively flat in the east-west direction while the top of the Chumstick Formation slopes to the east between MW16 and the Columbia River (280 feet) with a drop in elevation of 30 feet. The ground slopes to the north with a 19 foot drop in elevation between MW12 and MW22 (800 feet to the north). The drop in elevation of the Chumstick Formation is 28 feet between these wells. Detailed description of the subsurface soil is included in the attached boring logs (Appendix A).

5.2 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.



Boring ID	Hydrocarbon Odor	PID Readings >2 ppmv @ depth (feet)			
MW24	Strong odor @ 22'	94 @ 22' 9.9 @ 23' 2.1@ 28'			
MW25	Strong odor @ 22'	136 @ 22' 10 @ 25'			
MW26	Strong odor @ 19'-25'	125 @ 19' 13.3 @ 23' 77.3 @ 24'			
MW27	Strong odor @ 19'	3.5 -3.7 @ 6'-10' 2.6-265.7@16'-19'			
MW28	-	-			
MW29	Sheen and free product @ 24'	2.1- 42.8 @ 24'-27' 9.2-13 @30'-34'			
MW30	Strong odor @ 22-37'	102.5-265.9 @ 20'-32'			
MW31	Strong odor @ 25-28'	54-265 @26-28' 3.8 @ 30'			
MW32	Strong odor @ 14'	2.1-3.1 @ 11-13' 481.1 @ 14' 3.7 @ 15'			

Field Screening Results

5.3 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 5. The laboratory report and chain-of-custody documentation is included in Appendix C.

A summary of the soil analytical results in each boring is provided below.

MW09R – HydroCon collected a soil sample from the bottom of the borehole. The sample collected at 35' bgs had low concentrations of GRPH, DRPH, ORPH, ethylbenzene, and total xylenes. None of the detected COCs was above their respective MTCA Method A cleanup level.

MW10R – HydroCon collected a soil sample from the bottom of the borehole. The only COC detected in the sample was DRPH at a concentration that is well below the MTCA Method A cleanup level.



MW24 – Four samples were submitted for analysis from the boring at depths of 15, 22, 28, and 35 feet bgs. GRPH (up to 179 mg/kg) was detected in the samples collected from 22, 28, and 35 feet bgs. DRPH (73 mg/kg) was detected in the 35 feet bgs sample. Total xylenes (up to 0.117 mg/kg) were detected in the samples collected at 22 and 35 feet bgs. The concentration of GRPH in the samples collected at 22 and 28 feet bgs exceed the MTCA Method A cleanup level.

MW25 – Three samples were submitted for analysis from the boring at depths of 19, 22, and 35 feet bgs. GRPH (up to 7.98 mg/kg) and DRPH (up to 239 mg/kg) were detected in the samples collected from 22 and 35 feet bgs. ORPH (323 mg/kg) was detected in the sample collected from 35 feet bgs sample. None of the detected COCs are above their respective MTCA Method A cleanup levels.

MW26 – Four samples were submitted for analysis from the boring at depths of 15, 19, 29, and 33 feet bgs. GRPH (up to 33.4 mg/kg) was detected in the samples collected from 19 and 29 feet bgs. DRPH (up to 228 mg/kg) was detected in the 19, 29, 33 feet bgs sample. ORPH (288 mg/kg) was detected in the sample collected at 33 feet bgs. The concentration of GRPH at 29 feet bgs exceeds the MTCA Method A cleanup level.

MW27 – Three samples were submitted for analysis from the boring at depths of 15, 19, and 39 feet bgs. GRPH was detected at a concentration of 126 mg/kg in the sample collected at 19 feet bgs. DRPH (up to 263 mg/kg) was detected in samples collected at 19 and 39 feet bgs. ORPH (65.9 mg/kg) was detected in the sample collected at 39 feet bgs. Ethylbenzene (0.0992 mg/kg) was detected in the sample collected from 19 feet bgs. Total xylenes (up to 0.631 mg/kg) were detected in the samples collected from 19 and 39 feet bgs. The concentration of GRPH at 19 feet bgs exceeds the MTCA Method A cleanup level.

MW28 – Three samples were submitted for analysis from the boring at depths of 19, 25, and 39 feet bgs. GRPH (28.2 mg/kg) and DRPH (27.8 mg/kg) was detected in the sample collected from 39 feet bgs. Ethylbenzene (up to 0.0638 mg/kg) was detected in the samples collected from 25 and 39 feet bgs. Total xylenes (up to 0.317 mg/kg) were detected in the samples collected from each sample. None of the COCs exceeded their respective MTCA Method A cleanup level.

MW29 – Four samples were submitted for analysis from the boring at depths of 15, 24, 34, and 40 feet bgs. GRPH (33.6 mg/kg) and DRPH (81.2 mg/kg) were detected in the 24 feet bgs sample. The concentration of GRPH exceeds the MTCA Method A cleanup level in the sample collected at 24 feet bgs.

MW30 – Five samples were submitted for analysis from the boring at depths of 15, 20, 28, 32, and 40 feet bgs. There was no detection of any COC in the sample collected at 15 feet bgs. GRPH (up to 618 mg/kg) was detected in the samples collected from 20, 28, and 32 feet bgs. DRPH (up to 1,900 mg/kg) was detected in the samples collected from 20, 28, 32, and 40 feet bgs. ORPH (250 mg/kg) was detected in the sample collected at 40 feet bgs. Ethylbenzene (0.0473 mg/kg) was detected in the sample collected at 40 feet bgs. Total xylenes (up to 0.123 mg/kg) were detected in the samples



collected at 28 and 40 feet bgs. The concentration of GRPH at 20, 28, and 32 feet exceed the MTCA Method A cleanup level.

MW31 – Three samples were submitted for analysis from the boring at depths of 19, 28, and 38 feet bgs. GRPH (125 mg/kg) and DRPH (564 mg/kg) were detected in the sample collected at 28 feet bgs. The concentration of GRPH at 28 feet exceeds the MTCA Method A cleanup level.

MW32 - Three samples were submitted for analysis from the boring at depths of 10, 14, and 28 feet bgs. GRPH (1,930 mg/kg) and DRPH (3,400 mg/kg) were detected in the sample collected at 14 feet bgs. The concentration of GRPH and DRPH at 14 feet exceeds their respective MTCA Method A cleanup levels.

In summary, eight wells were installed on the east side Worthen Street near the seep area north of Chehalis Street (MWW24 through MW31). While DRPH was detected in some samples from these wells, none exceeded the MTCA Method A CUL. All wells but MW25 and MW28 had at least one sample that had CUL exceedances for GRPH. MW09R and MW10R did not have CUL exceedances at the 35 foot depth. MW32, located on Chehalis Street, had CUL exceedances for both DRPH and GRPH. Figure 4 shows the current extent of DRPH and GRPH in soil and groundwater at the Site. The new wells did not affect the understanding of the extent of contamination underlying the Site.

Figure 3 includes a refinement of the top of the Chumstick Formation based on the new wells. The stratigraphy of the new wells did not significantly change the understanding of the top of the Chumstick Formation.

5.4 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 D. 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. Appendix D identifies all data qualifies and the reasons for qualification. Aside from the data quality issues identified above and the Appendix, the data quality review identified no concerns with respect of the quality of usability of the data presented herein.



6.0 AQUIFER TESTING

Aquifer testing was performed to select wells for inclusion in the expansion of the site remediation system and to develop a better understanding of the aquifer characteristics. Aquifer testing included slug testing and step draw down testing in selected wells.

6.1 Slug Testing

Slug testing was performed on August 20, 2018 to observe relative flow rates of the newly installed wells located on and adjacent to the Coleman Oil property in an attempt to better understand contaminate flow across the Site. Slug testing included MW24 through MW32, MW09R and MW10R.

A *slug test* is a controlled field experiment to estimate the hydraulic properties of aquifers and aquitards, in which the water level in a control well is caused to change suddenly (rise or fall) and the subsequent water-level response (displacement or change from static) is measured through time in the control well and one or more surrounding observation wells.

The slug used in the test was 3-inches in diameter and 12-inches long and constructed of galvanized steel. Prior to lowering the slug into the well to completely submerge it, the initial depth to water was recorded using a clean electronic water level meter. Immediately following placement of the slug, the depth to water was measured to record the displacement created by the slug. Water levels were then collected at one, two, five, and ten minutes after the slug was placed in the well to measure the falling-head response in the well. After 10 minutes the slug was removed, decontaminated, and the procedure was repeated in another well. Flow rates of high (no displacement recorded), medium (medium displacement and medium falling-head response) to low (large displacement and slow falling-head response) were assigned to each well relative to each other. The results of the slug tests are included in Table 3.

The results of the slug tests indicate that:

- MW09R, MW10R, MW24, and MW32 have high flow rates
- MW28 has a medium flow rate
- MW25, MW26, MW27, MW29, MW30 and MW31 have low flow rates

The final row in Table 3 shows the rate of recharge observed during well development. The values are calculated using the time it took each well to recharge 1 foot and then converting the results to gallons per minute (gpm). Two wells (MW29 and MW31) did not recharge 1 foot within 120 minutes. Therefore, an estimated value of <0.005 gpm minutes was assigned to each well. The rate of slug test recharge and well development recharge are generally in good agreement, except that the well development recharge is relatively higher that slug test recharge for MW10R and MW24.



As can be seen in Figure 3, most of the wells on Worthen Street have relatively low flow rates, except MW24, MW10R, and BH-1 which show relatively high flow rates. Wells along Chehalis Street and on the Property just south of Chehalis Street have relatively high flow rates. As shown on Figure 5, DRPH was not detected above cleanup levels in the new wells drilled along Worthen Street and DRPH was detected above cleanup levels in MW32 on Chehalis Street. These results strengthen the conceptual site model of preferential flow paths from the site to the river near MW10R and BH-1.

6.2 Step Drawdown Testing

Step drawdown tests were performed on each of the new wells. Water level monitoring was performed in the well being pumped as well as selected wells located nearby.

The test was conducted using a GeoTech SSGeoSub 2-inch submersible pump (1.75-inch outside diameter) with variable speed drive and up to eight INW PT2X 30 psi pressure transducers with internal data loggers from Instrumentation Northwest, Inc. of Kirkland, Washington. The transducers were calibrated prior to being taken to the field. In addition to the automatic data logging, measurements of water levels in the wells during and after each test were collected using a clean electronic interface probe and water level meter, respectively (described in greater detail in the SRI SAP SOP10).

Prior to conducting the tests, pumping of the three wells (MW-9, MW-10, and BH-1) was shut down a minimum of 24 hours preceding the tests. Clean electronic water level transducers were placed in selected wells near the testing well. Static water level monitoring was conducted in the wells for a minimum of 8 hours before the tests were conducted.

The pumping well was initially pumped at a rate of 0.25 gpm until static drawdown conditions were met for at least 15 minutes or when the well was pumped dry. The test was then continued by doubling the pumping rate until static drawdown conditions were met for at least 15 minutes or the well was pumped dry. A check valve was installed in the riser pipe and closed during the recovery phase to prevent backflow into the testing well. The test for each well was considered to be complete when water levels remained at a constant level within one-half of the available drawdown (the depth one-half the distance between the static level and the bottom of the well).

Step tests were attempted in monitoring wells MW20, MW24, MW28, and MW32 at pumping rates of 0.25, 0.5, 1.0, and 2.0 gpm. Plots of the drawdown tests are provided in Appendix E. Observations and results are summarized below.

MW20 - This well was determined to have a medium relative flow rate as determined by slug testing (Figure 3). It was selected for testing due to its proximity to the seeps and wells producing product (i.e., BH-1). The test began with a pumping rate of 0.5 gpm. After 5 minutes, the rate was lowered to 0.25 gpm because 0.5 gpm was unsustainable. The test was ended after another 10 minutes when the water level reached the pump intake level. No changes in water levels were observed in nearby wells MW27, MW28 and BH-1. The well recharged 1 foot in 18 minutes. This test was not plotted.



MW24 - This well was determined to have a high relative flow rate as determined by slug testing (Figure 3). It was selected due to high flow rate and proximity to MW-10. The test began with a flow rate of 0.5 gpm for 40 minutes, then increased to 1 gpm for 102 minutes. The pump ran out of gas and the test restarted after 10 minutes at 1 gpm for 40 minutes. The flow rate was increased to 2 gpm for 10 minutes when the water level reached the intake. Water levels decreased approximately 2 feet during the 1 gpm step and 3 feet during the 2 gpm step. The water level in MW-10 decreased approximately 1 foot and the water level in MW21 increased approximately 0.2 feet. No change was observed in MW25. Product was observed in MW24 following the test.

MW28 - This well was determined to have a medium relative flow rate as determined by slug testing (Figure 3). The well is located near the seeps between RW-1 and BH-1. The well was pumped at 0.25 gpm for 47 minutes when the water level reached the intake level. The well recharged 1 foot in 6 minutes. Falling head was observed in MW27 and BH-1 of 0.03 and 0.02 feet respectively. No change in water level was observed in MW20.

MW32 - This well was determined to have a high relative flow rate as determined by slug testing (Figure 3). The well is located on Chehalis Street between MW16 and MW17. The well was pumped at 0.5 gpm for 70 minutes when the water level reached the intake. The well recharged 1 foot in 5 minutes. No water level changes were observed in MW16 and MW17.

In summary, none of the tested wells were able to sustain a pumping of 0.5 gpm. There appeared to be little or no hydraulic connection between the pumped wells and nearby observation wells with the exception MW24 and MW-10.



7.0 REMEDIATION SYSTEM DESIGN AND INSTALLATION

Results of the aquifer testing, boring logs, and the soil analytical data were submitted to our engineer for design of the expansion of the remediation system currently in operation at the Site. HydroCon's primary design objective for upgrading the interim remediation at the Coleman Oil facility was to expand the product recovery capability of the system.

The original system extracted oil/groundwater from three wells. The new design package included the expansion of the system to a total of nine wells. This provides substantial additional operational flexibility for the project manager and those responsible for operating and maintaining the system to focus product recovery efforts where future site monitoring indicates that is necessary. The enhanced recovery system was designed so it can operate within the capacity of the existing mechanical equipment (air compressor, and piping) so that no additional major capital equipment is needed to operate the system, with the exception of adding well pumps to the wells selected for additional recovery.

The interim remediation system design is included in Appendix F as a set of drawings. Major features of the design include the initial remediation system layout, the water treatment system at Tank Farm A, the expanded remediation system layout, details of vaults and utility trenches, and equipment and instrumentation.

7.1 Expansion of Remediation System at the Site

The remediation system was expanded on October 22 through October 26, 2018. The interim remediation system had been designed to recover free product from areas that have persistent NAPL measured in the wells, to control water levels, and to mitigate the presence of sheen (i.e., LNAPL) from discharging into the Columbia River. The remediation system was expanded to include six more recovery points (MW17, MW24, MW28, MW29, MW30, and MW32). The remediation system consists of three separate zones that pump into an associated OWS. These zones include the MW09R zone, the MW10R zone, and the BH-1 zone.

The MW09R zone is located along the north side of Chehalis Street and includes three wells (MW09R, MW17 and MW32). Currently only MW09R is being pumped. The other two wells will be brought on line as needed if product is observed.

The MW10R zone includes MW10R, MW24, and MW28. This zone is located north of BH-1 along the east side of Worthen Street. All of these wells are operational, using dedicated AP-3 top loading pneumatic total fluids pumps. Product has been measured in MW10R and MW24. The pumps in MW10R and MW24 are set with the intake set at 27 feet bgs. The pump intake in MW28 is set at 33 feet bgs.



The BH-1 zone includes monitoring wells MW29, MW30, and BH-1 and is located in the eastern side of Worthen Street beginning at BH-1 south to MW30. Product has been observed in BH-1 and petroleum sheen was observed in the soil of MW29. All three of these wells are operational using dedicated AP-3 top loading pneumatic pumps. The pumps in MW29 and MW30 are set with the intake set at 34 feet bgs and the pump intake in BH-1 is set at 27 feet bgs.

The current interim remediation system has been designed to recover free product from areas that have persistent NAPL measured in the wells and control water levels to mitigate the presence of sheen on the Columbia River as a result of LNAPL discharging to the river.



8.0 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.



9.0 **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, March 16.

FIGURES



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A' Chehalis St. NORTH MW-8 660' · MW19 MW20 MW26 MW-10R MW25 MW24 ML 650' -MW21 SP **MW22** Cobbles 0.1 SP/SM SF Elevation Feet Above Mean Sea Level (MSL) SP 0.1 0.1 GW SP/SM Cobbles SP/SI NR SP/SN 640' 0.1 ML GP NR 0.0 SM GP SM 13.7 -0.1 SP/SM ML 77.8 0.1 SP 01 SP/SM 0.0 630' · 63.2 15 7 9.5 Sandstone ransmissive Zon ٥ï 99 620' 205 L _{0.0} 0.3 0.3 Sandstor Sandstor Mudston TWD=35' 0.0 TWD=35' 153 Mudstone • 0.1 TWD=35' Mudstone 610' TWD=35' TWD=35' Legend Water Level at time of Drilling ∇ 205 Well Screen Interval TWD=40 600' 🖵 Water Level (4/27/18) Water Level (8/31/18) Top of Chumstick Formation Sandstone DATE: 11-27-18 DWN: JJT CHK: RH APPROVED: RH 172 **PID Reading** 40 <u>8</u>0 Sample Location Hydro **(** SCALE IN FEET Area of Contamination as Defined by Analytical Results and PID Readings Con PRJ. MGR: CH PROJECT NO: 1" = 40' 510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086 2017-074

074_BM-112618










Table 1

Well Construction Details Coleman Oil Site Wenatchee, Washington

				Total						Length of		
				Boring	Total Well	Well	Well	Screen	Length of	Bottom	Screened	Well Casing
			Drilling	Depth	Depth	Diameter	Construction	Slot Size	Screen	Сар	Interval	Elevation
Well ID	Date Installed	Installed By	Method	(feet bgs)	(feet bgs)	(inch)	Material	(inch)	(feet)	(feet)	(feet bgs)	(feet [*])
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
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

1 of 1



Table 2

Soil and Sediment Analytical Results - Fuels and BTEX Coleman Oil Site Wenatchee, Washington

				Fuels		BTEX					
			GRPH	ОКРН	ОКРН	Benzene	Toluene	Ethylbenzene	Total Xylenes		
I 			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
WA MTCA Method A	A Cleanup Level for So	oil	30/100	2,000	2,000	0.3	7	6	9		
Benzene (Non Det	ect)		100								
Benzene (Detect)	Sample Donth		30			II					
	Sample Depth	Data									
	(feet)	Date									
	15	9/6/2019	<5.29	< 25.0	< 50.0	<0.0106	<0.0529	<0.0265	<0.0794		
N/N/24-15	22	8/6/2018	109	< 25.0	< 50.0	<0.0100	<0.0525	<0.0205	0.110		
MW24-22	28	8/6/2018	179	< 25.0	< 50.0	<0.0112	<0.0653	< 0.0326	<0.0979		
MW24-25	35	8/6/2018	19.5	73	<50.0	< 0.0114	< 0.0572	< 0.0286	0.117		
MW25-19	19	8/7/2018	<6.67	< 25.0	< 50.0	< 0.0133	< 0.0667	< 0.0334	<0.100		
MW25-22	22	8/7/2018	6.7	92.7	<50.0	< 0.0112	< 0.0562	< 0.0281	< 0.0843		
MW25-35	35	8/7/2018	7.98	239	323	< 0.0131	< 0.0653	< 0.0326	< 0.0979		
MW26-15	15	8/8/2018	<6.18	<25.0	<50.0	< 0.0124	< 0.0618	< 0.0309	<0.0928		
MW26-19	19	8/8/2018	7.69	34.1	< 50.0	< 0.0113	<0.0563	<0.0282	<0.0845		
MW26-29	29	8/8/2018	33.4	94.8	< 50.0	< 0.0125	<0.0627	< 0.0314	< 0.0941		
MW26-33	33	8/8/2018	<7.39	228	288	< 0.0148	<0.0739	< 0.0369	<0.111		
MW27-15	15	8/9/2018	<6.83	< 25.0	< 50.0	< 0.0137	<0.0683	< 0.0341	0.102		
MW27-19	19	8/9/2018	126	263	<50.0	< 0.0123	<0.0616	0.0992	0.631		
MW27-39	39	8/9/2018	<6.18	69.4	65.9	<0.0124	<0.0618	<0.0309	<0.0926		
MW28-19	19	8/10/2018	<5.88	< 25.0	< 50.0	<0.0118	<0.0588	<0.0294	0.169		
MW28-25	25	8/10/2018	<7.04	< 25.0	< 50.0	<0.0141	<0.0704	0.0528	0.317		
MW28-39	39	8/10/2018	28.2	27.8	<50.0	<0.0105	<0.0523	0.0638	0.233		
MW29-15	15	8/13/2018	< 5.66	< 25.0	< 50.0	< 0.0113	< 0.0566	< 0.0283	< 0.0849		
MW29-24	24	8/13/2018	33.6	81.2	< 50.0	< 0.0149	< 0.0745	< 0.0373	< 0.112		
MW29-34	34	8/13/2018	<5.24	< 25.0	< 50.0	< 0.0105	< 0.0524	< 0.0262	< 0.0786		
MW29-40	40	8/13/2018	< 5.15	< 25.0	< 50.0	< 0.0103	< 0.0515	< 0.0258	< 0.0773		
MW30-15	15	8/14/2018	< 5.86	< 25.0	< 50.0	< 0.0117	< 0.0586	< 0.0293	< 0.0879		
MW30-20	20	8/14/2018	132	424	< 50.0	< 0.0123	< 0.0617	< 0.0308	< 0.0925		
MW30-28	28	8/14/2018	618	1,900	< 50.0	< 0.0113	< 0.0563	0.0473	0.123		
MW30-32	32	8/14/2018	96.2	407	< 50.0	< 0.0112	< 0.0558	< 0.0279	< 0.0837		
MW30-40	40	8/14/2018	< 6.80	266	250	< 0.0136	< 0.0680	< 0.0340	0.109		
MW31-19	19	8/15/2018	< 5.21	< 25.0	< 50.0	< 0.0104	< 0.0521	< 0.0261	< 0.0782		
MW31-28	28	8/15/2018	125	564	< 50.0	< 0.00904	< 0.0452	< 0.0226	< 0.0678		
IVIVV31-38	3ð 10	8/15/2018	< 5.23	< 25.0	< 50.0	< 0.0105		< 0.0202	< 0.0785		
IVIVV32-10	10	8/1//2018	< 5.09	< 25.0	< 50.0	< 0.0102	< 0.0509	< 0.0255	< 0.0704		
IVIVV32-14	28	8/1//2018	1,550	5,400	< 430	< 0.00930	< 0.0475	< 0.0258	< 0.0713		
11111132-28	20	8/1//2018	12.8	176	117	< 0.0108	< 0.0558	0.0209	0.0000		
N/N/10 25	35	8/10/2018	< 4.76	50.6	< 50.0	< 0.00953	< 0.0476	< 0.0238	< 0.0714		
IVI VV 10-35	55	8/16/2018	4.70	50.0	× 30.0	~ 0.00333	10.0470	× 0.0238	10.0714		

Notes

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

--- = not analyzed



Table 3

Slug Test Data Depth to Water (feet) verses Time August 20, 2018 Coleman Oil Site Wenatchee, Washington

Observation Well	MW09R	MW10R	MW24	MW25	MW26	MW27	MW28	MW29	MW30	MW31	MW32
Static DTW	19.02	24.33	26.09	27.56	25.2	24.62	25.8	36.14	35.23	35.15	12.33
Time											
Initial W/ Slug	18.76	24.06	25.94	26.95	24.88	24.32	25.48	35.86	34.91	34.85	12.04
Plus I Minute	19.02	24.15	26.09	26.98	24.9	24.34	25.52	35.87	34.94	34.87	12.11
Plus 2 Minutes	19.02	24.19	26.09	26.98	24.91	24.35	25.53	35.87	34.95	34.88	12.15
Plus 5 Minutes	19.02	24.22	26.09	26.98	24.92	24.36	25.57	35.88	34.95	34.88	12.18
Plus 10 Minutes	19.02	24.28	26.09	26.98	24.92	24.36	25.61	35.88	34.95	34.88	12.22
Initial DTW Change	0.26	0.27	0.15	0.61	0.32	0.3	0.32	0.28	0.32	0.3	0.29
Final DTW Change	0	0.05	0	0.58	0.28	0.26	0.19	0.26	0.28	0.27	0.11
Recharge over 10 Minutes	0.26	0.22	0.15	0.03	0.04	0.04	0.13	0.02	0.04	0.03	0.18
Relative Flow	High	High	High	Low	Low	Low	Medium	Low	Low	Low	High
Well Development Recharge Rate (gpm) ¹	0.108	1.345	1.300	0.009	0.030	0.012	0.028	<0.005	0.014	<0.005	0.130

Notes:

The slug test was perfromed prior to developing MW09R and MW32.

DTW = depth to water

¹Calculated from time for the well to recover 1 foot during well development. Data is on the Well Development Forms (Appendix B).

Appendix A Boring Logs

	GUI		<u>O BC</u>	REHOLE LOGS
MAJOR	DIVISIONS	SYM	BOLS	TYPICAL NAMES
		GW	••••	Well-graded gravels or gravel-sand mixtures, little to no fines.
ILS		GP	0000	Poorly-graded gravels or gravel-sand mixtures, little to no fines.
S S S	GRAVELS more than 50% coarse	GM	000	Silty gravels, gravel-sand-silt mixtures.
NED 2 of soi /e size)	fraction > no.4 sieve	GC	×××	Clayey gravels or gravel-sand-clay mixtures
BRAI than 1/		SW	· · · · · · · · · · · · · · · · · · ·	Well-sorted sands or gravelly sands, little to no fines.
SE G Nore	SANDS	SP		Poorly-sorted sands or gravelly sands, little to no fines.
DAR	less than 50% coarse fraction > no.4 sieve	SM		Silty sands, sand-silt mixtures.
ö		SC		Clayey sands, sand-clay mixtures.
ILS	SILTS & CLAYS	ML		Inorganic silts and very fine sands, silty or clayey fine sands or clayey silts with slight plasticity.
D SC ^{soil} ^{ze)}	Liquid Limit* less than 50%	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy or silty clays, lean clays.
1/2 of sieve si		OL		Organic silts and organic silty clays of low plasticity.
GRA re than o. 200 s	SILTS & CLAYS	МН		Inorganic silts, micaceous or diatomaceous fine sand or silty soils, elastic silts.
	Liquid Limit*	СН		Inorganic clays of high plasticity, fat clays.
FIN	greater than 00 %	ОН		Organic clays of medium to high plasticity, organic silty clay, organic silts.
HIGHLY	Y ORGANIC SOILS	Pt		Peat or other highly organic soils.
		Conc		Concrete
		Asph		Asphalt
		Mud		Mudstone
		SiltS		Siltstone
		SandS		Sandstone

* Liquid Limit represents the moisture content (in percent) of a soil at which point the soil no longer behaves like a plastic and starts to behave like a liquid.

BORING LOG SYMBOLS

SHEEN TYPES:

- NS No Sheen observed SS Slight Sheen observed (Spotty coverage of
- sheen pan, no iridescence) MS Moderate Sheen (full coverage of sheen pan,
- no iridescence) pan, iridescent)
- HS Heavy Sheen (full coverage of sheen

 $\frac{\text{PERCENTAGES:}}{\text{Trace - Particles are present but estimated to be less than 5\% Few}~~$ 5 to 10% Little - 15 to 25% Some - 30 to 45% Mostly - 50 to 100%

SAMPLE MOISTURE: Dry - No moisture, dry to touch Moist - Damp but no visible moisture Wet - Visible free water

SAMPLE PLASTICITY (FINE-GRAINED SOILS):

- Nonplastic Cannot be rolled at any moisture content Low Barely rolled, lump cannot be formed when drier than plastic limit
- Medium Easily rolled, lump crumbles when drier than plastic limit High Easily rolled yet takes considerable time to reach the plastic limit, molded shape can be formed without crumbling when drier than the plastic limit

PARTICLE SIZE RANGE (COARSE-GRAINED SOILS): Gravel - Fine, Coarse Sand - Fine, Medium, Coarse

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SAMPLE LOCATION SAMPLE INTERVAL SAMPLE RECOVERY GROUNDWATER, FIRST OBSERVED

SAMPLE TYPES: SS - Split Spoon G - Grab ST - Shelby Tube GS - Geoprobe Sampler

































Appendix B Well Development Forms

Inne:	1-18	Pro Pro	oject name: <u>Cl</u> oject #: <u>2017</u> .	m n 574
WELL INFORMATION Anonument condition Good o Needs repair Vell cap condition O Good o Locked o Replaced o Needs replaced leadspace reading Not measured ppm leadspace reading Other o leadspace reading Other		En	gineer: R&H	
VELL MEASUREMENTS otal well depth <u>34.25</u> ft o Clean bottom o Muddy bottom o Not measure epth to product <u>ft</u> epth to water <u>26.51</u> ft asing volume <u>7.74</u> ft (H ₂ O) X <u>0.65</u> gpf = <u>5.01</u> asing volumes 1"=0.04 gpf 1.5"=0.09 gpf 2"=0.16 gpf <u>4"=0.65 gpf</u> 6"=1.4; URGING INFORMATION ump type o Peristaltic o Submersible o Centrifugal o Other ailer type o Disposable o Stainless o PVC o Other ailer cord used o Monofillament eOther urge start time <u>1100</u> Purge stop time <u>1143</u> Purge Rate (GPM) otal Volume Purged (gallons) <u>55%</u>	FORMATION condition & Good ondition & Good reading & Not meas nark & o Yes eter & o 1.5-inch o Comment	o Needs rep o Locked ured Added o 2-inch	air o Replaced ppm o Other o 4-inch	o Needs replacement o Other
URGING INFORMATION ump type o Peristaltic e Submersible o Centrifugal o Other	ASUREMENTS depth 34.25 ft roduct ft ater 26.51 ft time 7.74 ft (H times 1"=0.04 opt 15"	o Clean bottom $I_2(0) \times 0.65$	o Muddy botton gpf = 5.0	n o Not measured
IELD PARAMETERS eters used o Flow Thru Cell o Hach o Hanna Other allons pH Temp. Conductivity Turbidity Dissolved Oxygen ORP 6.7 17.2 833.4/5 Clar Other ORP 0.7 17.2 833.4/5 Clar Other ORP 0.7 17.2 833.4/5 Clar Other Other 0.7 24.01' 0 0 Other Other Other Other 0.7 24.01' 0 0 0 0 0 0 0 0 0 0.7 28.20 0 52 0	ig o New LDPE o Ne o Disposable o Si used o Monofillar time_1100 Purg me Purged (gallons)	ew HDPE o New tainless o PV(ment ge stop time_1) S S ac 1	w Teflon o Oth C o Other o Other 13Purge	er Rate (GPM)
OTES/COMMENTS 10 10 28.20 : 52 Sec. 5-20 To 28.20 : 52 Sec.	AMETERS i o FlowThru Cell o F pH Temp. Con 6.≩ 17.2*c	lach o Hanna ductivity <u>Turbi</u> 833 4/C Cla	Other	Oxygen ORP
	MMENTS	2 200		

	Well ID #:_ <u> %w25</u> Date: <u>5 % -)&</u> Time:		Pr Pr Er	oject name: <u>C.l.</u> oject #: <u>2017-0</u> gineer: <u>1</u> 24 4	ena 0.1			
	WELL INFORMATION Monument condition Well cap condition	ON S Good Good	o Needs rep o Locked	air o Replaced	o Needs replacement			
	Elevation mark Well diameter o Odor	o Yes o 1.5-inch o Comments	Added o 2-inch	o Other 4-inch	o Other			
	WELL MEASUREME Total well depth 32. Depth to product Depth to water 19.5 Casing volume 13.4 Casing volumes 1"=0	ENTS 96 ft o ft 51 ft 55 ft (H ₂) 0.04 gpf 1.5"=0	0 Clean bottom 0) X <u>0.65</u> 0.09 gpf 2"=(o Muddy bottor $gpf = \frac{\$.7}{4"=0.0}$	m o Not measured			
	PURGING INFORMATION Pump type o Peristaltic o Submersible o Centrifugal o Other Purge tubing o New LDPE o New HDPE o New Teflon o Other Bailer type o Disposable o Stainless o PVC o Other Bailer cord used o Monofillament o Other Purge start time 1000 Purge stop time Purge Rate (GPM)							
18	FIELD PARAMETERS Meters used o FlowThru Cell o Hach o Hanna Other Gallons pH Temp. Conductivity Turbidity Dissolved Oxygen ORP							
10/12	DTW 29.15' 2.5'scilu	s is not Prope	2 0751 70	onsy Dry	knowed 23 gol Tarbil,			
	NOTES/COMMENTS	DTW 32.14 (مليهو آن 15.1	4 in 73	e ends			



Well ID #: Marco		Pr	oject name: Cole	74		
Time:		En	Engineer: 1.44			
WELL INFORMATION Monument condition Well cap condition Headspace reading Elevation mark Well diameter	ON Good Good Not measure o Yes o 1.5-inch	o Needs rep o Locked d Ø Added o 2-inch	air o Replaced ppm o Other @⁄4-inch	o Needs replacement o Other		
WELL MEASUREMI Total well depth <u>33.3</u> Depth to product Depth to water <u>18.20</u> Casing volume <u>18.20</u> Casing volume <u>1"=0</u>	ENTS 52 ft o (ft c ft c ft c ft (H ₂ O) 0.04 gpf 1.5"=0.	Clean bottom) X <u>م-دح</u> 09 gpf 2"=(o Muddy bottor $gpf = \underline{9.95}$ 0.16 gpf 4''=0.6	n o Not measured		
PURGING INFORMA Pump type o Peris Purge tubing o New Bailer type o Disp Bailer cord used Purge start time O&1 Total Volume Purged	ATION staltic of Subm LDPE o New osable o Stain o Monofillamen O Purge s I (gallons)	ersible o Ce HDPE o Ne Iless o PV nt top time	entrifugal o Oth w Teflon o Oth C o Other o Other Purge	er er Rate (GPM)		
FIELD PARAMETER Meters used o Flow Gallons pH	RS Thru Cell o Hac <u>Temp.</u> Conduc	h o Hanna <u>:tivity Turb</u>	o Other idity Dissolved	Oxygen ORP		
NOTES/COMMENTS 370 Proport / Kg Intre 0820	5 17 30/ 10mml 32.70' leda	Ndih Th n T- 31.71	14. () in 084	8(12) minda.		



Well ID #:_ <u>µw? ٦</u> Date: 1-1-15 Time:		Pro	oject name: oject #: _2017. # gineer:	
WELL INFORMATIO Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	DN Good Good Not measured o Yes o 1.5-inch o Comments	o Needs rep o Locked d Ø Added o 2-inch	air o Replaced ppm o Other b 4-inch	o Needs replacement o Other
WELL MEASUREME Total well depth <u>38</u> . Depth to product Depth to water <u>24.2</u> Casing volume <u>15.4</u> Casing volumes <u>1"=0</u>	ENTS 74 ft o C 6 ft 6 ft 8 ft (H ₂ O) .04 gpf $1.5''=0.0$	lean bottom X <u>0.65</u> 9 gpf 2"=0	o Muddy bottor gpf = 9.4 16 gpf 4 = 0.4	m o Not measured
PURGING INFORMA Pump type o Peris Purge tubing o New Bailer type o Dispo Bailer cord used Purge start time 12 Total Volume Purged	TION taltic Subm LDPE o New H osable o Stain o Monofillamen Purge st (gallons)	ersible o Ce IDPE o Net less o PV it cop time_11	ntrifugal o Oth w Teflon o Oth C o Other o Other Purge	er er Rate (GPM)
FIELD PARAMETER Meters used o Flow Gallons pH = 15 541 1155 Pr-Pal day	S Thru Cell o Hach Temp. <u>Conduc</u>	n o Hanna tivity Turbi	o Other dity Dissolved २० ४८.७१	Oxygen ORP
NOTES/COMMENTS		(4)	e1	·* · •

Date:. 8-13-18 Time:	Pro Pro Enj	oject name: oject #:2-17-0 gineer:^	74
WELL INFORMATI Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	ON Good O Needs repa Good O Locked Not measured O Yes O Added O 1.5-inch O 2-inch O Comments	air o Replaced ppm o Other o 4-inch	o Needs replacement o Other
WELL MEASUREM Total well depth <u>38</u> Depth to product Depth to water <u>26-</u> Casing volume <u>14</u> Casing volumes <u>1"</u> =	ENTS .74 ft o Clean bottom ft 3c, ft .15 ft (H ₂ O) X 0.65 0.04 gpf 1.5"=0.09 gpf 2"=0,	o Muddy botton $\frac{gpf}{16 gpf} = \frac{9.5}{(4^{\circ})=0.6}$	n o Not measured
PURGING INFORM Pump type o Peri Purge tubing o New Bailer type o Disp Bailer cord used Purge start time <u>\02</u> Total Volume Purge	ATION staltic of Submersible o Cer LDPE o New HDPE o New toosable o Stainless o PVC o Monofillament <u>6</u> Purge stop time03 d (gallons)	ntrifugal o Othe v Teflon o Othe c o Other o Other 37Purge	er er Rate (GPM)
FIELD PARAMETEI Meters used o Flow Gallons pH	RS /Thru Cell o Hach o Hanna <u>Temp. Conductivity Turbi</u>	Other	Oxygen ORP
NOTES/COMMENT	s 35,30 in 23 ma	h.	

Well ID #: Date: Time:		Project name: Project #: Engineer: ###			
WELL INFORMATION Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	ON Good O Needs of Good O Locked Not measured O Yes Added O 1.5-inch O 2-inch O Comments	o Replaced ppm O Other 4-inch	o Needs replacement o Other		
WELL MEASUREMI Total well depth <u>\$</u> Depth to product <u></u> Depth to water <u>25.0</u> Casing volume <u>14.</u> Casing volumes <u>1</u> "=(ENTS ・11 ft o Clean bott ft パコ ft レー ft レー ft (H ₂ O) X <u>0.63</u> 0.04 gpf 1.5″=0.09 gpf 2	form o Muddy bottom $ \frac{1}{9} \frac{1}{9} = \frac{9.1}{(4^{2})} $	m o Not measured $\overline{65}$ gpf $6'' = 1.47$ gpf		
PURGING INFORM Pump type o Peris Purge tubing e New Bailer type o Disp Bailer cord used Purge start time <u>1220</u> Total Volume Purge	ATION staltic Submersible o LDPE o New HDPE o osable o Stainless o o Monofillament Purge stop time_ (gallons)	Centrifugal o Oth New Teflon o Oth PVC o Other o Other 1255Purge	er er e Rate (GPM)		
FIELD PARAMETER Meters used o Flow Gallons pH	RS Thru Cell o Hach o Han Temp. <u>Conductivity</u> Tu	na o Other arbidity <u>Dissolved</u>	Oxygen ORP		
NOTES/COMMENTS	5				

Date:. <u>6-16-18</u> Time: <u>6</u>		Pr Pr En	oject name: oject #: <u>_2017-0-</u> gineer:UH	14
WELL INFORMATI	ON O/Good	Needs ren	air	
Well cap condition Headspace reading Elevation mark	o Good Not measured o Yes	o Locked I Added	o Replaced ppm o Other	o Needs replacement
Well diameter o Odor	o 1.5-inch _o Comments	o 2-inch	vo 4-inch	o Other
Depth to product Depth to water 25 Casing volume 19 Casing volumes 1"=	ft <u>.62</u> ft <u>.17</u> ft (H ₂ O) 0.04 gpf 1.5"=0.0	x 9 gpf2"=($gpf = \frac{9.2}{4''=0.4}$	$\overline{65}$ gpf $6'' = 1.47$ gpf
Pump type o Peri Purge tubing o New Bailer type o Disp Bailer cord used Purge start time <u>12</u> Total Volume Purge	staltic o Submo LDPE o New F oosable o Stain o Monofillamen Purge st d (gallons)	ersible o Ce IDPE o Ne less o PV it cop time	entrifugal o Oth w Teflon o Oth C o Other o Other Purge	er er e Rate (GPM)
FIELD PARAMETER Meters used o Flow Gallons pH Insue 3 15 og 1	RS vThru Cell o Hach <u>Temp.</u> <u>Conduc</u> wback 39.14	n o Hanna tivity Turb h + nuo	o Other	Oxygen ORP
NOTES/COMMENT	S			



Well ID #: 71% S 1 Date: 5% 71% 1 S 1 Time:		Proje Proje Engir	ect name: ect #: neer:	^ب ري
WELL INFORMATION Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	DN © Good O N © Good O I © Not measured O Yes O A O 1.5-inch O 2 _O Comments	Needs repair Locked Added 2-inch	o Replaced ppm o Other o 4-inch	o Needs replacement o Other
WELL MEASUREME Total well depth Depth to product Depth to water 25. Casing volume 13 Casing volumes 1"=0	ENTS <u>2 8</u> ft o Clea ft <u>5 1</u> ft <u>7 7</u> ft (H ₂ O) X 0.04 gpf 1.5"=0.09 g	an bottom o <u>QGF</u> gpf 2"=0.1	Muddy botton gpf = $\frac{8.95}{4"=0.0}$	m o Not measured 65 gpf 6"= 1.47 gpf
PURGING INFORMA Pump type o Peris Purge tubing o New Bailer type o Disp Bailer cord used Purge start time <u>2</u> Total Volume Purge	ATION staltic o Submers LDPE o New HD osable o Stainles o Monofillament Q Purge stop I (gallons)	sible o Cent PE o New s o PVC	rifugal o Oth Teflon o Oth o Other o Other DebPurge	er er e Rate (GPM)
FIELD PARAMETER Meters used o Flow Gallons pH fun u 15 Gr	S Thru Cell o Hach Temp. Conductiv	o Hanna ity Turbidi	o Other ity Dissolved	Oxygen ORP
NOTES/COMMENT:	5			



Well ID #:SZ Date:S Time:I		Proje Proje Engi	ect name: ect #: <u>20 17-0</u> - neer: <u>11-1</u>	74
WELL INFORMATIO Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	ON O Good O O Good O O Not measured O Yes O O 1.5-inch O _O Comments	Needs repair Locked Added 2-inch	r o Replaced ppm o Other &⁄4-inch	o Needs replacement
WELL MEASUREME Total well depth <u>35</u> Depth to product Depth to water <u>103</u> Casing volume <u>21</u> Casing volumes <u>1"=0</u>	ENTS	ean bottom o X gpf 2"=0.1	Muddy bottor gpf = $\frac{ \psi ^{-1}}{4^{2} \ge 0.4}$	m o Not measured $\overline{65}$ gpf $6'' = 1.47$ gpf
PURGING INFORMA Pump type o Peris Purge tubing o New Bailer type o Dispo Bailer cord used Purge start time 1115 Total Volume Purged	ATION staltic o Submer LDPE o New Hi osable o Stainle o Monofillament Purge sto I (gallons)	rsible o Cent DPE o New ess o PVC	trifugal o Oth Teflon o Oth o Other o Other Purge	er er e Rate (GPM)
FIELD PARAMETER Meters used o Flow Gallons pH 1135 52-p 3 32 25 get 1 cmm	Ar Ignl.	o Hanna ivity Turbid ∠ to 3∯	o Other ity <u>Dissolved</u> らい・ヘ	Oxygen ORP
NOTES/COMMENTS	5			



me:	pair o Replaced ppm o Other o /4-inch gpf = $\frac{\xi \cdot y}{4''=0.0}$ entrifugal o Oth ew Teflon o Oth	o Needs replacement o Other n o Not measured 65 gpf 6"= 1.47 gpf er er
ELL INFORMATION onument condition © Good o Needs reperied ell cap condition © Good o Locked eadspace reading © Not measured	pair o Replaced ppm o Other o Other o 4-inch n o Muddy bottor gpf = $\frac{\xi \cdot y}{4''=0.0}$ entrifugal o Oth ew Teflon o Oth	o Needs replacement o Other n o Not measured $\overline{65}$ gpf 6"= 1.47 gpf er er
OdorO CommentsO Comments	$\frac{gpf}{0.16 gpf} = \frac{\zeta \cdot \delta}{4''=0.4}$ entrifugal o Othew Teflon o Oth	n o Not measured 65 gpf 6"= 1.47 gpf er er
ELL MEASUREMENTS otal well depth 32-40 ft o Clean bottom epth to productft ft o Clean bottom epth to productft sing volume 13.5% ft (H2O) X 2000 sing volume 13.5% sing volumes 1"=0.04 gpf 1.5"=0.09 gpf 2"= JRGING INFORMATION ump type o Peristaltic o Submersible o Colspan="2">o New HDPE o N uiler type o Disposable o Stainless o P iler cord used o Monofillament urge start time 1210 Purge stop time telD PARAMETERS eters used o FlowThru Cell o Hach o Hanna Ilons PH Temp. Conductivity Tur a 32.55 a 32.55	a o Muddy botton $gpf = \frac{\zeta \cdot \zeta}{4'' = 0.0}$ entrifugal o Oth ew Teflon o Oth	n o Not measured 65 gpf 6"= 1.47 gpf er er
URGING INFORMATION ump type o Peristaltic o Submersible o urge tubing o New LDPE o New HDPE o N uiler type o Disposable o Stainless o P uiler type o Disposable o Stainless o P uiler type o Disposable o Stainless o P uiler cord used o Monofillament o Purge stop time	entrifugal o Oth ew Teflon o Oth	er
ELD PARAMETERS eters used o FlowThru Cell o Hach o Hanna llons pH Temp. Conductivity Tur 23 33.55 To 32.55 10 mark d.f. 25g-1.	C o Other o Other Purge	Rate (GPM)
	o Other <u>pidity Dissolved</u> 2.2 ຳ	Oxygen ORP
DTES/COMMENTS		



Date: Time:	P P E	roject name: roject #: 2-17-014 ngineer: _ M M	
WELL INFORMATION Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	Good O Needs re Good O Locked Not measured Yes Added 1.5-inch O 2-inch Comments	pair o Replaced ppm o Other & 4-inch	o Needs replacement o Other
WELL MEASUREMEN Total well depth 33.54 Depth to product Depth to water 27.53 Casing volume 11.00 Casing volumes 1"=0.0	TS ☐ft o Clean botton ft ft ft (H₂O) X65 4 gpf 1.5″=0.09 gpf 2″=	n o Muddy botton $gpf = \frac{7}{4^{\circ}} = 0.0$	n o Not measured
PURGING INFORMAT Pump type o Perista Purge tubing o New LI Bailer type o Dispos Bailer cord used o Purge start time المحك Total Volume Purged (TION Iltic o Submersible o C DPE o New HDPE o Ne able o Stainless o P Monofillament Purge stop time	entrifugal o Oth ew Teflon o Oth /C o Other o Other 20Purge	er er Rate (GPM)_1.0
FIELD PARAMETERS Meters used o FlowTh Gallons pH T	nru Cell o Hach o Hanna emp. <u>Conductivity</u> <u>Tur</u>	a o Other bidity <u>Dissolved</u>	Oxygen ORP
NOTES/COMMENTS	Sec.		
Appendix C Laboratory Reports and Chain-of-Custody Documentation



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



Tuesday, August 21, 2018

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

RE: A8H0328 - 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 A8H0328, which was received by the laboratory on 8/13/2018 at 9:55:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>ldomenighini@apex-labs.com</u>, 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.

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

A Zomenichini

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.



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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION										
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received						
MW24-15	A8H0328-01	Soil	08/06/18 09:30	08/13/18 09:55						
MW24-22	A8H0328-02	Soil	08/06/18 10:10	08/13/18 09:55						
MW24-28	A8H0328-03	Soil	08/06/18 10:40	08/13/18 09:55						
MW24-35	A8H0328-04	Soil	08/06/18 11:00	08/13/18 09:55						
MW25-19	A8H0328-05	Soil	08/07/18 08:00	08/13/18 09:55						
MW25-22	A8H0328-06	Soil	08/07/18 08:20	08/13/18 09:55						
MW25-35	A8H0328-07	Soil	08/07/18 09:00	08/13/18 09:55						
MW26-15	A8H0328-08	Soil	08/08/18 08:20	08/13/18 09:55						
MW26-19	A8H0328-09	Soil	08/08/18 08:35	08/13/18 09:55						
MW26-29	A8H0328-10	Soil	08/08/18 08:50	08/13/18 09:55						
MW26-33	A8H0328-11	Soil	08/08/18 09:25	08/13/18 09:55						
MW27-15	A8H0328-12	Soil	08/09/18 08:40	08/13/18 09:55						
MW27-19	A8H0328-13	Soil	08/09/18 08:55	08/13/18 09:55						
MW27-39	A8H0328-14	Soil	08/09/18 10:35	08/13/18 09:55						
MW28-19	А8Н0328-15	Soil	08/10/18 07:45	08/13/18 09:55						
MW28-25	A8H0328-16	Soil	08/10/18 08:10	08/13/18 09:55						
MW28-39	A8H0328-17	Soil	08/10/18 09:45	08/13/18 09:55						

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Assa A Zomenighini

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.



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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

ANALYTICAL CASE NARRATIVE

Work Order: A8H0328

Temperature Exceedance-

Samples were received at 14.4 °C, which exceeds the regulatory requirements for proper storage at less than or equal to 6 °C.

Affected samples have been qualified with a "TEMP" qualifier in this report.

Lisa Domenighini Client Services Manager

Apex Laboratories

Assa A Somenichini

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Lisa Domenighini, Client Services Manager

Page 3 of 38



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

Diesel	ND		25.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
MW26-15 (A8H0328-08)				Matrix: Soil		Ba	tch: 8080799	TEMP
Surrogate: o-Terphenyl (Surr)		Recove	ery: 95 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Oil	323		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	F-03, F-16
Diesel	239		25.0	mg/kg dry	1	08/15/18	NWTPH-Dx	F-13, F-15
MW25-35 (A8H0328-07)				Matrix: Soil		Ba	tch: 8080799	TEMP
Surrogate: o-Terphenyl (Surr)		Recove	ery: 86 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Oil	92.7 ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	1-15
IVIVV23-22 (AONU328-UB)	02.7		25.0	malia day	1	08/15/19	NWTPH Dy	IEMP F_13
MA/25 22 (AQU0220 00)				Motrine Oct			tob: 0000700	
Surrogate: o-Terphenvl (Surr)	IND	Recove	erv: 68 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Diesel	ND		25.0	mg/kg dry	1	08/15/18 08/15/18	NWTPH-Dx NWTPH-Dx	
MW25-19 (A8H0328-05)				Matrix: Soil		Ba	tch: 8080799	TEMP
Surrogate: o-Terphenyl (Surr)		Recove	ery: 65 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Oil	ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
Diesel	73.0		25.0	mg/kg dry	1	08/15/18	NWTPH-Dx	F-13
MW24-35 (A8H0328-04)	Matrix: Soil Batc					tch: 8080799	TEMP	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 74 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Oil	ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
ичич24-20 (АОПU328-U3) ————————————————————————————————————	ND		25.0	mau'ix: Soll	1	08/15/18	NWTPH-Dx	IEMP
M///2/-28 (A8H0320 03)			-	Matrix: Soil		Pa	tch: 8080700	TEMP
Surrogate: o-Terphenyl (Surr)		Recove	ery: 91 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Diesel	ND		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx NWTPH-Dy	
MW24-22 (A8H0328-02)				Matrix: Soil		Ba	tch: 8080854	TEMP
Surrogate: o-Terphenyl (Surr)		Recover	ry: 101 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Oil	ND		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
Diesel	ND		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
MW24-15 (A8H0328-01)				Matrix: Soil		Ва	tch: 8080854	TEMP
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
	Dies	el and/or Oil	l Hydrocar	bons by NWTPH	l-Dx			
		ANALYTIC	CAL SAMI	PLE RESULTS				
Vancouver, WA 98660		Project N	Manager: Cra	aig Hultgren			A8H0328 - 08	21 18 1032
314 W 15th Street Suite 300		Project	Number: 201	7-074			<u>Repor</u>	<u>tt ID:</u>
HydroCon LLC		Proje	ect: <u>Col</u>	leman Wenatchee				

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

Jair W 15h Street Saits 300 Yancouver, WA 98660 Project Manager: Craig Hulgren Remert D: ABH0328 - 08 21 18 1032 ANAL SYTICAL SAMPLE RESULTS ANALOSS - 08 21 18 1032 Market Saits 300 Diesel and/or Oil Hydrocarbons by NWTPH-Dx Date Analyzed Date Result Diminion Date Analyzed Math 228 - 08 21 18 1032 Multiple Sample Result Disection Oil Hydrocarbons by NWTPH-Dx Date Analyzed Date Method Ref Notes Multiple Sample Result Disection Oil Hydrocarbons by NWTPH-Dx Date Analyzed Date Method Ref Notes Multiple Sample Detection Reporting Result Matrix: Soil Batch: 8000799 TEMP Dised 34.1 250 mgkg dry 1 08/15/18 NWTPH-Dx F13 Oil ND 250 mgkg dry 1 08/15/18 NWTPH-Dx F13 Sumgate a-Terphonyl Olary Researcy: 75 Jamatrix: Soil Batch: 8000799 TEMP Dised 34.1 250 mgkg dry 1 08/15/18 NWTPH-Dx F13	HydroCon LLC		Project:	Co	leman Wenatchee				
Vancouver, WA 98660 Project Manager: Craig Hudgreen ASH10328 - 08 21 18 1032 ANALYTICAL SAMPLE: RESULTS Diesel and/or Oil Hydrocarbox by NWTPH-Dx Date Method Ref. Notes Analyte Result Reparing Lumit Units Dibution Analyzed Method Ref. Notes MW26-15 (A8H0328-08) Matrix: Soil Batch: 8000799 TEMP Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx MW26-16 (A8H0328-08) Matrix: Soil Batch: 8000799 TEMP Diesed 34.1 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx MW26-29 (A8H0328-09) ME Recovery: 87.0 mg/kg dry 1 08/15/18 NWTPH-Dx MW26-29 (A8H0328-10) ME Accovery: 87.0 mg/kg dry 1 08/15/18 NWTPH-Dx MW26-29 (A8H0328-10) ME Accovery: 77.5 Batch: 8000799 TEMP Diesel 94.8	314 W 15th Street Suite 300		Project Nur	mber: 201	17-074			Repor	t ID:
NALITICAL SAMPLE RESULTS Dissel and/or Oil Hydrocarbons by NWTPH-bx Analyte Sample Result Dissel Limit Reprint Result Units Date Diste Method Ref. Notes MW2e15 (A8H0328-09) ND 50.0 mg/kg dry 1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 81.4 1 08/15/18 NVTPH-bx Disel 34.1 25.0 mg/kg dry 1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 81.4 1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 81.4 1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 81.4 1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 77.4 Linkits 50.1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surry) Recovery: 77.4 Linkits 50.1 08/15/18 NVTPH-bx Storagate, o-Terphond (Surr	Vancouver, WA 98660		Project Mar	nager: Cr	aig Hultgren			A8H0328 - 08	21 18 1032
Diesel and/or Oil Hydrocarbons by NWTPH-Dx Analyte Sample Result Detection Limit Reporting Limit Date Units Date Mathies Analyzed Method Ref. Analyzed Notes MV26-15 (A8H0328-08) Matrix: Soll Batch: 8060799 TEMP Oil ND 50.0 mg/kg dry 1 08/15/18 NUTPH-Dx Surregate: o-Terphorp! (Surr) Recenery: 81.% Lunux: 50.10 mg/kg dry 1 08/15/18 NUTPH-Dx WV26-19 (A8H0328-09) Matrix: Soll Batch: 8060799 TEMP Diesel 34.1 25.0 mg/kg dry 1 08/15/18 NUTPH-Dx Surregate: o-Terphorp! (Surr) Recentery: 83.% Limit: 50.0 mg/kg dry 1 08/15/18 NUTPH-Dx MV26-29 (A8H0328-10) Matrix: Soil Batch: 8060799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/15/18 NUTPH-Dx Surregate: o-Terphorp! (Surr) Recentery: 75.4			ANALYTICA	LSAM	PLE RESULTS				
Sample Analyte Sample Besel Detection Limit Reporting Units Dilation Date Analyzed Method Ref Notes MW26-15 (A8H0328-08) Matrix: Soil Batch: 808079 TEMP Sirrogar: e-Terphenyl (Surr) Recovery: 81 % Limit: 30-150 % 1 08/15/18 NWTPH-Dx MW26-15 (A8H0328-09) Matrix: Soil Batch: 8080799 TEMP Disel 34.1 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogar: e-Terphenyl (Surr) Recovery: 83 % Limit: 50-150 % 1 08/15/18 NWTPH-Dx F-13 Surrogar: e-Terphenyl (Surr) Recovery: 83 % Limit: 50-150 % 1 08/15/18 NWTPH-Dx F-13 Surrogar: e-Terphenyl (Surr) Recovery: 77 % Limit: 50-150 % 1 08/15/18 NWTPH-Dx F-13 Surrogar: e-Terphenyl (Surr) Recovery: 77 % Limit: 50-150 % 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogar: e-Terphenyl (Surr) Recovery: 73 % Limit: 50-150 % 1 08/16/18 NWTPH		Die	sel and/or Oil H	ydrocar	bons by NWTPI	l-Dx			
Analyze Result Limit Limit Units Dilution Analyzed Method Ref. Notes MW28-15 (A8H0328-08) Matrix: Soil Batch: 8080799 TEMP Oil ND 50.0 mg/kg dry 1 081/5/18 NWTPH-Dx Surragate: or Terphenyl (Surr) Recovery: 81 % Lokia: 501.0 %1.5/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 081/5/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 081/5/18 NWTPH-Dx F-13 Surragate: or Terphenyl (Surr) Recovery: 83 % Lowitz: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 081/5/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 081/5/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry <t< th=""><th></th><th>Sample</th><th>Detection R</th><th>Reporting</th><th></th><th></th><th>Date</th><th></th><th></th></t<>		Sample	Detection R	Reporting			Date		
MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080799 TEMP Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx Surrogate: o-Terphony (Narr) Recovery: 81% Limits: 50-150 % 1 08/15/18 NWTPH-Dx FEMP MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080799 TEMP Diesel 34.1 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 MW26-29 (A8H0328-10) Recovery: 81% Limits: 50-150 % 1 08/15/18 NWTPH-Dx F-13 MW26-32 (A8H0328-10) Recovery: 75% Limits: 50-150 % 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphonyl (Surr) Recovery: 75% Limits: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphonyl (Surr) Recovery: 75% Limits: Soil Batch: 8080799 TEMP Diesel 01 ND </td <td>Analyte</td> <td>Result</td> <td>Limit</td> <td>Limit</td> <td>Units</td> <td>Dilution</td> <td>Analyzed</td> <td>Method Ref.</td> <td>Notes</td>	Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx Sarragute: o-Terphongl (Surr) Recovery: 81 % Linut: 50.130 % 1 08/15/18 NWTPH-Dx MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080799 TEMP Discel 34.1 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx Surragute: o-Terphongl (Surr) Recovery: 83 % Linuit: 50.130 % 1 08/15/18 NWTPH-Dx MW26-29 (A8H0328-10) Recovery: 73 % Linuit: 50.130 % 1 08/15/18 NWTPH-Dx MW26-33 (A8H0328-10) Recovery: 77 % Linuit: 50.130 % 1 08/15/18 NWTPH-Dx Surragute: o-Terphongl (Surr) Recovery: 77 % Linuit: Sol 10 Batch: 8080799 TEMP Discel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surragute: o-Terphongl (Surr) Recovery: 60 % Linuit: 50-130 % 1 08/16/18 NWTPH-Dx	MW26-15 (A8H0328-08)				Matrix: Soil		Ba	tch: 8080799	TEMP
Barcague: o-Terphenyl (Surr) Recovery: 81 % Lands: 50-130 % I 08/15/18 NHTPH-Dx MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080799 TEMP Diesel 34.1 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recervery: 83 % Linki: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 77% Linki: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 77% Linki: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 MW26-33 (A8H0328-11) Meary 1 08/16/18 NWTPH-Dx F-14 Surrogate: o-Terphenyl (Surr) Recover	Oil	ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080799 TEMP Disel Orll 34.1 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 83 % Limits: Soil 6 Batch: 8080799 TEMP MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080799 TEMP Dised 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 77.% Limits: Soil Batch: 8080799 TEMP Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 77.% Limits: Soil Batch: 8080799 TEMP Dised 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-43, F-15 Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-43, F-15 Surrogate: o-Terphenyl (Surr) Recovery: 50.0 mg/kg dry <td>Surrogate: o-Terphenyl (Surr)</td> <td></td> <td>Recovery:</td> <td>81 %</td> <td>Limits: 50-150 %</td> <td>1</td> <td>08/15/18</td> <td>NWTPH-Dx</td> <td></td>	Surrogate: o-Terphenyl (Surr)		Recovery:	81 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Disci 01 34.1 ND 25.0 50.0 mg/kg dry mg/kg dry 50.0 1 mg/kg dry 50.0 0 08/15/18 NWTPH-bx NWTPH-bx F-13 MW26-29 (A8H0328-10) Recovery: 01 8% Limits: 50-150 % 1 08/15/18 NWTPH-bx F-13 MW26-29 (A8H0328-10) Matrix: Sol Batch: 8080799 TEMP Disel 01 ND 50.0 mg/kg dry 1 08/15/18 NWTPH-bx F-13 Surrogate: o-Terphonyl (Surr) Recovery: 77% Limits: 50-150 % 1 08/15/18 NWTPH-bx F-13 Surrogate: o-Terphonyl (Surr) Recovery: 75% Limits: Sol-150 % 1 08/16/18 NWTPH-bx F-13 Disel 01 228 25.0 mg/kg dry 1 08/16/18 NWTPH-bx F-03, F-15 Surrogate: o-Terphonyl (Surr) Recovery: 50% Limits: Sol-150 % 1 08/16/18 NWTPH-bx F-03, F-03 Surrogate: o-Terphonyl (Surr) Recovery: 50% Limits: Sol-150 % 1 08/16/18 NWTPH-bx	MW26-19 (A8H0328-09)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx surragate: o-Terphenyl (Surr) Recovery: 83 % Limit: 50-150 % I 08/15/18 NWTPH-Dx MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080799 TEMP Diesel 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surragate: o-Terphonyl (Surr) Recovery: 77 % Limits: 50-150 % I 08/15/18 NWTPH-Dx F-13 MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Diesel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 288 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx MW27-15 (A8H0328-12) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) ND 25.0 mg/kg dry 1	Diesel	34.1		25.0	mg/kg dry	1	08/15/18	NWTPH-Dx	F-13
Surrogate: a-Terphonyl (Surry) Recovery: 83 % Limits: 50-150 % 1 08/15/18 NWTPH-Dx MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080799 TEMP Disel 94.8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: a-Terphonyl (Surr) Recovery: 77 % Einitis: 50+159 % 1 08/15/18 NWTPH-Dx F-13 MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Disel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13. Surrogate: a-Terphonyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-43. F-16 Surrogate: a-Terphonyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Surrogate: a-Terphonyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx <	Oil	ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080799 TEMP Disel 94,8 25.0 mg/kg dry 1 08/15/18 NWTPH-Dx F-13 Surrogate: o-Terphonyl (Surr) Recorvery: 77 % Limits: 30-150 % 1 08/15/18 NWTPH-Dx F-13 MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Disel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: o-Terphonyl (Surr) Recorvery: 90 % Limits: Soil Batch: 8080799 TEMP Disel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-43, F-16 Surrogate: o-Terphonyl (Surr) Recorvery: 90 % Limits: Soil Batch: 8080799 TEMP Disel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphonyl (Surr) Recorvery: 51 % Limits: 30-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recorvery: 81	Surrogate: o-Terphenyl (Surr)		Recovery:	83 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Disel Oil 94.8 ND 25.0 50.0 mg/kg dry mg/kg dry 1 1 08/15/18 08/15/18 NWTPH-Dx NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 77.% Idmits: 30-150 % 1 08/15/18 NWTPH-Dx F-13 MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Disel 228 500 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-15 Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-15 MW27-15 (A8H0328-12) ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 %	MW26-29 (A8H0328-10)		Matrix: Soil Batch: 8080799					tch: 8080799	TEMP
Oil ND \$0.0 mg/kg dry 1 08/15/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 77 % Limits: 50-150 % 1 08/15/18 NWTPH-Dx MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Diesel 228 \$0.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 288 \$0.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: \$0-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel ND \$50.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: \$1 % Limits: \$0-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Matrix: Soil Batch:	Diesel	94.8	,	25.0	mg/kg dry	1	08/15/18	NWTPH-Dx	F-13
Surrogate: o-Terphenyl (Surr) Recovery: 77 % Limits: 50-150 % 1 08/15/18 NWTPH-Dx MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Diesel 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 288 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 MW27-15 (A8H0328-12) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-103, F-16 Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Disel<	Oil	ND		50.0	mg/kg dry	1	08/15/18	NWTPH-Dx	
MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080799 TEMP Disel Oil 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Swrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: Soil Batch: 8080799 TEMP MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Swrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: Soil Batch: 8080799 TEMP Diesel Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil Recovery: 81 % <td>Surrogate: o-Terphenyl (Surr)</td> <td></td> <td>Recovery:</td> <td>77 %</td> <td>Limits: 50-150 %</td> <td>1</td> <td>08/15/18</td> <td>NWTPH-Dx</td> <td></td>	Surrogate: o-Terphenyl (Surr)		Recovery:	77 %	Limits: 50-150 %	1	08/15/18	NWTPH-Dx	
Disel Oil 228 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Out 288 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: o-Terpheny! (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13, F-15 MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: o-Terpheny! (Surr) ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Surrogate: o-Terpheny! (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13, F-15 Disel 263 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil ND 50.0 mg/kg dry 1 08/16/18	MW26-33 (A8H0328-11)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil 288 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: Sol-150 % I 08/16/18 NWTPH-Dx MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % I 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51 % Limits: 50-150 % I 08/16/18 NWTPH-Dx Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51 % Limits: 50-150 % I 08/16/18 NWTPH-Dx F-13 Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % I 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14)	Diesel	228	/_	25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	F-13, F-15
Surrogate: o-Terphenyl (Surr) Recovery: 90 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Gil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14) Metrix: Soil Batch: 8080799 TEMP Diesel 69.4 25.0 mg/kg dry 1	Oil	288		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	F-03, F-16
MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080799 TEMP Diesel Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51.% Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51.% Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 Diesel 263 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Oil <	Surrogate: o-Terphenyl (Surr)		Recovery:	90 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Diesel Oil ND ND 25.0 50.0 mg/kg dry mg/kg dry 1 1 08/16/18 08/16/18 NWTPH-Dx NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Diesel Oil 263 ND 25.0 mg/kg dry mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 <td< td=""><td>MW27-15 (A8H0328-12)</td><td></td><td></td><td></td><td>Matrix: Soil</td><td></td><td>Ba</td><td>tch: 8080799</td><td>TEMP</td></td<>	MW27-15 (A8H0328-12)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Matrix: Soil Batch: 8080799 TEMP Diesel 263 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16	Diesel	ND		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr) Recovery: 51 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-19 (A8H0328-13) Z63 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Diesel 263 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 <th< td=""><td>Oil</td><td>ND</td><td></td><td>50.0</td><td>mg/kg dry</td><td>1</td><td>08/16/18</td><td>NWTPH-Dx</td><td></td></th<>	Oil	ND		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
MW27-19 (A8H0328-13) Matrix: Soil Batch: 8080799 TEMP Diesel Oil 263 ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50% Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50% Limits: 50-150 % 1 08/16/18 NWTPH-Dx	Surrogate: o-Terphenyl (Surr)		Recovery:	51 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Diesel Oil 263 ND 25.0 50.0 mg/kg dry mg/kg dry 1 1 08/16/18 08/16/18 NWTPH-Dx NWTPH-Dx F-13 Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-13 MW27-39 (A8H0328-14) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx TEMP Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 25.0 m	MW27-19 (A8H0328-13)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14) Matrix: Soil Batch: 8080799 TEMP Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW28-19 (A8H0328-15) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 50	Diesel	263		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	F-13
Surrogate: o-Terphenyl (Surr) Recovery: 81 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW27-39 (A8H0328-14) Matrix: Soil Batch: 8080799 TEMP Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW28-19 (A8H0328-15) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	Oil	ND		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
MW27-39 (A8H0328-14) Matrix: Soil Batch: 8080799 TEMP Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW28-19 (A8H0328-15) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx TEMP Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx TEMP	Surrogate: o-Terphenyl (Surr)		Recovery:	81 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Diesel 69.4 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-13, F-15 Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW28-19 (A8H0328-15) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx	MW27-39 (A8H0328-14)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil 65.9 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx F-03, F-16 Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx F-03, F-16 MW28-19 (A8H0328-15) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	Diesel	69.4		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	F-13, F-15
Surrogate: o-Terphenyl (Surr) Recovery: 50 % Limits: 50-150 % 1 08/16/18 NWTPH-Dx MW28-19 (A8H0328-15) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	Oil	65.9		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	F-03, F-16
MW28-19 (A8H0328-15) Matrix: Soil Batch: 8080799 TEMP Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx OI ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	Surrogate: o-Terphenyl (Surr)		Recovery:	50 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx	
Diesel ND 25.0 mg/kg dry 1 08/16/18 NWTPH-Dx Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	MW28-19 (A8H0328-15)				Matrix: Soil		Ba	tch: 8080799	TEMP
Oil ND 50.0 mg/kg dry 1 08/16/18 NWTPH-Dx	Diesel	ND		25.0	mg/kg dry	1	08/16/18	NWTPH-Dx	
	Oil	ND		50.0	mg/kg dry	1	08/16/18	NWTPH-Dx	

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

HydroCon LLC Project: Coleman Wenatchee 314 W 15th Street Suite 300 Project Number: 2017-074 Report ID: Vancouver, WA 98660 Project Manager: Craig Hultgren A8H0328 - 08 21 18 1032											
Diesel and/or Oil Hydrocarbons by NWTPH-Dx											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
MW28-19 (A8H0328-15)				Matrix: Soil		Bat	ch: 8080799	TEMP			
Surrogate: o-Terphenyl (Surr)		Recov	very: 67 %	Limits: 50-150 %	1	08/16/18	NWTPH-Dx				
MW28-25 (A8H0328-16)				Matrix: Soil		Bat	ch: 8080754	TEMP			
Diesel Oil Surrogate: o-Terphenyl (Surr)	ND ND	 Recov	25.6 51.1 pery: 90 %	mg/kg dry mg/kg dry Limits: 50-150 %	1 1 1	08/14/18 08/14/18 <i>08/14/18</i>	NWTPH-Dx NWTPH-Dx <i>NWTPH-Dx</i>				
				Matrix: Soil		Bat	ch: 8080754	TEMP			
Diesel Oil	27.8 ND		25.0 50.0	mg/kg dry mg/kg dry	1	08/14/18 08/14/18	NWTPH-Dx NWTPH-Dx	F-13			
Surrogate: o-Terphenyl (Surr)		Recov	very: 93 %	Limits: 50-150 %	1	08/14/18	NWTPH-Dx				

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

HydroCon LLC		Project	<u>Co</u>	oleman Wenatchee				
314 W 15th Street Suite 300		Project Nu	umber: 20	17-074			<u>Report I</u>	<u>D:</u>
Vancouver, WA 98660		Project Ma	nager: Cr	aig Hultgren			A8H0328 - 08 21	18 1032
		ANALYTICA	L SAM	PLE RESULTS				
Gaso	line Range Hyd	Irocarbons (Be	enzene t	hrough Naphtha	llene) by	NWTPH-G	3x	
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW24-15 (A8H0328-01)				Matrix: Soil		Ba	atch: 8080688	TEMP
Gasoline Range Organics	ND		5.29	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	109 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			93 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW24-22 (A8H0328-02)				Matrix: Soil		Ba	Batch: 8080688	
Gasoline Range Organics	109		5.59	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	111 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			93 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW24-28 (A8H0328-03RE1)				Matrix: Soil		B	atch: 8080732	TEMP
Gasoline Range Organics	179		6.53	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	162 %	Limits: 50-150 %	1	08/14/18	NWTPH-Gx (MS)	S-08
1,4-Difluorobenzene (Sur)			114 %	50-150 %	1	08/14/18	NWTPH-Gx (MS)	
MW24-35 (A8H0328-04)				Matrix: Soil		Batch: 8080688		TEMP
Gasoline Range Organics	19.5		5.72	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	113 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW25-19 (A8H0328-05)				Matrix: Soil		B	atch: 8080688	TEMP
Gasoline Range Organics	ND		6.67	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	108 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			92 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW25-22 (A8H0328-06)				Matrix: Soil		B	atch: 8080688	TEMP
Gasoline Range Organics	6.70		5.62	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	106 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			93 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW25-35 (A8H0328-07)				Matrix: Soil		B	atch: 8080688	TEMP
Gasoline Range Organics	7.98		6.53	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	113 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW26-15 (A8H0328-08)				Matrix: Soil		B	atch: 8080688	ТЕМР
Gasoline Range Organics	ND		6.18	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	

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

HydroCon LLC		Project:	Co	<u>leman Wenatchee</u>				
314 W 15th Street Suite 300		Project Nu	umber: 201	17-074			<u>Report l</u>	<u>ID:</u>
Vancouver, WA 98660		Project Ma	nager: Cra	aig Hultgren			A8H0328 - 08 21	18 1032
		ANALYTICA	L SAMI	PLE RESULTS				
Gase	oline Range Hydr	rocarbons (Be	enzene tl	hrough Naphtha	alene) by	NWTPH-G	ix	
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW26-15 (A8H0328-08)				Matrix: Soil		Ва	atch: 8080688	TEMP
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	110 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW26-19 (A8H0328-09)				Matrix: Soil		Ва	atch: 8080688	TEMP
Gasoline Range Organics	7.69		5.63	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	111 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW26-29 (A8H0328-10)				Matrix: Soil		Batch: 8080688		TEMP
Gasoline Range Organics	33.4		6.27	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	113 %	Limits: 50-150 %	1	08/13/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/13/18	NWTPH-Gx (MS)	
MW26-33 (A8H0328-11)				Matrix: Soil		Ва	atch: 8080733	TEMP
Gasoline Range Organics	ND		7.39	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	108 %	Limits: 50-150 %	1	08/14/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			94 %	50-150 %	1	08/14/18	NWTPH-Gx (MS)	
MW27-15 (A8H0328-12)				Matrix: Soil		Ва	atch: 8080733	TEMP
Gasoline Range Organics	ND		6.83	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	108 %	Limits: 50-150 %	1	08/14/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/14/18	NWTPH-Gx (MS)	
MW27-19 (A8H0328-13)				Matrix: Soil		Ва	atch: 8080733	TEMP
Gasoline Range Organics	126		6.16	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	138 %	Limits: 50-150 %	1	08/14/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			96 %	50-150 %	1	08/14/18	NWTPH-Gx (MS)	
MW27-39 (A8H0328-14)				Matrix: Soil		Ва	atch: 8080733	TEMP
Gasoline Range Organics	ND		6.18	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	109 %	Limits: 50-150 %	1	08/14/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/14/18	NWTPH-Gx (MS)	
MW28-19 (A8H0328-15)				Matrix: Soil		Ва	atch: 8080733	TEMP
Gasoline Range Organics	ND		5.88	mg/kg dry	50	08/14/18	NWTPH-Gx (MS)	

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

HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

ANALYTICAL SAMPLE RESULTS

Gasoli	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
MW28-19 (A8H0328-15)				Matrix: Soil		Ва	tch: 8080733	TEMP			
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recovery:	109 % 94 %	Limits: 50-150 % 50-150 %		08/14/18 08/14/18	NWTPH-Gx (MS) NWTPH-Gx (MS)				
MW28-25 (A8H0328-16)				Matrix: Soil		Ва	itch: 8080688	ТЕМР			
Gasoline Range Organics	ND		7.04	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)				
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recovery:	105 % 94 %	Limits: 50-150 % 50-150 %		08/13/18 08/13/18	NWTPH-Gx (MS) NWTPH-Gx (MS)				
MW28-39 (A8H0328-17)				Matrix: Soil		Ba	itch: 8080688	TEMP			
Gasoline Range Organics	28.2		5.23	mg/kg dry	50	08/13/18	NWTPH-Gx (MS)				
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recovery.	: 113 % 96 %	Limits: 50-150 % 50-150 %	5 1 5 1	08/13/18 08/13/18	NWTPH-Gx (MS) NWTPH-Gx (MS)				

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

HydroCon LLC		Project:	Col	eman Wenatchee				
314 W 15th Street Suite 300		Project Nur	mber: 201	7-074			<u>Repor</u>	<u>t ID:</u>
Vancouver, WA 98660		Project Man	ager: Cra	aig Hultgren			A8H0328 - 08	21 18 1032
		ANALYTICA	L SAMF	PLE RESULTS				
		BTEX Comp	ounds b	y EPA 8260C				
	Sample	Detection R	eporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW24-15 (A8H0328-01)				Matrix: Soil		Ba	tch: 8080688	TEMP
Benzene	ND		0.0106	mg/kg dry	50	08/13/18	5035A/8260C	
Toluene	ND		0.0529	mg/kg dry	50	08/13/18	5035A/8260C	
Ethylbenzene	ND		0.0265	mg/kg dry	50	08/13/18	5035A/8260C	Q-37
Xylenes, total	ND		0.0794	mg/kg dry	50	08/13/18	5035A/8260C	Q-37
Surrogate: 1.4-Difluorobenzene (Surr)		Recovery:	99 %	Limits: 80-120 %	1	08/13/18	5035A/8260C	
Toluene-d8 (Surr)			96 %	80-120 %	1	08/13/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/13/18	5035A/8260C	
MW24-22 (A8H0328-02)		Matrix: Soil Batch: 8080688					TEMP	
Benzene	ND		0.0112	mg/kg dry	50	08/13/18	5035A/8260C	
Toluene	ND		0.0559	mg/kg dry	50	08/13/18	5035A/8260C	
Ethylbenzene	ND		0.0279	mg/kg dry	50	08/13/18	5035A/8260C	
Xylenes, total	0.110		0.0838	mg/kg dry	50	08/13/18	5035A/8260C	
Surrogate: 1 4-Difluorobenzene (Surr)		Recovery:	98 %	Limits: 80-120 %	1	08/13/18	5035A/8260C	
Toluene-d8 (Surr)		need tery.	97%	80-120 %	1	08/13/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/13/18	5035A/8260C	
MW24-28 (A8H0328-03RE1)				Matrix: Soil	Batch: 8080732			TEMP
Benzene	ND		0.0131	mg/kg dry	50	08/14/18	5035A/8260C	
Toluene	ND		0.0653	mg/kg dry	50	08/14/18	5035A/8260C	
Ethylbenzene	ND		0.0326	mg/kg dry	50	08/14/18	5035A/8260C	
Xylenes, total	ND		0.0979	mg/kg dry	50	08/14/18	5035A/8260C	
Surrogate: 1 4-Difluorobenzene (Surr)		Recovery:	98 %	Limits: 80-120 %	1	08/14/18	50354/8260C	
Tolugue. dl (Surr)		Recovery.	94%	20-120 %	1	08/14/18	50354/8260C	
4-Bromofluorobenzene (Surr)			106 %	80-120 %	1	08/14/18	5035A/8260C	
				Matrix: Soil		Ba	tch: 8080688	TEMP
Benzene	ND		0.0114	mø/kø dry	50	08/13/18	5035A/8260C	
Toluene	ND		0.0572	mg/kg drv	50	08/13/18	5035A/8260C	
Ethylbenzene	ND		0.0286	mg/kg drv	50	08/13/18	5035A/8260C	
Xylenes, total	0.117		0.0859	mg/kg drv	50	08/13/18	5035A/8260C	
Surrogate: 1 4-Diffuorohenzene (Surr)		Recoversi	99 %	Limits: 20-120 %	1	08/13/18	50354/82600	
Toluono de (Sure)		Recovery.	07 %	20 120 /0	1	08/12/18	50354/82600	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/13/18	5035A/8260C	
MW25-19 (A8H0328-05)				Matrix: Soil		Ва	tch: 8080688	TEMP
Benzene	ND		0.0133	mg/kg drv	50	08/13/18	5035A/8260C	
							-	

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

314 W 15h Street Saile 300 Project Number: 2017-074 Project Namager: Craig Italigren Report ID: ASH0328 - 08 21 18 1032 314 W 15h Street Saile 300 Project Namager: Craig Italigren Sample Date: Report ID: ASH0328 - 08 21 18 1032 510 Detection Batch: Source Batch: Source Notes: 611 Detection Notes: Matrix: Soil Date: Analyzed Method Ref. Notes: 612 Detection ND 0.0667 mgke dry 50 081/318 5035A8260C 612 Detection ND 0.0334 mgke dry 50 081/318 5035A8260C 613 Detection ND 0.0334 mgke dry 50 081/318 5035A8260C 614 Detection ND 0.0102 mgke dry 50 081/318 5035A8260C 614 Detection ND 0.0112 mgke dry 50 081/318 5035A8260C 614 Detection ND 0.0122 mgke dry 50 081/318 5035A8260C 704 Detection <t< th=""><th>HydroCon LLC</th><th></th><th>Project</th><th>: <u>Col</u></th><th>eman Wenatchee</th><th></th><th></th><th></th><th></th></t<>	HydroCon LLC		Project	: <u>Col</u>	eman Wenatchee						
Nanouver, WA 98660 Project Manager: Craig Hultgren ABH0328 - 08 21 18 1032 JANALYTICAL SAMPLE RESULTS Janabyte BTEX Computeds by EPA 8260C Analyte Batch: 8000688 Temp Janabyte Batch: 8000688 Temp MW25-19 (ABH0328-05) Batch: 8000688 Temp Toluene ND 0.0067 mg/kg dry 50 081/318 5035A8200C Stringer, 1-4-Diffuendencene (Surr) Recovery: 97.% Limit: 81/20 % 1 081/318 5035A8200C Stringer, 1-4-Diffuendencene (Surr) Recovery: 97.% Limit: 81/20 % 1 081/318 5035A8200C Stringer, 1-4-Diffuendencene (Surr) Recovery: 97.% Limit: 81/20 % 1 081/318 5035A8200C Stringer, 1-4-Diffuendencene (Surr) Recovery: 97.% Limit: 81/20 % 1 081/318 5035A8200C Stringer, 1-4-Diffuendencene (Surr) Recovery: 97.% Limit: 81/20 % 1 681/318 5035A8200C <t< th=""><th>314 W 15th Street Suite 300</th><th></th><th>Project Nu</th><th>umber: 201</th><th>7-074</th><th></th><th></th><th><u>R</u>eport</th><th>ID:</th></t<>	314 W 15th Street Suite 300		Project Nu	umber: 201	7-074			<u>R</u> eport	ID:		
ANALYTICAL SAMPLE RESULTS Date Analyte Date Bargle Detection Reporting Limit Date Dilution Date Analyte Date Method Ref. Notes MV25-19 (ABH0328-05) Matrix: Soil Batch: 8000688 TEMP Dilution ND 0.0667 mgkg dry 90 90 001318 5035A820C Strenge ND 0.0314 mgkg dry 97.5% 50 081318 5035A820C Strenge I 0.0314 mgkg dry 97.5% 60/12.7% 0.07138 5055A820C MV25-22 (ABH0328-05) Matrix: Sol Batch: 8080688 TEMP Bearanic ND 0.0112 mgkg dry 97.5% 50 0813118 5035A820C Tother 6.0007 Matrix: Soil Batch: 8080688 TEMP Bearanic ND 0.0112 mgkg dry 847.9 50 0813118 5035A820C Strenge Matrix: Soil Batch:	Vancouver, WA 98660		Project Ma	unager: Cra	nig Hultgren			A8H0328 - 08 2	1 18 1032		
BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reporting Limit Dilution Date Analyzed Method Ref. Notes MW25-19 (A8H0328-05) Matrix: Soil Batch: 8080688 TEMP Toluane ND 0.0667 mg/k g dy 50 08/13/18 5015/A8260C Ethylbonzone ND 0.034 mg/k g dy 50 08/13/18 5015/A8260C Surrogate 1,4-Diffuorebarcent (Surr) Recovery: 69 % Linuit: 80.429 % 1 08/13/18 5015/A8260C MW25-22 (A8H0328-06) Recovery: 69 % Linuit: 80.429 % 1 08/13/18 5015/A8260C MW25-22 (A8H0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mg/k g dy 50 08/13/18 5015/A8260C Surrogate 1, 4-Diffuorebarcene (Surr) Recovery: 69 % Linuit: 80-120 % 1 08/13/18 5015/A8260C Surrogate 1, 4-Diffuorebarcene (Surr) Recovery: 69 % Linuit: 80-120 % <td< th=""><th></th><th></th><th>ANALYTICA</th><th>AL SAMP</th><th>LE RESULTS</th><th></th><th></th><th></th><th></th></td<>			ANALYTICA	AL SAMP	LE RESULTS						
Analyte Sample Result Detection Limit Reporting Limit Diation Date Analyzed Method Ref. Analyzed Notes MW25-19 (A8H0328-05) Matrix: Soil Batch: 8080688 TEMP Toluene ND 0.0667 mgkg dy 50 08/13/18 5053A/8200C Ethylbenzene ND 0.0334 mgkg dy 50 08/13/18 5053A/8200C Swrogue: 1.4-Difluorobenzene (Surr) ND 0.010 mgkg dy 50 08/13/18 5053A/8200C Swrogue: 1.4-Difluorobenzene (Surr) 0.0112 mgkg dy 50 08/13/18 5053A/8200C MW25-22 (A8H0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mgkg dy 50 08/13/18 5053A/8200C Surrogue: 1.4-Difluorobenzene (Surr) ND 0.0123 mgkg dy 50 08/13/18 5053A/8200C Surrogue: 1.4-Difluorobenzene (Surr) Recovery: 99% I 08/13/18 5053A/8200C			BTEX Comp	oounds b	y EPA 8260C						
Analyte Result Limit Limit Umis Dilution Analyzed Method Ref. Notes MW25-19 (A8H0328-05) Matrix: Soil Batch: 8080688 TEMP Toluene ND 0.0667 mg/kg dry 50 08/13/18 5035A/8200C Ethylbenzene ND 0.0100 mg/kg dry 50 08/13/18 5035A/8200C Surraguet: 1-00/134 Limits 80/120 % 1 08/13/18 5035A/8200C Surraguet: 1-00/134 Limits 80/120 % 1 08/13/18 5035A/8200C MW25-22 (A8H0328-05) Recovery: 97% 40/120 % 1 08/13/18 5035A/8200C Toluene ND 0.0162 mg/kg dry 50 08/13/18 5035A/8200C Toluene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8200C Stranget: IAB 0.0131 mg/kg dry 50 08/13/18 5035A/8200C		Sample	Detection	Reporting			Date				
NW25-19 (A8H0328-05) Matrix: Soil Batch: 8080688 TEMP Toluene ND 0.0667 mg/kg dry 50 08/13/18 5035A/8200C Ehylbenzene ND 0.0334 mg/kg dry 50 08/13/18 5035A/8200C Surget: 1.4.10/humbenzene (Surr) 0.100 mg/kg dry 50 08/13/18 5035A/8200C MV25-22 (A8H0328-06) Recovery: 97.5 80-120.5 1 08/13/18 5035A/8200C MV25-22 (A8H0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035A/8200C Surget: 1.410/humbenzene (Surr) 0.0281 mg/kg dry 50 08/13/18 5035A/8200C Surget: 1.410/humbenzene (Surr) 0.0281 mg/kg dry 50 08/13/18 5035A/8200C Surget: 1.410/humbenzene (Surr) 0.0281 mg/kg dry 50 08/13/18 5035A/8200C	Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes		
Toluene ND 0.0667 mg/kg dry 50 0.8/13/18 5035A/8260C Ehylbenzene ND 0.0334 mg/kg dry 50 0.8/13/18 5035A/8260C Surrogut: I-D/flownbenzene (Surr) Recovery: 99 % Louis: 80/19 % I 0.8/13/18 5035A/8260C Surrogut: I-D/flownbenzene (Surr) Recovery: 99 % Louis: 80/19 % I 0.8/13/18 5035A/8260C W25-22 (ABH0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mg/kg dry 50 0.8/13/18 5035A/8260C Ethylbenzene ND 0.0281 mg/kg dry 50 0.8/13/18 5035A/8260C Surrogut: (A-D/flownbenzene (Surr) ND 0.0281 mg/kg dry 50 0.8/13/18 5035A/8260C Surrogut: (A-D/flownbenzene (Surr) Recovery: 99 % Louis: 80/120 % 0 80/13/18 <td>MW25-19 (A8H0328-05)</td> <td></td> <td></td> <td></td> <td>Matrix: Soil</td> <td></td> <td>Ba</td> <td>tch: 8080688</td> <td>TEMP</td>	MW25-19 (A8H0328-05)				Matrix: Soil		Ba	tch: 8080688	TEMP		
Ethylbenzene ND 0.0334 mg/kg dry 80 0.00 08/13/18 5035A/8260C Surrogen: 1-D0/luorobenzene (Surr) Recover: 96 % 80/120 % 1 00/13/16 5035A/8260C W25-22 (A8H0328-06) Recover: 97 % 80-120 % 1 00/13/16 5035A/8260C W25-22 (A8H0328-06) Matrix: Sol 0.81/3/18 5035A/8260C TEMP Recover: 97 % 80-120 % 1 00/13/18 5035A/8260C MV25-22 (A8H0328-06) Matrix: Sol 0.81/3/18 5035A/8260C TEMP Reveree ND 0.012 mg/kg dry 50 0.81/3/18 5035A/8260C Ethylbenzene ND 0.0281 mg/kg dry 50 0.81/3/18 5035A/8260C Surrogent: /.4.D0/floorbenzene (Surr) /.012 mg/kg dry 50 0.81/3/18 5035A/8260C M25.35 (A8H0328-07) Recovery: 97 % Limit: 80-120 % 1 0.81/3/18	Toluene	ND		0.0667	mg/kg dry	50	08/13/18	5035A/8260C			
Nplenes, total ND 0.100 mg/kg dry 50 0.8/13/18 5035A.8260C Surrogate: 1.4-D/fihambenzen (Surr) 99 % 1 0.8/13/18 5035A.8260C 4-Broung/humbenzen (Surr) 97 % 80-120 % 1 0.8/13/18 5035A.8260C MW25-22 (A8H0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mg/kg dry 50 0.8/13/18 5035A.8260C Toluene ND 0.0512 mg/kg dry 50 0.8/13/18 5035A.8260C Surgate: 1.4-Diffuorobenzene (Surr) ND 0.0821 mg/kg dry 50 0.8/13/18 5035A.8260C Surgate: 1.4-Diffuorobenzene (Surr) ND 0.0821 mg/kg dry 50 0.8/13/18 5035A.8260C Valuenes ND 0.0821 mg/kg dry 50 0.8/13/18 5035A.8260C Valuenes ND 0.0131 mg/kg dry 50 0.8/	Ethylbenzene	ND		0.0334	mg/kg dry	50	08/13/18	5035A/8260C			
Surrogate: 1.4-Difluorobenzene (Surr) Inheared 8 (Surr) Recovery: 99 % 96 % Limits: 80-120 % 1 08/13/18 5035.48260C MV25-22 (ABH0328-06) 97 % 80-120 % 1 08/13/18 5035.48260C MV25-22 (ABH0328-06) Matrix: Soil Batch: 8086688 TEMP Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035.48260C Toluene ND 0.0521 mg/kg dry 50 08/13/18 5035.48260C Xylenes, total ND 0.0821 mg/kg dry 50 08/13/18 5035.48260C Surrogaie: 1.4-Difluorobenzene (Surr) Recovery: 97 % 80-120 % 1 08/13/18 5035.48260C MV25-35 (ABH0328-07) Recovery: 97 % 80-120 % 1 08/13/18 5035.48260C Surrogaie: 1.4-Difluorobenzene (Surr) 0.0053 mg/kg dry 50 08/13/18 5035.48260C Toluene	Xylenes, total	ND		0.100	mg/kg dry	50	08/13/18	5035A/8260C			
Toluene-d8 (Surr) 96 % 89-120 % 1 98/3/18 5035.4/8260C MW25-22 (A8H0328-06) Matrix: Sol Batch: 8008068 TEMP Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035.4/8260C Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035.4/8260C Ethylborene ND 0.0281 mg/kg dry 50 08/13/18 5035.4/8260C Surrogær: 1.4.02[harnbanzene (Surr) Recover: 97 % 80-120 % 1 08/13/18 5035.4/8260C Yelnes, total ND 0.0281 mg/kg dry 50 08/13/18 5035.4/8260C WW25-35 (A8H0328-07) Recover: 97 % 80-120 % 1 08/13/18 5035.4/8260C Surrogate: 1.407 % Batch: 8008068 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1.407(harohenzene (Surr) ND	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	<i>: 99 %</i>	Limits: 80-120 %	1	08/13/18	5035A/8260C			
4-Brome/Burrobenzene (Surr) 97 % 80-120 % 1 08/13/18 5035.4/8260C MW25-22 (A8H0328-06) ND 0.0112 mg/kg dry 50 08/13/18 5035.4/8260C Benzene ND 0.0562 mg/kg dry 50 08/13/18 5035.4/8260C Stringette: 1.4-Diffuorabactene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C Surrogette: 1.4-Diffuorabactene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C MW25-35 (A8H0328-07) Matrix: Soll Batch: 8035.4/8260C TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035.4/8260C Surrogette: 1.4-Diffuorabactene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C Surrogette: ND 0.0131 mg/kg dry 50 08/13/18 5035.4/8260C Surroge	Toluene-d8 (Surr)		-	96 %	80-120 %	1	08/13/18	5035A/8260C			
MW25-22 (A8H0328-06) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0281 mg/kg dry 50 08/13/18 5035A/8260C Zylenes, total ND 0.0281 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Diftuorobenzene (Surr) Recovery: 97% 1 08/13/18 5035A/8260C Surrogate: 1.4-Diftuorobenzene (Surr) Recovery: 97% 80-120 % 1 08/13/18 5035A/8260C MW25-35 (A8H0328-07) Matrix: Soil Batch: 8006088 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Yelnes, total ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) 0.0226 mg/kg dry 50 08/13/18 5035A/826	4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	08/13/18	5035A/8260C			
Benzene ND 0.0112 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0281 mg/kg dry 50 08/13/18 5035A/8260C Surlogets: 1,4-Difhuorobenzene (Surr) ND 0.0281 mg/kg dry 50 08/13/18 5035A/8260C Surrogets: 1,4-Difhuorobenzene (Surr) Recovery: 97 % 80-120 % 1 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) Recovery: 97 % 80-120 % 1 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0326 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0326 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) 0.0326	MW25-22 (A8H0328-06)		Matrix: Soil Batch: 8080688 TEMP								
Toluene ND 0.0562 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0281 mg/kg dry 50 08/13/18 5035A/8260C Surgaste: 1.4-Diffuorobenzene (Surr) Recovery: 9% Limits: 80-120 % 1 08/13/18 5035A/8260C Surgaste: 1.4-Diffuorobenzene (Surr) Recovery: 9% Limits: 80-120 % 1 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) Recovery: 97% Sol-120 % 1 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0326 mg/kg dry 50 08/13/18 5035A/8260C Sylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035A/8	Benzene	ND		0.0112	mg/kg dry	50	08/13/18	5035A/8260C			
Ethylbenzene Xylenes, total ND 0.0843 mg/kg dry mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) Tolane-48 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW25-35 (A8H0328-07) Recovery: 99 % Limits: Soll Batch: 8080688 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) ND 0.0132 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C <t< td=""><td>Toluene</td><td>ND</td><td></td><td>0.0562</td><td>mg/kg dry</td><td>50</td><td>08/13/18</td><td>5035A/8260C</td><td></td></t<>	Toluene	ND		0.0562	mg/kg dry	50	08/13/18	5035A/8260C			
Xylenes, total ND 0.0843 mg.kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Tohuene-d8 (Surr) +-Bromofluorobenzene (Surr) Recovery: 97 % 80-120 % 1 08/13/18 5035A/8260C MWZ5-35 (A8H0328-07) Matrix: Soil 08/13/18 5035A/8260C TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) TeMP 0.0653 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % 80-120 % 1	Ethylbenzene	ND		0.0281	mg/kg dry	50	08/13/18	5035A/8260C			
Surrogate: 1.4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % 97 % 80-120 % Limits: 80-120 % 1 1 08/13/18 5035.4/8260C MW25-35 (A8H0328-07) Matrix: Soil Batch: 80.60888 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035.4/8260C Kylenes, total ND 0.0236 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1.4-Difluorobenzene (Surr) ND 0.0236 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035.4/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035.4/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50<	Xylenes, total	ND		0.0843	mg/kg dry	50	08/13/18	5035A/8260C			
Induce-d8 (Surr) 97 % 80-120 % 1 08/13/18 5035.4/8260C MW25-35 (A8H0328-07) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0131 mg/kg dry 50 0.8/13/18 5035.4/8260C Toluene ND 0.0131 mg/kg dry 50 0.8/13/18 5035.4/8260C Toluene ND 0.0533 mg/kg dry 50 0.8/13/18 5035.4/8260C Surrogate: 1.4.Difluorobenzene (Surr) ND 0.0326 mg/kg dry 50 0.8/13/18 5035.4/8260C Surrogate: 1.4.Difluorobenzene (Surr) Recovery: 100 % 80-120 % 1 0.8/13/18 5035.4/8260C 4-Bromofluorobenzene (Surr) 0.0979 mg/kg dry 50 0.8/13/18 5035.4/8260C 4-Bromofluorobenzene (Surr) 0.0124 mg/kg dry 50 0.8/13/18 5035.4/8260C Toluene ND 0.0124 mg/kg dry 50 0	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	<i>: 99 %</i>	Limits: 80-120 %	1	08/13/18	5035A/8260C			
4-Bromafluorobenzene (Surr) 101 % 80-120 % 1 08/13/18 5035.4/8260C WW25-35 (A8H0328-07) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035.4/8260C Toluene ND 0.0053 mg/kg dry 50 08/13/18 5035.4/8260C Ethylbenzene ND 0.0326 mg/kg dry 50 08/13/18 5035.4/8260C Xylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035.4/8260C Toluene-d8 (Surr) 0.0979 mg/kg dry 50 08/13/18 5035.4/8260C WW26-15 (A8H0328-08) Recovery: 100 % 80-120 % 1 08/13/18 5035.4/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035.4/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035.4/8260C	Toluene-d8 (Surr)			97 %	80-120 %	1	08/13/18	5035A/8260C			
MW25-35 (A8H0328-07) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0131 mg/kg dry 50 0.8/13/18 5035A/8260C Toluene ND 0.0653 mg/kg dry 50 0.8/13/18 5035A/8260C Ethylbenzene ND 0.0226 mg/kg dry 50 0.8/13/18 5035A/8260C Xylenes, total ND 0.0979 mg/kg dry 50 0.8/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Recovery: 100 % Limits: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Strongate: 1,4-Difluorobenzene (Surr) ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C	4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/13/18	5035A/8260C			
Benzene ND 0.0131 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0653 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Recovery: 100 % 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 10	MW25-35 (A8H0328-07)				Matrix: Soil		Ba	tch: 8080688	TEMP		
Toluene ND 0.0653 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0326 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C 0.0979 mg/kg dry 50 08/13/18 5035A/8260C 7bluene-d8 (Surr) 95 % 80-120 % 1 08/13/18 5035A/8260C 100 % Recovery: 100 % 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 %	Benzene	ND		0.0131	mg/kg dry	50	08/13/18	5035A/8260C			
Ethylbenzene ND 0.0326 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Toluene-d8 (Surr) 4-Bromoffuorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 08/13/18 5035A/8260C WW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 08/13/18 5035A/8260C 4-Bromofluoroben	Toluene	ND		0.0653	mg/kg dry	50	08/13/18	5035A/8260C			
Xylenes, total ND 0.0979 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C WW26-19 (A8H0328-09) Recovery: 100 %	Ethylbenzene	ND		0.0326	mg/kg dry	50	08/13/18	5035A/8260C			
Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 96 % <td>Xylenes, total</td> <td>ND</td> <td></td> <td>0.0979</td> <td>mg/kg dry</td> <td>50</td> <td>08/13/18</td> <td>5035A/8260C</td> <td></td>	Xylenes, total	ND		0.0979	mg/kg dry	50	08/13/18	5035A/8260C			
Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 95 % 100 % 80-120 % 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits: 80-120 %	1	08/13/18	5035A/8260C			
4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/13/18 5035A/8260C MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0	Toluene-d8 (Surr)			95 %	80-120 %	1	08/13/18	5035A/8260C			
MW26-15 (A8H0328-08) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND <td>4-Bromofluorobenzene (Surr)</td> <td></td> <td></td> <td>100 %</td> <td>80-120 %</td> <td>1</td> <td>08/13/18</td> <td>5035A/8260C</td> <td></td>	4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	08/13/18	5035A/8260C			
Benzene ND 0.0124 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene	MW26-15 (A8H0328-08)				Matrix: Soil		Ва	tch: 8080688	ТЕМР		
Toluene ND 0.0618 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 8000 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	Benzene	ND		0.0124	mg/kg dry	50	08/13/18	5035A/8260C			
Ethylbenzene ND 0.0309 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) P6 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) P6 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C	Toluene	ND		0.0618	mg/kg dry	50	08/13/18	5035A/8260C			
Xylenes, total ND 0.0928 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C 99 % 80-120 % 1 08/13/18 5035A/8260C 99 % 80-120 % 1 08/13/18 5035A/8260C 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	Ethylbenzene	ND		0.0309	mg/kg dry	50	08/13/18	5035A/8260C			
Surrogate: I,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 100 % 96 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) 99 % 80-120 % 1 08/13/18 5035A/8260C Benzene Toluene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C String Batch: 8080688 TEMP Benzene Toluene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C	Xylenes, total	ND		0.0928	mg/kg dry	50	08/13/18	5035A/8260C			
Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) 96 % 99 % 80-120 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene Toluene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C MD 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits: 80-120 %	1	08/13/18	5035A/8260C			
4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene Toluene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C MD 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	Toluene-d8 (Surr)			96 %	80-120 %	1	08/13/18	5035A/8260C			
MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/13/18	5035A/8260C			
Benzene ND 0.0113 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	MW26-19 (A8H0328-09)				Matrix: Soil		Ва	tch: 8080688	ТЕМР		
Toluene ND 0.0563 mg/kg dry 50 08/13/18 5035A/8260C	Benzene	ND		0.0113	mg/kg dry	50	08/13/18	5035A/8260C			
	Toluene	ND		0.0563	mg/kg dry	50	08/13/18	5035A/8260C			

Apex Laboratories

Assa A Someringhini

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.



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314 W 15th Street Suite 300 Vancouver, WA 98660 Project Number: 2017-074 Project Manager: Craig Hulgren Report ID: ABH0328 - 08 21 18 10 ABH0328 - 08 21 18 10 ANALXTICAL SAMPLE RESULTS Detection Analyte BTEX Compounds by EPA 8260C MW28-19 (A8H0328-09) Detection Ethylbenzene ND O 0282 mg/kg dry 50 08/13/18 S035A8260C Surged for MW28-19 (A8H0328-09) Matrix: Soil Batch: 8090688 T Ethylbenzene ND 0.0282 mg/kg dry 50 08/13/18 S035A8260C W26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T Surged ry 50 0.01125 mg/kg dry 50 08/13/18 S035A8260C Surged ry 50 0.0125 mg/kg dry 50 08/13/18 S035A8260C <	
Vancouver, WA 98660 Project Manager: Craig Hultgren ASHB328 - 08 21 18 10 ANALYTICAL SAMPLE RESULTS BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reporting Limit Date Analyzed Method Ref. Analyzed No MWZ6-19 (A8H0328-09) Matrix: Soil Batch: 8080688 T Ethylbenzene ND 0.0282 mg/kg dry 50 08/13/18 5035A/8260C Surgegite: 1.4D(floornbergene (Surr) Tolaner-48 (Surr) Recovery: 100 % Limit: 80-120 % 1 08/13/18 5035A/8260C MWZ6-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T Bernzene ND 0.0125 rng/kg dry 50 08/13/18 5035A/8260C MWZ6-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T Bernzene ND 0.0125 rng/kg dry 50 08/13/18 5035A/8260C Surgegite: 1.4D(floornbergene (Surr) Recovery: 100 % 80-120 % 1 08/13/18	314 W 15th Street Suite 300
ANALYTICAL SAMPLE RESULTS BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reporting Limit Date Units Date Dilution Analyzed Method Ref. NC MW26-19 (A8H0328-09) Matrix: Soil Batch: 8000688 T Ethylbenzene ND 0.0282 mg/kg dry 50 08/13/18 5035A8200C Surrogate: 1,4-Difhuorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A8200C Surrogate: 1,4-Difhuorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A8200C W26-29 (A8H0328-10) Matrix: Soil Batch: 8008068 T Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A8200C Surrogate: 1,4-Difhuorobenzene (Surr) ND 0.0125 mg/kg dry 50 08/13/18 5035A8200C Surrogate: 1,4-Difhuorobenzene (Surr) ND 0.0125 mg/kg dry 50 08/13/18 5035A8200C	Vancouver, WA 98660
BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reporting Limit Date Units Date Dilution Analyzed Analyzed Method Ref. Nalyzed No. MW26-19 (A8H0328-09) Matrix: Soll Batch: 8009088 T Ethylbenzene ND 0.0282 mg/kg dry 50 08/13/18 5035A/8260C Surgage: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Toluene-d8 (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 80080688 T Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Surgage: 1.4-Difhuorobenzene (Surr) ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Surga	
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Analyte Result Limit Limit Units Dilution Analyzed Method Ref. Nc MW26-19 (A8H0328-09) Matrix: Soil Batch: 8080688 T Ethylbenzene ND 0.0282 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) Limits: Sol 20 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Strypate: I.4-Diffuorobenzene (Surr) 0.0217 mg/kg dry 50 08/13/18 5035A/8260C Yetnes, total ND 0.0217 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: I.4-Difuorobenzene (Surr) 0.0341 mg/kg dry 50 08/13/18 5035A/8260C<	
MWZ6-19 (A8H0328-09) Matrix: Soil Batch: 8080683 n Ethylbenzene Xylenes, total ND 0.0282 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80120 % 1 08/13/18 5035A/8260C MWZ6-29 (A8H0328-10) Recovery: 100 % Limits: 80120 % 1 08/13/18 5035A/8260C MWZ6-29 (A8H0328-10) Matrix: Soil Batch: 8080688 n Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Stylenes, total ND 0.0627 mg/kg dry 50 08/13/18 5035A/8260C Surogate: L4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Surogate: L4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C Toluene ND	Analyte
Eihylbenzene ND 0.0282 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0845 mg/kg dry 50 08/13/18 5035A/8260C Surgate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limit: 80-120 % 1 08/13/18 5035A/8260C MW26-29 (ABH0328-10) Batch: 808200 1 08/13/18 5035A/8260C MW26-29 (ABH0328-10) Matrix: Sol 08/13/18 5035A/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % 80-120 % 1 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) 70	W26-19 (A8H0328-09)
Xylenes, total ND 0.0845 mg/kg dry 50 08/13/18 5035A/8260C Surrogatte: 1,4-Diffuorobenzene (Surr) Toluene-d8 (Surr) 4-Bromoffuorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) 99 % 80-120 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 T Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0217 mg/kg dry 50 08/13/18 5035A/8260C Kylenes, total ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Imits: 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Recovery: 100 % 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Recovery: 97 %	Ethylbenzene
Surrogate: 1.4-Difluorobenzene (Surr) Toluene-d8 (Surr) Recovery: 100 % Linits: 80-120 % 1 08/13/18 5035.4/8260C 4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035.4/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 1 Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035.4/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035.4/8260C Ethylbenzene ND 0.0125 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035.4/8260C Xylenes, total ND 0.0941 mg/kg dry 50 08/13/18 5035.4/8260C W26-33 (A8H0328-11) Recovery: 100 % 80-120 % 1 08/13/18 5035.4/8260C Foluene ND	Xylenes, total
Toluene-d8 (Surr) 96 % 80-120 % 1 08/13/18 5035A/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 n Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0627 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 14-Difluorobenzene (Surr) Recovery: 100% & 1 08/13/18 5035A/8260C W26-33 (A8H0328-11) Recovery: 100% 80-120 % 1 08/13/18 5035A/8260C Toluene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)
4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/13/18 5035.4/8260C MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 1 Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035.4/8260C Toluene ND 0.0627 mg/kg dry 50 08/13/18 5035.4/8260C Ethylbenzene ND 0.0314 mg/kg dry 50 08/13/18 5035.4/8260C Xylenes, total ND 0.0941 mg/kg dry 50 08/13/18 5035.4/8260C Toluene-d8 (Storr) 0.0941 mg/kg dry 50 08/13/18 5035.4/8260C MW26-33 (A8H0328-11) Recovery: 100 % 80-120 % 1 08/13/18 5035.4/8260C Toluene-d8 (Storr) 0.0148 mg/kg dry 50 08/14/18 5035.4/8260C Fubylbenzene ND 0.0148 mg/kg dry 50 08/14/18 5035.4/8260C Toluene	Toluene-d8 (Surr)
MW26-29 (A8H0328-10) Matrix: Soil Batch: 8080688 n Benzene ND 0.0125 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0627 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0941 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Diffuorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 08/13/18 5035A/8260C 97% 80-120% 1 08/13/18 5035A/8260C 100% 80-120% 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Yelenes, total ND 0.0369 mg/kg dry	4-Bromofluorobenzene (Surr)
Benzene ND 0.0125 mg/kg dry 50 0.8/13/18 5035A/8260C Toluene ND 0.0627 mg/kg dry 50 0.8/13/18 5035A/8260C Ethylbenzene ND 0.0314 mg/kg dry 50 0.8/13/18 5035A/8260C Xylenes, total ND 0.0941 mg/kg dry 50 0.8/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 0.8/13/18 5035A/8260C 0.0941 mg/kg dry 50 0.8/13/18 5035A/8260C 0.0941 mg/kg dry 50 0.8/13/18 5035A/8260C 0.0941 mg/kg dry 50 0.8/14/18 5035A/8260C 0.0148 mg/kg dry 50 0.8/14/18 5035A/8260C Toluene ND 0.0369 mg/kg dry 50 0.8/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene	W26-29 (A8H0328-10)
Toluene ND 0.0627 ng/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0314 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total ND 0.0941 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Recovery: 100% Limits: 80-120% 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 80-120% 1 08/13/18 5035A/8260C 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Recovery: 97% 80-120% 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.01369 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Diffuorobenzene (Surr) Recovery: 99%	Benzene
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Xylenes, total ND 0.0941 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) 97 % 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/14/18	Ethylbenzene
Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 100 % 97 % Limits: 80-120 % 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18	Xylenes, total
Toluene-d8 (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.0369 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) MD 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Mutrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)
4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/13/18 5035A/8260C MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 1 Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0369 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C <t< td=""><td>Toluene-d8 (Surr)</td></t<>	Toluene-d8 (Surr)
MW26-33 (A8H0328-11) Matrix: Soil Batch: 8080733 T Benzene ND 0.0148 mg/kg dry 50 0.8/14/18 5035A/8260C Toluene ND 0.0739 mg/kg dry 50 0.8/14/18 5035A/8260C Ethylbenzene ND 0.0369 mg/kg dry 50 0.8/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 0.8/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 0.8/14/18 5035A/8260C A-Bromofluorobenzene (Surr) 97 % 80-120 % 1 0.8/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 0.8/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 0.8/14/18 5035A/8260C Ethylbenzene <t< td=""><td>4-Bromofluorobenzene (Surr)</td></t<>	4-Bromofluorobenzene (Surr)
Benzene ND 0.0148 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0739 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0369 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C Y 4-Bromofluorobenzene (Surr) 7% 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50	W26-33 (A8H0328-11)
Toluene ND 0.0739 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0369 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C Journa ed8 (Surr) 97 % 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C <td>Benzene</td>	Benzene
Ethylbenzene ND 0.0369 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A	Foluene
Xylenes, total ND 0.111 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	Ethylbenzene
Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % 97 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Image: Solid Constraints Image: Solid Constrales Image: Solid Constral Solid Constraints	Xylenes, total
Toluene-d8 (Surr) 97 % 80-120 % 1 08/14/18 5035A/8260C 4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)
4-Bromofluorobenzene (Surr) 100 % 80-120 % 1 08/14/18 5035A/8260C MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	Toluene-d8 (Surr)
MW27-15 (A8H0328-12) Matrix: Soil Batch: 8080733 T Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	4-Bromofluorobenzene (Surr)
Benzene ND 0.0137 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	W27-15 (A8H0328-12)
Toluene ND 0.0683 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	Benzene
Ethylbenzene ND 0.0341 mg/kg dry 50 08/14/18 5035A/8260C	Foluene
	Ethylbenzene
Xylenes, total 0.102 0.102 mg/kg dry 50 08/14/18 5035A/8260C	Xylenes, total
Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 08/14/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)
<i>Toluene-d8 (Surr)</i> 96 % 80-120 % 1 08/14/18 5035A/8260C	Toluene-d8 (Surr)
4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/14/18 5035A/8260C	4-Bromofluorobenzene (Surr)
MW27-19 (A8H0328-13) Matrix: Soil Batch: 8080733 T	W27-19 (A8H0328-13)
Benzene ND 0.0123 mg/kg dry 50 08/14/18 5035A/8260C	Benzene
Toluene ND 0.0616 mg/kg dry 50 08/14/18 5035A/8260C	Foluene
Ethylbenzene 0.0992 0.0308 mg/kg dry 50 08/14/18 5035A/8260C	Ethylbenzene

Apex Laboratories

Assa & Someringhini

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.



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

314 W 15h Street Suite 300 Yanower, WA 98660 Project Namber: Project Manager: Cruig Hulgren Report Dis ABH023 8. 0s 21 B 1002 ARMOVER, WA 98660 Sample Sample Colspan="4">Sample Colspan="4" Sample Colspan="4" Sample Colspan="4" Sample Colspan="4" Sample Colspan="4" Sample Colspan="4" Matrix Soil Balance Colspan="4" Samaple Colspan="4" <th <="" colspan="4" th="" th<=""><th>HydroCon LLC</th><th></th><th>Project:</th><th><u>C</u>ol</th><th><u>eman Wenatche</u>e</th><th></th><th></th><th></th><th></th></th>	<th>HydroCon LLC</th> <th></th> <th>Project:</th> <th><u>C</u>ol</th> <th><u>eman Wenatche</u>e</th> <th></th> <th></th> <th></th> <th></th>				HydroCon LLC		Project:	<u>C</u> ol	<u>eman Wenatche</u> e				
Varcenver, WA 98660 Project Manager: Craig Hullgreen A SH18.328 - 06.21 18 10.02 ANALYTICAL SAMPLE RESULTS Date Date Date Notes Analyte Date Date Notes Matrix: Soil Date Date Notes Matrix: Soil Date Date Notes Matrix: Soil Date Colspan="2">Notes Surger, Li-Difluorobenzer, Gurri Recover, 99 % Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"	314 W 15th Street Suite 300		Project Nu	mber: 201	7-074			Report	ID:				
ANALYTICAL SAMPLE RESULTS BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reputing Limit Date Units Date Analyte Sample Result Detection Limit Reputing Limit Units Dilution Analyzed Notes WZ7-19 (ABH0228-13) Matrix: Soil Batch: 8060733 TEMP Surgez: 1.4.24/Harmbergene (Surr) Reserve; 0.9% Limit: Soil 0.001/Hit Soit/Hit <	Vancouver, WA 98660		Project Mar	nager: Cra	ig Hultgren		A8H0328 - 08 21 18 1032						
BTEX Compounds by EPA 8260C Analyte Sample Result Detection Limit Reporting Limit Date Nuits Date Analyzed Mather Mather Date Analyzed Mather Date Notes W227-19 (ABH0328-13) 0.631 0.0924 mg/kg dry 50 0.81/418 5055A8200C Surgate: 14-Difform/merce (Vart) Trabuene-85 (Sart) Recovery: 09% Linus: 80-120 % 1 0.61/418 5055A8200C MW27-39 (ABH0328-14) Matrix: Soil Batch: 8080733 TEMP MW27-39 (ABH0328-14) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0124 mg/kg dry 50 0.81/418 5055A8200C Surgate: 14-Diffuent/mercene (Surr) ND 0.0226 mg/kg dry 50 0.81/418 5055A8200C Surgate: 14-Diffuent/mercene (Surr) ND 0.0226 mg/kg dry 50 0.81/418 5055A8200C Surgate: 14-Diffuent/mercene (Surr) Recovery: 00% 5 Jold Hall 8 5055A8200C 10.81/418 5055A8200C <			ANALYTICA	L SAMP	PLE RESULTS								
Analyte Sample Result Detection Limit Reporting Limit Dute Units Dilution Date Analyzed Method Ref. Notes MW27-19 (A8H0328-13) Matrix: Soil Batch: 8080733 TEMP Sylners, total 0.631 0.024 mgkg dy 50 08/14/18 5033.48206C Surregate: 1.4-Diffuenchement (Surr) Recovery: 99 % 30-10 % 1 08/14/18 5033.48206C WZ7-39 (A8H0328-14) Matrix: Soil Batch: 8080733 TEMP MW27-39 (A8H0328-14) Matrix: Soil Batch: 8080733 TEMP Benzane ND 0.0124 mgkg dry 50 08/14/18 5035.48206C Surregate: 1.4-Diffuonchement (Surr) ND 0.0124 mgkg dry 50 08/14/18 5035.48206C Surregate: 1.4-Diffuonchement (Surr) Recovery: 09 % 50 08/14/18 5035.48206C Surregate: 1.4-Diffuonchement (Surr) Recovery: 09 % 50 08/14/18 5035.48206C			BTEX Comp	ounds b	y EPA 8260C								
Analyte Result Limit Limit Units Dilution Analyzed Method Ref. Notes MW27-19 (A\$H0328-13)		Sample	Detection I	Reporting			Date						
WW27-19 (A8H0328-13) Matrix: Soil Batch: 8080733 TEMP Xylenes, total 0.631 0.0924 mg/kg dry 50 08/14/18 5035A8200C Surrogate: 1.4-Diffuorbenzene (Surr) 86073 Emits: 80-120 % 1 08/14/18 5035A8200C 4-Bromoffuorbenzene (Surr) 96 % Sol-120 % 1 08/14/18 5035A8200C MV27-39 (A8H0328-14) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0124 mg/kg dry 50 08/14/18 5035A8200C Elhylbenzene ND 0.0124 mg/kg dry 50 08/14/18 5035A8200C Surrogate: 1.4-Diftiorrbenzene (Surr) ND 0.0026 mg/kg dry 50 08/14/18 5035A8200C Surrogate: 1.4-Diftiorrbenzene (Surr) ND 0.0026 mg/kg dry 50 08/14/18 5035A8200C Surrogate: 1.4-Diftiorrbenzene (Surr) 865 / 20 % 1 08/14/18 5035A820C Surrogate: 1.4-Diftiorrbenzene (Surr) ND	Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes				
Xylenes, total 0.631 0.0924 mg/kg dry 50 08/14/18 5035A8260C Surrogaz: 1.4.Dp/luorobenzene (Surr) Recovery: 97 % Linit: 80-120 % 1 08/14/18 5035A8260C 4-Branagfluorobenzene (Surr) 100 % 80-120 % 1 08/14/18 5035A8260C MWZ7-39 (A8H0328-14) Matrix: S01 Batch: 5035733 TEMP Benzene ND 0.0124 mg/kg dry 50 08/14/18 5035A8260C Tolucane ND 0.01048 mg/kg dry 50 08/14/18 5035A8260C Stronguz: 1.4-Df/luorobenzene (Surr) Tolucane 0.0296 mg/kg dry 50 08/14/18 5035A8260C Stronguz: 1.4-Df/luorobenzene (Surr) Recovery: 100 % 80-120 % 1 08/14/18 5035A8260C MWZ8-19 Kallarobenzene (Surr) Recovery: 100 % 80-120 % 1 08/14/18 5035A8260C MWZ8-19 Kallastarobenzene (Surr) ND	MW27-19 (A8H0328-13)				Matrix: Soil		Ва	atch: 8080733	TEMP				
Surrogue: 1.4-Difhorobenzene (Surr) Tahane-dS (Sur) -Brownelloarobenzene (Surr) Recovery: 99 % 69 % 80:120 % 100 % Limits: 80:120 % 80:120 % 80:120 % 1 I 088/14/18 90:35A.8260C S035A.8260C MV27-39 (A8H0328-14) Matrix: Soll Batch: 8080733 TEMP Benzene ND 0.0124 mg/kg dry 50 08/14/18 5035A.8260C Ethylbenzene ND 0.0124 mg/kg dry 50 08/14/18 5035A.8260C Stripplenzene ND 0.0124 mg/kg dry 50 08/14/18 5035A.8260C Stripplenzene ND 0.0026 mg/kg dry 50 08/14/18 5035A.8260C Stripplenzene ND 0.0026 mg/kg dry 50 08/14/18 5035A.8260C Stripplenzene ND 0.0026 mg/kg dry 50 08/14/18 5035A.8260C Stripplenzene ND 0.0118 mg/kg dry 50 08/14/18 5035A.8260C Ethylbenzene ND	Xylenes, total	0.631		0.0924	mg/kg dry	50	08/14/18	5035A/8260C					
Iblame-df (Surr) 96 % 80-120 % 1 08/14/18 5035.48260C 4-Bromgfluorobenzene (Surr) 100 % 80-120 % 1 08/14/18 5035.48260C MV27-39 (A8H0328-14) Matrix: Sol Batch: 808073 TEMP Benzene ND 0.0124 mg/kg dry 50 08/14/18 5035.48260C Toluene ND 0.0309 mg/kg dry 50 08/14/18 5035.48260C Surrogat: 1.4-D/fluorobenzene (Surr) ND 0.0309 mg/kg dry 50 08/14/18 5035.48260C Surrogat: 1.4-D/fluorobenzene (Surr) Recovery: 101 % 4.80120 % 1 08/14/18 5035.48260C V28-19 (A8H0328-15) Recovery: 101 % 801-20 % 1 08/14/18 5035.48260C Toluene ND 0.0118 mg/kg dry 50 08/14/18 5035.48260C V28-19 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	: 99 %	Limits: 80-120 %	1	08/14/18	5035A/8260C					
4-Brome@huerebenesee(Surr) 100 % 80/20 % 1 08/14/18 5035.4/8260C AM27-39 (A8H0328-14) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0124 rng/kg dry 50 08/14/18 5035.4/8260C Ethylbenzene ND 0.0026 mg/kg dry 50 08/14/18 5035.4/8260C Surrogate: 1.4.0/floorobenzene (Surr) Recovery: 00/926 mg/kg dry 50 08/14/18 5035.4/8260C Surrogate: 1.4.0/floorobenzene (Surr) Recovery: 00/926 mg/kg dry 50 08/14/18 5035.4/8260C MV2519 (A8H0328-15) Recovery: 06% Linia: 80/20 % 1 08/14/18 5035.4/8260C MV2519 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0788 mg/kg dry 50 08/14/18 5035.4/8260C Surrogate: 1.4.D/floorobenzene (Surr) 0.0788 mg/kg dry 50 08/14/18 5035.4	Toluene-d8 (Surr)			96 %	80-120 %	1	08/14/18	5035A/8260C					
Matrix Soil Batch: 8080733 TEMP Benzene ND 0.0124 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0124 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0124 mg/kg dry 50 08/14/18 5035A/8260C Surrogite: 1.4-Difluorobenzene (Surr) ND 0.0026 mg/kg dry 50 08/14/18 5035A/8260C Surrogite: 1.4-Difluorobenzene (Surr) Recovery: 10/% 8/1/20 % 1 08/14/18 5035A/8260C VM28-19 (A8H0328-15) Recovery: 10/% 8/1/20 % 1 08/14/18 5035A/8260C MV28-19 (A8H0328-16) ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Surrogite: 1.4-Difluorobenzene (Surr) 0.0224 mg/kg dry 50 08/14/18 5035A/8260C Surrogite: 1.4-Difluorobenzene (Surr) 0.0224 mg/kg d	4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	08/14/18	5035A/8260C					
Benzene ND 0.0124 rmg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0124 rmg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0309 rmg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.0926 rg/kg dry 50 08/14/18 5035A/8260C Surrogit: 1.4-D(fluorobenzene (Surr) Recovery: 10/% 8/1/20 % 1 08/14/18 5035A/8260C MW28-19 (ABH0328-16) Recovery: 10/% 8/1/20 % 1 08/14/18 5035A/8260C MW28-19 (ABH0328-16) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Surrogue: I.4-D(fluorobenzene (Surr) 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Surrogue: I.4-D(fluorobenzene (Surr) 0.02	MW27-39 (A8H0328-14)				Matrix: Soil		Ba	atch: 8080733	TEMP				
Toluene ND 0.0618 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0309 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Difhaorobenzene (Surr) Recovery: 100% Limits: 80-120 % 1 08/14/18 5035A/8260C Surrogate: 1.4-Difhaorobenzene (Surr) Recovery: 100% Limits: 80-120 % 1 08/14/18 5035A/8260C MV28-19 (A8H0328-15) Matrix: Soil Batch: 808733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Diffuorobenzene (Surr) ND 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Diffuorobenzene (Surr) 0.0294 mg/kg dry 50 08/14/18 5035A/8260C <	Benzene	ND		0.0124	mg/kg dry	50	08/14/18	5035A/8260C					
Ehylbenzene ND 0.0309 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total ND 0.0926 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Diftuorobenzene (Surr) Recovery: 100 % Limits: 80.120 % 1 08/14/18 5035A/8260C ABROMGIuorobenzene (Surr) 101 % 30-120 % 1 08/14/18 5035A/8260C AW28-19 (ABH0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Strongate: 1,4-Diftuorobenzene (Surr) ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Diftuorobenzene (Surr) ND 0.0234 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Diftuorobenzene (Surr) ND 0.0882 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Diftuorobenzene (Surr) 95% 80-120 % 1	Toluene	ND		0.0618	mg/kg dry	50	08/14/18	5035A/8260C					
Xylenes, total ND 0.0926 mg/kg dry 50 0.8/14/18 5035A/8260C Surragate: 1,4-Diffuorobenzene (Surr) Recovery: 100 % Limits: 80-120 % 1 0.8/14/18 5035A/8260C 4-Bromgfluorobenzene (Surr) 101 % 80-120 % 1 0.8/14/18 5035A/8260C MW28-19 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 0.8/14/18 5035A/8260C Toluene ND 0.0118 mg/kg dry 50 0.8/14/18 5035A/8260C Stringate: 1,4-Diffuorobenzene (Surr) ND 0.0294 mg/kg dry 50 0.8/14/18 5035A/8260C Surragate: 1,4-Diffuorobenzene (Surr) 0.169 0.0882 mg/kg dry 50 0.8/14/18 5035A/8260C MW28-25 (A8H0328-16) Recovery: 99 % Limits: 80-120 % 1 0.8/14/18 5035A/8260C MW28-25 (A8H0328-16) Matrix: Soil Batch: 808068 TEMP Benzene <td>Ethylbenzene</td> <td>ND</td> <td></td> <td>0.0309</td> <td>mg/kg dry</td> <td>50</td> <td>08/14/18</td> <td>5035A/8260C</td> <td></td>	Ethylbenzene	ND		0.0309	mg/kg dry	50	08/14/18	5035A/8260C					
Surrogate: 1,4-Diffuorobenzene (Surr) Toluene-d8 (Surr) Recovery: 100 % Limits: 80-120 % 1 08/14/18 5035.4/8260C ABRONGfuorobenzene (Surr) 101 % 80 % 108/14/18 5035.4/8260C 108/14/18 5035.4/8260C AW28-19 (A8H0328-15) Matrix: Soil Batch: 80035.4/8260C TEMP Benzene ND 0.01118 mg/kg dry 50 08/14/18 5035.4/8260C Toluene ND 0.0118 mg/kg dry 50 08/14/18 5035.4/8260C Surrogate: 1.4-Diffuorobenzene (Surr) ND 0.0294 mg/kg dry 50 08/14/18 5035.4/8260C Surrogate: 1.4-Diffuorobenzene (Surr) Receivery: 99 % Limits: 80-120 % 1 08/14/18 5035.4/8260C Surrogate: 1.4-Diffuorobenzene (Surr) Receivery: 99 % Limits: 80-120 % 1 08/14/18 5035.4/8260C Surrogate: 1.4-Diffuorobenzene (Surr) 99 % Limits: 80-120 % 1 08/14/18 5035.4/8260C Surrogate:	Xylenes, total	ND		0.0926	mg/kg dry	50	08/14/18	5035A/8260C					
Toluene-d8 (Surr) - J-Bromofluorobenzene (Surr) 96 % 101 % 80-120 % 80-120 % 1 08/14/18 5035.4/82.60C MW28-19 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035.4/82.60C Toluene ND 0.0118 mg/kg dry 50 08/14/18 5035.4/82.60C Stylenes, total 0.169 0.0294 mg/kg dry 50 08/14/18 5035.4/82.60C Surrogate: 1,4-Diffuorobenzene (Surr) 0.0828 mg/kg dry 50 08/14/18 5035.4/82.60C Surrogate: 1,4-Diffuorobenzene (Surr) 0.0828 0.081/41/18 5035.4/82.60C AV28-25 (A8H0328-16) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035.4/82.60C MW28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035.4/82.60C <td< td=""><td>Surrogate: 1,4-Difluorobenzene (Surr)</td><td></td><td>Recovery:</td><td>100 %</td><td>Limits: 80-120 %</td><td>1</td><td>08/14/18</td><td>5035A/8260C</td><td></td></td<>	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits: 80-120 %	1	08/14/18	5035A/8260C					
4-Bromofluorobenzene (Surr) 101% 80-120 % 1 08/14/18 5035.4/8260C MV28-19 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035.4/8260C Toluene ND 0.0118 mg/kg dry 50 08/14/18 5035.4/8260C Ethylbenzene ND 0.0294 mg/kg dry 50 08/14/18 5035.4/8260C Surogat: 1.4-Difluorobenzene (Surr) 0.169 0.0892 inits: 80-120 % 1 08/14/18 5035.4/8260C Surogat: 1.4-Difluorobenzene (Surr) 95 % 80-120 % 1 08/14/18 5035.4/8260C -4-Bromofluorobenzene (Surr) 99 % Limits: S0-120 % 1 08/14/18 5035.4/8260C 4-Bromofluorobenzene (Surr) 99 % Limits: S0-120 % 1 08/13/18 5035.4/8260C Stylenes, total 0.317 0.1014 mg/kg dry 50	Toluene-d8 (Surr)			96 %	80-120 %	1	08/14/18	5035A/8260C					
MV28-19 (A8H0328-15) Matrix: Soil Batch: 8080733 TEMP Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.01588 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 0.0882 mg/kg dry 50 08/14/18 5035A/8260C June48 (Surr) 0.0882 mg/kg dry 50 08/14/18 5035A/8260C MV28-25 (A8H0328-16) 0.0141 mg/kg dry 50 08/14/18 5035A/8260C MV28-25 (A8H0328-16) 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0166 mg/kg dry 50 08/13/18 5035A/8260C <td>4-Bromofluorobenzene (Surr)</td> <td></td> <td></td> <td>101 %</td> <td>80-120 %</td> <td>1</td> <td>08/14/18</td> <td>5035A/8260C</td> <td></td>	4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/14/18	5035A/8260C					
Benzene ND 0.0118 mg/kg dry 50 08/14/18 5035A/8260C Toluene ND 0.0588 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total 0.169 0.0882 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) P9% Limits: 80-120 % 1 08/14/18 5035A/8260C MV28-25 (A8H0328-16) Recovery: 99% 80-120 % 1 08/14/18 5035A/8260C MV28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.0106 mg/kg dry <td< td=""><td>MW28-19 (A8H0328-15)</td><td></td><td></td><td></td><td>Matrix: Soil</td><td></td><td>Ba</td><td>atch: 8080733</td><td>TEMP</td></td<>	MW28-19 (A8H0328-15)				Matrix: Soil		Ba	atch: 8080733	TEMP				
Toluene ND 0.0588 mg/kg dry 50 08/14/18 5035A/8260C Ethylbenzene ND 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total 0.169 0.0882 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Toluene-d8 (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW28-25 (A8H0328-16) Recovery: 99 % Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Kylenes, total 0.317 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C WW28-39 (A8H0328-17) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C WW28-39 (A8H0328-17) Recovery: 97 % 80-120 % 1 0	Benzene	ND	/-	0.0118	mg/kg dry	50	08/14/18	5035A/8260C					
Ethylbenzene ND 0.0294 mg/kg dry 50 08/14/18 5035A/8260C Xylenes, total 0.169 0.0882 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Toluene-d8 (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C Auroscience Surrogate: 1.4-Bromofluorobenzene (Surr) 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C Auroscience ND 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW28-25 (A8H0328-16) MD 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Stylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1.4-Difluorobenzene (Surr) Recovery: 99 % Limits:	Toluene	ND		0.0588	mg/kg dry	50	08/14/18	5035A/8260C					
Xylenes, total 0,169 0.0882 mg/kg dry 50 08/14/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/14/18 5035A/8260C MW28-25 (A8H0328-16) Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) ND 0.0704 mg/kg dry 50 08/13/18 5035A/8260C Stylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C W28-39 (A8H0328-17) Recovery:	Ethylbenzene	ND		0.0294	mg/kg dry	50	08/14/18	5035A/8260C					
Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 95 % 99 % Limits: 80-120 % 1 08/14/18 5035.4/8260C MW28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035.4/8260C Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) ND 0.0141 mg/kg dry 50 08/13/18 5035.4/8260C MW28-25 (A8H0328-16) ND 0.0141 mg/kg dry 50 08/13/18 5035.4/8260C Metrix: Soil Batch: 8080688 TEMP Benzene ND 0.0704 mg/kg dry 50 08/13/18 5035.4/8260C Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1,4-Difluorobenzene (Surr) 4-Bromofluorobenzene (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C MW28-39 (A8H0328-17) Recovery: 99 % Limits: Soil Batch: 8080688 TEMP Benzene N	Xylenes, total	0.169		0.0882	mg/kg dry	50	08/14/18	5035A/8260C					
Toluene-d8 (Surr) 95 % 80-120 % 1 08/14/18 5035.4/8260C MW28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035.4/8260C Toluene ND 0.0141 mg/kg dry 50 08/13/18 5035.4/8260C Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035.4/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C W28-39 (A8H0328-17) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C MW28-39 (A8H0328-17) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035.4/8260C Mutrix: Soil Batch: 8080688 TEMP Benzene ND 0.106 mg/kg dry 50 08/13/18 5035.4/8260C Mutrix: Soil Batch: 8080688 TEMP	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	99 %	Limits: 80-120 %	1	08/14/18	5035A/8260C					
4-Bromofluorobenzene (Surr) 99 % 80-120 % 1 08/14/18 5035A/8260C MW28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0704 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) 97 % 80-120 % 1 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND <td< td=""><td>Toluene-d8 (Surr)</td><td></td><td></td><td>95 %</td><td>80-120 %</td><td>1</td><td>08/14/18</td><td>5035A/8260C</td><td></td></td<>	Toluene-d8 (Surr)			95 %	80-120 %	1	08/14/18	5035A/8260C					
MW28-25 (A8H0328-16) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0704 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C ABB	4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/14/18	5035A/8260C					
Benzene ND 0.0141 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0704 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C Benzene ND 97 % 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C	MW28-25 (A8H0328-16)				Matrix: Soil		Ва	atch: 8080688	TEMP				
Toluene ND 0.0704 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C A-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C W28-39 (A8H0328-17) P Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Kolue ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.	Benzene	ND		0.0141	mg/kg dry	50	08/13/18	5035A/8260C					
Ethylbenzene 0.0528 0.0352 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Promofluorobenzene (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Kurrogate: ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Kurrogate: ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Kurrogate: ND 0.0262 mg/kg dry 50 08/13/18 5035A/8260C <tr< td=""><td>Toluene</td><td>ND</td><td></td><td>0.0704</td><td>mg/kg dry</td><td>50</td><td>08/13/18</td><td>5035A/8260C</td><td></td></tr<>	Toluene	ND		0.0704	mg/kg dry	50	08/13/18	5035A/8260C					
Xylenes, total 0.317 0.106 mg/kg dry 50 08/13/18 5035A/8260C Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) 97 % 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Kylenes, total 0.223 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Ethylbenzene	0.0528		0.0352	mg/kg dry	50	08/13/18	5035A/8260C					
Surrogate: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) Recovery: 99 % 97 % Limits: 80-120 % 1 08/13/18 5035A/8260C 97 % 80-120 % 1 08/13/18 5035A/8260C 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C WW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Xylenes, total	0.317		0.106	mg/kg dry	50	08/13/18	5035A/8260C					
Toluene-d8 (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C 4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	: 99 %	Limits: 80-120 %	1	08/13/18	5035A/8260C					
4-Bromofluorobenzene (Surr) 97 % 80-120 % 1 08/13/18 5035A/8260C MW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0523 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Toluene-d8 (Surr)			97 %	80-120 %	1	08/13/18	5035A/8260C					
MW28-39 (A8H0328-17) Matrix: Soil Batch: 8080688 TEMP Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0523 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	08/13/18	5035A/8260C					
Benzene ND 0.0105 mg/kg dry 50 08/13/18 5035A/8260C Toluene ND 0.0523 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	MW28-39 (A8H0328-17)				Matrix: Soil		Ва	atch: 8080688	TEMP				
Toluene ND 0.0523 mg/kg dry 50 08/13/18 5035A/8260C Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Benzene	ND		0.0105	mg/kg dry	50	08/13/18	5035A/8260C					
Ethylbenzene 0.0638 0.0262 mg/kg dry 50 08/13/18 5035A/8260C Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Toluene	ND		0.0523	mg/kg dry	50	08/13/18	5035A/8260C					
Xylenes, total 0.223 0.0785 mg/kg dry 50 08/13/18 5035A/8260C	Ethylbenzene	0.0638		0.0262	mg/kg dry	50	08/13/18	5035A/8260C					
	Xylenes, total	0.223		0.0785	mg/kg dry	50	08/13/18	5035A/8260C					

Apex Laboratories

Assa A Someringhini

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.



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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Pro Projec Project	ject: <u>Coler</u> t Number: 2017 Manager: Craig	<u>man Wenatche</u> -074 g Hultgren	<u>ee</u>		<u>Report</u> A8H0328 - 08 2	<u>ID:</u> 1 18 1032
		ANALYTI	CAL SAMPI	LE RESULT	ГS			
		BTEX Co	mpounds by	EPA 8260C				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW28-39 (A8H0328-17)				Matrix: So	oil	Bat	tch: 8080688	TEMP

MW28-39 (A8H0328-17)		Matrix: Soil	Batch: 8080688	TEMP
Surrogate: 1,4-Difluorobenzene (Surr)	Recovery: 100 %	Limits: 80-120 % 1	08/13/18 5035A/8260C	
Toluene-d8 (Surr)	96 %	80-120 % 1	08/13/18 5035A/8260C	
4-Bromofluorobenzene (Surr)	98 %	80-120 % 1	08/13/18 5035A/8260C	

Apex Laboratories

Jusa A Zomenighini

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.



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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Pro Projec Project	ject: <u>Cole</u> t Number: 2017 Manager: Crai	<u>man Wenatchee</u> -074 g Hultgren			<u>Report</u> A8H0328 - 08 2	<u>ID:</u> 1 18 1032
		ANALYTI	CAL SAMP	LE RESULTS				
		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW24-15 (A8H0328-01)				Matrix: Soil		Ва	tch: 8080686	TEMP
% Solids	88.7		1.00	% by Weight	1	08/14/18	EPA 8000C	
MW24-22 (A8H0328-02)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	87.7		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW24-28 (A8H0328-03)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	78.1		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW24-35 (A8H0328-04)				Matrix: Soil		Ва	tch: 8080736	TEMP
% Solids	88.8		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW25-19 (A8H0328-05)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	79.9		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW25-22 (A8H0328-06)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	87.4		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW25-35 (A8H0328-07)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	86.7		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW26-15 (A8H0328-08)				Matrix: Soil		Ва	tch: 8080736	TEMP
% Solids	78.7		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW26-19 (A8H0328-09)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	81.3		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW26-29 (A8H0328-10)				Matrix: Soil		Ba	tch: 8080686	TEMP
% Solids	81.0		1.00	% by Weight	1	08/14/18	EPA 8000C	
MW26-33 (A8H0328-11)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	76.1		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW27-15 (A8H0328-12)				Matrix: Soil		Ba	tch: 8080736	TEMP
% Solids	85.3		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW27-19 (A8H0328-13)				Matrix: Soil		Ва	tch: 8080736	TEMP

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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Proj Project Project ANALYTI	ect: <u>Coler</u> Number: 2017- Manager: Craig CAL SAMPI	nan Wenatchee 074 3 Hultgren LE RESULTS			<u>Report</u> A8H0328 - 08 2	<u>ID:</u> 1 18 1032
		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW27-19 (A8H0328-13)				Matrix: Soil		Bat	ch: 8080736	TEMP
% Solids	86.4		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW27-39 (A8H0328-14)				Matrix: Soil		Bat	ch: 8080736	TEMP
% Solids	80.8		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW28-19 (A8H0328-15)				Matrix: Soil		Bat	ch: 8080736	TEMP
% Solids	80.1		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW28-25 (A8H0328-16)				Matrix: Soil		Bat	ch: 8080736	TEMP
% Solids	72.6		1.00	% by Weight	1	08/15/18	EPA 8000C	
MW28-39 (A8H0328-17)				Matrix: Soil		Bat	ch: 8080686	TEMP
% Solids	88.7		1.00	% by Weight	1	08/14/18	EPA 8000C	

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

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HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	or Oil Hyd	rocarbor	ns by NW	FPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080754 - EPA 3546 (Fu	els)						Soil					
Blank (8080754-BLK1)		Prepared	: 08/14/18 12:	50 Analyze	ed: 08/14/1	8 20:41						
NWTPH-Dx		1										
Diesel	ND		25.0	mg/kg we	et 1							
Oil	ND		50.0	mg/kg we	et 1							
Mineral Oil	ND		36.4	mg/kg we	t 1							
Surr: o-Terphenyl (Surr)		Reco	very: 107 %	Limits: 50-	150 %	Dih	ution: 1x					
LCS (8080754-BS1)		Prepared	: 08/14/18 12:	:50 Analyze	ed: 08/14/1	8 21:03						
<u>NWTPH-Dx</u>		1										
Diesel	116		25.0	mg/kg we	t 1	125		93	76-115%			
Surr: o-Terphenyl (Surr)		Reco	very: 104 %	Limits: 50-	150 %	Dila	ution: 1x					
Batch 8080799 - EPA 3546 (Fu	els)						Soil					
Blank (8080799-BLK1)		Prepared	: 08/15/18 13:	:42 Analyze	ed: 08/15/1	8 20:40						
NWTPH-Dx												
Diesel	ND		25.0	mg/kg we	et 1							
Oil	ND		50.0	mg/kg we	t 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 83 %	Limits: 50-	150 %	Dili	ution: 1x					
LCS (8080799-BS1)		Prepared	: 08/15/18 13:	:42 Analyze	ed: 08/15/1	8 20:59						
NWTPH-Dx		-										
Diesel	118		25.0	mg/kg we	t 1	125		94	76-115%			
Surr: o-Terphenyl (Surr)		Reco	overy: 92 %	Limits: 50-	150 %	Dili	ution: 1x					
Duplicate (8080799-DUP1)		Prepared	: 08/15/18 13:	:42 Analyze	ed: 08/15/1	8 21:39						
QC Source Sample: MW24-28 (A8	3H0328-03)											
<u>NWTPH-Dx</u>												
Diesel	ND		25.0	mg/kg dr	y 1		ND				30%	
Oil	ND		50.0	mg/kg dr	y 1		ND				30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 64 %	Limits: 50-	150 %	Dili	ution: 1x					

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

HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/o	or Oil Hyd	drocarbor	ns by NW	FPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080854 - EPA 3546	(Fuels)						Soil					
Blank (8080854-BLK1)		Prepared	: 08/16/18 14:	36 Analyz	zed: 08/16/1	8 21:56						
NWTPH-Dx												
Diesel	ND		25.0	mg/kg w	vet 1							
Oil	ND		50.0	mg/kg w	vet 1							
Surr: o-Terphenyl (Surr)		Reco	very: 100 %	Limits: 50	0-150 %	Dili	ution: 1x					
LCS (8080854-BS1)		Prepared	: 08/16/18 14:	36 Analyz	zed: 08/16/1	8 22:17						
NWTPH-Dx												
Diesel	120		25.0	mg/kg w	vet 1	125		96	76-115%			
Surr: o-Terphenyl (Surr)		Reco	very: 103 %	Limits: 50	0-150 %	Dili	ution: 1x					

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	nthalene)	by NWTP	H-Gx				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	No	otes
Batch 8080688 - EPA 5035A							Soil						
Blank (8080688-BLK1)		Prepared	: 08/13/18 09	:00 Analy	zed: 08/13/1	8 11:36							
NWTPH-Gx (MS)													
Gasoline Range Organics	ND		3.33	mg/kg v	vet 50								
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 99%	Limits: 5	0-150 %	Dil	lution: 1x						
1,4-Difluorobenzene (Sur)			93 %	5	0-150 %		"						
LCS (8080688-BS2)		Prepared	: 08/13/18 09	:00 Analy	zed: 08/13/1	8 11:10							
NWTPH-Gx (MS)													
Gasoline Range Organics	22.4		5.00	mg/kg v	vet 50	25.0		89	80-120%				
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 103 %	Limits: 5	0-150 %	Dil	lution: 1x						
1,4-Difluorobenzene (Sur)			95 %	5	0-150 %		"						
Duplicate (8080688-DUP1)		Prepared	: 08/06/18 09	:30 Analy	zed: 08/13/1	8 16:41							TEM
QC Source Sample: MW24-15 (A8	8H0328-01)												
<u>NWTPH-Gx (MS)</u>													
Gasoline Range Organics	ND		5.09	mg/kg c	iry 50		ND				30%	Q-05	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 107 %	Limits: 5	0-150 %	Dil	lution: 1x						
1,4-Difluorobenzene (Sur)			93 %	5	0-150 %		"						
Duplicate (8080688-DUP2)		Prepared	: 08/08/18 08	:50 Analy	zed: 08/13/1	8 21:09							TEM
QC Source Sample: MW26-29 (A8	8H0328-10)												
NWTPH-Gx (MS)													
Gasoline Range Organics	15.4		6.35	mg/kg d	iry 50		33.4			74	30%	Q-05	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 110 %	Limits: 5	0-150 %	Dil	lution: 1x						
1,4-Difluorobenzene (Sur)			94 %	5	0-150 %		"						

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

HydroCon LLC	Project:	<u>Coleman Wenatchee</u>	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoli	ne Range H	ydrocarbo	ons (Benz	ene thro	ugh Naph	nthalene) b	y NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080732 - EPA 5035A							Soil					
Blank (8080732-BLK1)		Prepared:	08/14/18 08	00 Analyz	ed: 08/14/1	8 11:00						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		3.33	mg/kg w	et 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 95 %	Limits: 50	-150 %	Di	lution: 1x					
1,4-Difluorobenzene (Sur)			92 %	50	-150 %		"					
LCS (8080732-BS2)		Prepared:	08/14/18 08:	00 Analyz	ed: 08/14/1	8 10:33						
NWTPH-Gx (MS)												
Gasoline Range Organics	24.8		5.00	mg/kg w	et 50	25.0		99	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 50	-150 %	Di	lution: 1x					
1,4-Difluorobenzene (Sur)			95 %	50	-150 %		"					

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<u>HydroCon LLC</u>	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene) b	by NWTP	H-Gx				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Note	S
Batch 8080733 - EPA 5035A							Soil						
Blank (8080733-BLK1)		Prepared	: 08/14/18 11:	00 Analy	zed: 08/14/1	8 13:32							
NWTPH-Gx (MS)													
Gasoline Range Organics	ND		3.33	mg/kg v	wet 50								
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 107 %	Limits: 5	0-150 %	Dil	ution: 1x						
1,4-Difluorobenzene (Sur)			94 %	5	0-150 %		"						
LCS (8080733-BS2)		Prepared	: 08/14/18 11:	00 Analy	zed: 08/14/1	8 13:06							
NWTPH-Gx (MS)													
Gasoline Range Organics	24.3		5.00	mg/kg v	wet 50	25.0		97	80-120%				
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 102 %	Limits: 5	0-150 %	Dil	ution: 1x						
1,4-Difluorobenzene (Sur)			96 %	5	0-150 %		"						
Duplicate (8080733-DUP1)		Prepared	: 08/08/18 09	25 Analy	zed: 08/14/1	8 14:29						Т	EMF
QC Source Sample: MW26-33 (A	<u>8H0328-11)</u>												
<u>NWTPH-Gx (MS)</u>													
Gasoline Range Organics	ND		7.05	mg/kg c	dry 50		3.86			***	30%	Q-05	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 109 %	Limits: 5	0-150 %	Dil	ution: 1x						
1,4-Difluorobenzene (Sur)			94 %	5	0-150 %		"						

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HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compour	nds by E	EPA 82600)						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Not	es
Batch 8080688 - EPA 5035A							Soil						
Blank (8080688-BLK1)		Prepared	: 08/13/18 09:	00 Analyze	d: 08/13/1	18 11:36							
5035A/8260C													
Benzene	ND		0.00667	mg/kg we	t 50								
Toluene	ND		0.0333	mg/kg we	t 50								
Ethylbenzene	ND		0.0167	mg/kg we	t 50								
Xylenes, total	ND		0.0500	mg/kg we	t 50								
Surr: 1,4-Difluorobenzene (Surr)		Rece	overy: 98 %	Limits: 80-	120 %	Dil	ution: 1x						
Toluene-d8 (Surr)			99 %	80-1	20 %		"						
4-Bromofluorobenzene (Surr)			100 %	80-1	20 %		"						
LCS (8080688-BS1)		Prepared	: 08/13/18 09:	00 Analyze	d: 08/13/1	18 10:43	7						
5035A/8260C		1		-									
Benzene	0.875		0.0100	mg/kg we	t 50	1.00		88	80-120%				
Toluene	0.838		0.0500	mg/kg we	t 50	1.00		84	80-120%				
Ethylbenzene	0.877		0.0250	mg/kg we	t 50	1.00		88	80-120%				
Xylenes, total	2.61		0.0750	mg/kg we	t 50	3.00		87	80-120%				
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80-1	120 %	Dil	ution: 1x						
Toluene-d8 (Surr)			97 %	80-1	20 %		"						
4-Bromofluorobenzene (Surr)			99 %	80-1	20 %		"						
Duplicate (8080688-DUP1)		Prepared	: 08/06/18 09:	30 Analyze	d: 08/13/1	18 16:41						r	ГЕМ
OC Source Sample: MW24-15 (A)	8H0328-01)												
5035A/8260C	<u>/</u>		×										
Benzene	ND		0.0102	mg/kg dry	50		ND				30%		
Toluene	ND		0.0509	mg/kg dry	50		ND				30%		
Ethylbenzene	0.0606		0.0255	mg/kg dry	50		ND				30%	Q-04	
Xylenes, total	0.324		0.0764	mg/kg dry	50		0.0418			154	30%	Q-04	
Surr: 1,4-Difluorobenzene (Surr)		Rece	overy: 99 %	Limits: 80-	120 %	Dil	ution: 1x						
Toluene-d8 (Surr)			96 %	80-1	20 %		"						
4-Bromofluorobenzene (Surr)			99 %	80-1	20 %		"						
Duplicate (8080688-DUP2)		Prepared	: 08/08/18 08:	50 Analyze	d: 08/13/1	18 21:09						r	— ГЕМ
OC Source Sample: MW26-29 (A8	8H0328-10)												

5035A/8260C

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

<u>HydroCon LLC</u>	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	nds by E	PA 82600	;					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080688 - EPA 5035A							Soil					
Duplicate (8080688-DUP2)		Prepared	: 08/08/18 08:	50 Analyze	ed: 08/13/1	8 21:09						TEMI
QC Source Sample: MW26-29 (A8	8H0328-10)											
Benzene	ND		0.0127	mg/kg dr	y 50		ND				30%	
Toluene	ND		0.0635	mg/kg dr	y 50		ND				30%	
Ethylbenzene	ND		0.0317	mg/kg dr	y 50		ND				30%	
Xylenes, total	ND		0.0952	mg/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 100 %	Limits: 80-	120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80-	120 %		"					
Matrix Spike (8080688-MS1)		Prepared	: 08/10/18 09:	45 Analyze	ed: 08/13/1	8 22:29						T-02, TEMI
<u>QC Source Sample: MW28-39 (A8 5035A/8260C</u>	<u>8H0328-17)</u>											
Benzene	0.961		0.0105	mg/kg dr	y 50	1.05	ND	92	77-121%			
Toluene	0.898		0.0523	mg/kg dr	y 50	1.05	ND	86	77-121%			
Ethylbenzene	0.993		0.0262	mg/kg dr	y 50	1.05	0.0638	89	76-122%			
Xylenes, total	3.00		0.0785	mg/kg dr	y 50	3.14	0.223	88	78-124%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 100 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99%	80-	120 %		"					

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

<u>HydroCon LLC</u>	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	inds by E	PA 8260C						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080732 - EPA 5035A							Soil					
Blank (8080732-BLK1)		Prepared	: 08/14/18 08:	00 Analyz	ed: 08/14/1	8 11:00						
5035A/8260C												
Benzene	ND		0.00667	mg/kg w	et 50							
Toluene	ND		0.0333	mg/kg w	et 50							
Ethylbenzene	ND		0.0167	mg/kg w	et 50							
Xylenes, total	ND		0.0500	mg/kg w	et 50							
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 95 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			102 %	80	-120 %		"					
LCS (8080732-BS1)		Prepared	: 08/14/18 08:	00 Analyz	ed: 08/14/1	8 10:06						
5035A/8260C												
Benzene	0.909		0.0100	mg/kg w	et 50	1.00		91	80-120%			
Toluene	0.952		0.0500	mg/kg w	et 50	1.00		95	80-120%			
Ethylbenzene	0.973		0.0250	mg/kg w	et 50	1.00		97	80-120%			
Xylenes, total	2.95		0.0750	mg/kg w	et 50	3.00		98	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 96 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	-120 %		"					

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

HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compour	nds by E	PA 82600	;					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080733 - EPA 5035A							Soil	l				
Blank (8080733-BLK1)		Prepared	: 08/14/18 11:	00 Analyze	d: 08/14/1	8 13:32						
<u>5035A/8260C</u>												
Benzene	ND		0.00667	mg/kg we	t 50							
Toluene	ND		0.0333	mg/kg we	t 50							
Ethylbenzene	ND		0.0167	mg/kg we	t 50							
Xylenes, total	ND		0.0500	mg/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Rece	overy: 99 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			95 %	80-1	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80-1	120 %		"					
LCS (8080733-BS1)		Prepared	: 08/14/18 11:	00 Analyze	d: 08/14/1	8 12:39	, 					
5035A/8260C		1		-								
Benzene	0.914		0.0100	mg/kg we	t 50	1.00		91	80-120%			
Toluene	0.884		0.0500	mg/kg we	t 50	1.00		88	80-120%			
Ethylbenzene	0.925		0.0250	mg/kg we	t 50	1.00		92	80-120%			
Xylenes, total	2.68		0.0750	mg/kg we	t 50	3.00		89	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			97 %	80-1	120 %		"					
4-Bromofluorobenzene (Surr)			102 %	80-1	120 %		"					
Duplicate (8080733-DUP1)		Prepared	: 08/08/18 09:	25 Analyze	d: 08/14/1	8 14:29						TEM
OC Source Sample: MW26-33 (A8	8H0328-11)	-		-								
5035A/8260C	<u> </u>		×									
Benzene	ND		0.0141	mg/kg dry	50		ND				30%	
Toluene	ND		0.0705	mg/kg dry	50		ND				30%	
Ethylbenzene	ND		0.0352	mg/kg dry	50		ND				30%	
Xylenes, total	ND		0.106	mg/kg dry	50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 98 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			96 %	80-1	120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80-1	120 %		"					
Matrix Spike (8080733-MS1)		Prepared	: 08/10/18 07:	45 Analyze	d: 08/14/1	8 16:43						TEM
OC Source Sample: MW28-19 (A8	8H0328-15)											

5035A/8260C

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	nds by E	PA 82600	<u> </u>					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8080733 - EPA 5035A							Soil					
Matrix Spike (8080733-MS1)		Prepared	: 08/10/18 07:	45 Analyze	ed: 08/14/1	8 16:43						ТЕМР
QC Source Sample: MW28-19 (A	<u>8H0328-15)</u>											
Benzene	1.12		0.0118	mg/kg dr	y 50	1.18	ND	96	77-121%			
Toluene	1.05		0.0588	mg/kg dr	y 50	1.18	ND	89	77-121%			
Ethylbenzene	1.12		0.0294	mg/kg dr	y 50	1.18	0.0276	93	76-122%			
Xylenes, total	3.48		0.0882	mg/kg dr	y 50	3.53	0.169	94	78-124%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 100 %	Limits: 80-	-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			95 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80-	120 %		"					

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

HydroCon LLC	Project: Coleman Wenatchee	<u>1</u>
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

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 8080686 - Tota				Soil								

Batch 8080686 - Total Solids (Dry Weight)

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

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

HydroCon LLC	Project: <u>Coleman Wenatchee</u>	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

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 8080736 - Total Solids (Dry Weight) Soil												
Duplicate (8080736-DUP2)		Prepared	: 08/14/18 09:	39 Analy	zed: 08/15/1	8 08:37						
QC Source Sample: MW26-15 (A EPA 8000C	A8H0328-08)											
% Solids	78.6		1.00	% by We	ight 1		78.7			0.05	10%	

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

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

<u>HydroCon LLC</u>	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	is by NWTPH-Dx			
Prep: EPA 3546 (F	uels)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080754							
A8H0328-16	Soil	NWTPH-Dx	08/10/18 08:10	08/14/18 12:50	10.78g/5mL	10g/5mL	0.93
A8H0328-17	Soil	NWTPH-Dx	08/10/18 09:45	08/14/18 12:50	10.37g/5mL	10g/5mL	0.96
Batch: 8080799							
A8H0328-03	Soil	NWTPH-Dx	08/06/18 10:40	08/15/18 13:42	10.5g/5mL	10g/5mL	0.95
A8H0328-04	Soil	NWTPH-Dx	08/06/18 11:00	08/15/18 13:42	10.61g/5mL	10g/5mL	0.94
A8H0328-05	Soil	NWTPH-Dx	08/07/18 08:00	08/15/18 13:42	10.36g/5mL	10g/5mL	0.97
A8H0328-06	Soil	NWTPH-Dx	08/07/18 08:20	08/15/18 13:42	10.6g/5mL	10g/5mL	0.94
A8H0328-07	Soil	NWTPH-Dx	08/07/18 09:00	08/15/18 13:42	10.13g/5mL	10g/5mL	0.99
A8H0328-08	Soil	NWTPH-Dx	08/08/18 08:20	08/15/18 13:42	10.91g/5mL	10g/5mL	0.92
A8H0328-09	Soil	NWTPH-Dx	08/08/18 08:35	08/15/18 13:42	10.41g/5mL	10g/5mL	0.96
A8H0328-10	Soil	NWTPH-Dx	08/08/18 08:50	08/15/18 13:42	10.89g/5mL	10g/5mL	0.92
A8H0328-11	Soil	NWTPH-Dx	08/08/18 09:25	08/15/18 13:42	10.72g/5mL	10g/5mL	0.93
A8H0328-12	Soil	NWTPH-Dx	08/09/18 08:40	08/15/18 13:42	10.46g/5mL	10g/5mL	0.96
A8H0328-13	Soil	NWTPH-Dx	08/09/18 08:55	08/15/18 13:42	10.42g/5mL	10g/5mL	0.96
A8H0328-14	Soil	NWTPH-Dx	08/09/18 10:35	08/15/18 13:42	10.5g/5mL	10g/5mL	0.95
A8H0328-15	Soil	NWTPH-Dx	08/10/18 07:45	08/15/18 13:42	10.71g/5mL	10g/5mL	0.93
Batch: 8080854							
A8H0328-01	Soil	NWTPH-Dx	08/06/18 09:30	08/16/18 14:36	10.42g/5mL	10g/5mL	0.96
A8H0328-02	Soil	NWTPH-Dx	08/06/18 10:10	08/16/18 14:36	10.24g/5mL	10g/5mL	0.98

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx										
Prep: EPA 5035A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 8080688											
A8H0328-01	Soil	NWTPH-Gx (MS)	08/06/18 09:30	08/06/18 09:30	6.06g/5mL	5g/5mL	0.83				
A8H0328-02	Soil	NWTPH-Gx (MS)	08/06/18 10:10	08/06/18 10:10	5.84g/5mL	5g/5mL	0.86				
A8H0328-04	Soil	NWTPH-Gx (MS)	08/06/18 11:00	08/06/18 11:00	5.53g/5mL	5g/5mL	0.90				
A8H0328-05	Soil	NWTPH-Gx (MS)	08/07/18 08:00	08/07/18 08:00	5.78g/5mL	5g/5mL	0.87				
A8H0328-06	Soil	NWTPH-Gx (MS)	08/07/18 08:20	08/07/18 08:20	5.84g/5mL	5g/5mL	0.86				
A8H0328-07	Soil	NWTPH-Gx (MS)	08/07/18 09:00	08/07/18 09:00	5g/5mL	5g/5mL	1.00				
A8H0328-08	Soil	NWTPH-Gx (MS)	08/08/18 08:20	08/08/18 08:20	6.58g/5mL	5g/5mL	0.76				
A8H0328-09	Soil	NWTPH-Gx (MS)	08/08/18 08:35	08/08/18 08:35	6.87g/5mL	5g/5mL	0.73				
A8H0328-10	Soil	NWTPH-Gx (MS)	08/08/18 08:50	08/08/18 08:50	6.05g/5mL	5g/5mL	0.83				
A8H0328-16	Soil	NWTPH-Gx (MS)	08/10/18 08:10	08/10/18 08:10	6.69g/5mL	5g/5mL	0.75				

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

SAMPLE PREPARATION INFORMATION

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx											
Prep: EPA 5035A					Sample	Default	RL Prep					
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
A8H0328-17	Soil	NWTPH-Gx (MS)	08/10/18 09:45	08/10/18 09:45	6.13g/5mL	5g/5mL	0.82					
Batch: 8080732												
A8H0328-03RE1	Soil	NWTPH-Gx (MS)	08/06/18 10:40	08/06/18 10:40	6.24g/5mL	5g/5mL	0.80					
Batch: 8080733												
A8H0328-11	Soil	NWTPH-Gx (MS)	08/08/18 09:25	08/08/18 09:25	5.64g/5mL	5g/5mL	0.89					
A8H0328-12	Soil	NWTPH-Gx (MS)	08/09/18 08:40	08/09/18 08:40	4.91g/5mL	5g/5mL	1.02					
A8H0328-13	Soil	NWTPH-Gx (MS)	08/09/18 08:55	08/09/18 08:55	5.39g/5mL	5g/5mL	0.93					
A8H0328-14	Soil	NWTPH-Gx (MS)	08/09/18 10:35	08/09/18 10:35	6.2g/5mL	5g/5mL	0.81					
A8H0328-15	Soil	NWTPH-Gx (MS)	08/10/18 07:45	08/10/18 07:45	6.74g/5mL	5g/5mL	0.74					

	BTEX Compounds by EPA 8260C										
Prep: EPA 5035A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 8080688											
A8H0328-01	Soil	5035A/8260C	08/06/18 09:30	08/06/18 09:30	6.06g/5mL	5g/5mL	0.83				
A8H0328-02	Soil	5035A/8260C	08/06/18 10:10	08/06/18 10:10	5.84g/5mL	5g/5mL	0.86				
A8H0328-04	Soil	5035A/8260C	08/06/18 11:00	08/06/18 11:00	5.53g/5mL	5g/5mL	0.90				
A8H0328-05	Soil	5035A/8260C	08/07/18 08:00	08/07/18 08:00	5.78g/5mL	5g/5mL	0.87				
A8H0328-06	Soil	5035A/8260C	08/07/18 08:20	08/07/18 08:20	5.84g/5mL	5g/5mL	0.86				
A8H0328-07	Soil	5035A/8260C	08/07/18 09:00	08/07/18 09:00	5g/5mL	5g/5mL	1.00				
A8H0328-08	Soil	5035A/8260C	08/08/18 08:20	08/08/18 08:20	6.58g/5mL	5g/5mL	0.76				
A8H0328-09	Soil	5035A/8260C	08/08/18 08:35	08/08/18 08:35	6.87g/5mL	5g/5mL	0.73				
A8H0328-10	Soil	5035A/8260C	08/08/18 08:50	08/08/18 08:50	6.05g/5mL	5g/5mL	0.83				
A8H0328-16	Soil	5035A/8260C	08/10/18 08:10	08/10/18 08:10	6.69g/5mL	5g/5mL	0.75				
A8H0328-17	Soil	5035A/8260C	08/10/18 09:45	08/10/18 09:45	6.13g/5mL	5g/5mL	0.82				
Batch: 8080732											
A8H0328-03RE1	Soil	5035A/8260C	08/06/18 10:40	08/06/18 10:40	6.24g/5mL	5g/5mL	0.80				
Batch: 8080733											
A8H0328-11	Soil	5035A/8260C	08/08/18 09:25	08/08/18 09:25	5.64g/5mL	5g/5mL	0.89				
A8H0328-12	Soil	5035A/8260C	08/09/18 08:40	08/09/18 08:40	4.91g/5mL	5g/5mL	1.02				
A8H0328-13	Soil	5035A/8260C	08/09/18 08:55	08/09/18 08:55	5.39g/5mL	5g/5mL	0.93				
A8H0328-14	Soil	5035A/8260C	08/09/18 10:35	08/09/18 10:35	6.2g/5mL	5g/5mL	0.81				
A8H0328-15	Soil	5035A/8260C	08/10/18 07:45	08/10/18 07:45	6.74g/5mL	5g/5mL	0.74				

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

SAMPLE PREPARATION INFORMATION

			Percent Dry We	eight			
Prep: Total Solids ([Dry Weight)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080686							
A8H0328-01	Soil	EPA 8000C	08/06/18 09:30	08/13/18 19:23			NA
A8H0328-10	Soil	EPA 8000C	08/08/18 08:50	08/13/18 19:23			NA
A8H0328-17	Soil	EPA 8000C	08/10/18 09:45	08/13/18 19:23			NA
Batch: 8080736							
A8H0328-02	Soil	EPA 8000C	08/06/18 10:10	08/14/18 09:39			NA
A8H0328-03	Soil	EPA 8000C	08/06/18 10:40	08/14/18 09:39			NA
A8H0328-04	Soil	EPA 8000C	08/06/18 11:00	08/14/18 09:39			NA
A8H0328-05	Soil	EPA 8000C	08/07/18 08:00	08/14/18 09:39			NA
A8H0328-06	Soil	EPA 8000C	08/07/18 08:20	08/14/18 09:39			NA
A8H0328-07	Soil	EPA 8000C	08/07/18 09:00	08/14/18 09:39			NA
A8H0328-08	Soil	EPA 8000C	08/08/18 08:20	08/14/18 09:39			NA
A8H0328-09	Soil	EPA 8000C	08/08/18 08:35	08/14/18 09:39			NA
A8H0328-11	Soil	EPA 8000C	08/08/18 09:25	08/14/18 09:39			NA
A8H0328-12	Soil	EPA 8000C	08/09/18 08:40	08/14/18 09:39			NA
A8H0328-13	Soil	EPA 8000C	08/09/18 08:55	08/14/18 09:39			NA
A8H0328-14	Soil	EPA 8000C	08/09/18 10:35	08/14/18 09:39			NA
A8H0328-15	Soil	EPA 8000C	08/10/18 07:45	08/14/18 09:39			NA
A8H0328-16	Soil	EPA 8000C	08/10/18 08:10	08/14/18 09:39			NA

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

HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

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-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.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-37 Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
- 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.
- **TEMP** Sample(s) received outside of recommended temperature. See Case Narrative.

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

HydroCon LLC	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0328 - 08 21 18 1032

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.

"<u>dry</u>" 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.

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 1032

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank 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.

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Lisa Domenighini, Client Services Manager

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

roton LLC		Project:	Coleman wenatchee	
W 15th Street S	Suite 300	Project Number:	2017-074	Report ID:
couver, WA 986	560	Project Manager:	Craig Hultgren	A8H0328 - 08 21 18 103
		LABORATORY ACCRED	ITATION INFORMATIO	ON
	TNI Contific	ation ID. OD100062 (Drima	w Accorditation) EDA	ID: OD01020
	TNI Certific	ation ID: OR100062 (Prima	ry Accreditation) - EPA	ID: OR01039
All methods a	TNI Certific and analytes reported fr	eation ID: OR100062 (Priman om work performed at Apex Labo	ry Accreditation) - EPA ratories are included on Apex	ID: OR01039 Laboratories' ORELAP
All methods a Scope of Cert	TNI Certific and analytes reported fr tification, with the <u>exce</u>	ation ID: OR100062 (Primar om work performed at Apex Labo ption of any analyte(s) listed below	ry Accreditation) - EPA ratories are included on Apex w:	ID: OR01039 Laboratories' ORELAP
All methods a Scope of Cert	TNI Certific and analytes reported fr tification, with the exce	eation ID: OR100062 (Priman om work performed at Apex Labo <u>ption</u> of any analyte(s) listed below	ry Accreditation) - EPA ratories are included on Apex w:	ID: OR01039 Laboratories' ORELAP
All methods a Scope of Cert	TNI Certific and analytes reported fr tification, with the <u>exce</u>	ation ID: OR100062 (Priman om work performed at Apex Labo <u>ption</u> of any analyte(s) listed below	ry Accreditation) - EPA ratories are included on Apex w:	ID: OR01039 Laboratories' ORELAP

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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

314 W 15h Street Suite 300 Project Number: 2017-074 Repart ID: Network, WA 9860 Project Manager: Craig Hulgren ABH0328-08 21 18 1032	HydroCon LLC	Project: <u>Coleman Wenatchee</u>	
Vancouver, WA 98600 Project Managet: Craig Hungren ABH0328-06 21 18 1032 APEX LABS COOLER RECEIPT FORM Client:	314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
DEEX LABS COOLER RECEIPT FORM Client Project/Project #:	vancouver, wA 98660	Project Manager: Craig Huitgren	A8H0328 - 08 21 18 1032
Vends 2017-079, Matched by time + process of eliminations Labeled by: Witness: Cooler Inspected by: See Project Contact Form: Y	Vancouver, WA 98660 Client: Hill Multiplication Project/Project #:	Project Manager: Craig Hultgren APEX LABS COOLER RECEIPT FORM A Element WO#: A8_H LOLEMAN Orl 55 @ \$\frac{1}{2} 18} By: State UPS X Swift Senvoy SDS uspected by: MM Yes No Yes No Yes No Cooler #1 Cooler #2 Cooler #1 Cooler #2 Cooler #1 Cooler #2 Cooler #1 Cooler #2 Cooler #1 Cooler #3 Cooler #1 Cooler #4 Cooler #1 Cooler #3 Cooler #1 Cooler #4 Cooler #1 Cooler #3 Cooler #1 Cooler #4 Cooler #1 Cooler #3 Cooler #1 Cooler #3 Cooler #1 Cooler #4 Cooler #1 Cooler #4 Cooler #1 Cooler #3 Cooler #1 Cooler #3 Cooler #1 Cooler #4 Cooler #1 Cooler #4 Cooler #1 Cooler #4 Coomments:<	248H0328 - 08 21 18 1032

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



Wednesday, September 5, 2018

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

RE: A8H0529 - 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 A8H0529, which was received by the laboratory on 8/18/2018 at 10:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>Idomenighini@apex-labs.com</u>, 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.

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.



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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMA	ΓΙΟΝ		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW29-15	A8H0529-01	Soil	08/13/18 08:05	08/18/18 10:30
MW29-24	A8H0529-02	Soil	08/13/18 08:35	08/18/18 10:30
MW29-34	A8H0529-03	Soil	08/13/18 09:20	08/18/18 10:30
MW29-40	A8H0529-04	Soil	08/13/18 09:40	08/18/18 10:30
MW30-15	A8H0529-05	Soil	08/14/18 08:30	08/18/18 10:30
MW30-20	A8H0529-06	Soil	08/14/18 08:50	08/18/18 10:30
MW30-28	А8Н0529-07	Soil	08/14/18 09:30	08/18/18 10:30
MW30-32	A8H0529-08	Soil	08/14/18 09:40	08/18/18 10:30
MW30-40	A8H0529-09	Soil	08/14/18 10:00	08/18/18 10:30
MW31-19	A8H0529-10	Soil	08/15/18 07:45	08/18/18 10:30
MW31-28	A8H0529-11	Soil	08/15/18 08:30	08/18/18 10:30
MW31-38	А8Н0529-12	Soil	08/15/18 09:00	08/18/18 10:30
MW0912-35	А8Н0529-13	Soil	08/16/18 07:40	08/18/18 10:30
MW1012-35	А8Н0529-14	Soil	08/16/18 13:45	08/18/18 10:30
MW32-10	А8Н0529-15	Soil	08/17/18 07:20	08/18/18 10:30
MW32-14	A8H0529-16	Soil	08/17/18 07:40	08/18/18 10:30
MW32-28	A8H0529-17	Soil	08/17/18 09:00	08/18/18 10:30
SL01-02	A8H0529-18	Soil	08/17/18 09:40	08/18/18 10:30

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

HydroCon LLC		Proje	ect: <u>Co</u>	leman Wenatchee				
314 W 15th Street Suite 300		Project	Number: 201	7-074			<u>Report</u>	t ID:
Vancouver, WA 98660		Project 1	Manager: Cra	aig Hultgren			A8H0529 - 09 ()5 18 1443
		ANALYTIC	CAL SAMI	PLE RESULTS				
	Dies	el and/or Oi	l Hydrocar	bons by NWTPH	l-Dx			
	Sample	Detection	2 eporting			Date		
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRLey	Methoy 2 efd	Notes
MW29-15 (A8H0529-01)				Ba	tch: 8081060			
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
511	ND		- z dz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recov	ery: 72 %	Limits: 50-150 %	1	08/24/18	NWTPH-Dx	
MW29-24 (A8H0529-02)				Matrix: Soil		Ва	tch: 8081060	
Diesel	81.2	HH	8- dz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	F-13
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recov	ery: 87 %	Limits: 50-150 %	1	08/24/18	NWTPH-Dx	
MW29-34 (A8H0529-03)	Matrix: Soil Batch: 8081060							
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recov	ery: 92%	Limits: 50-150 %	1	08/24/18	NWTPH-Dx	
MW29-40 (A8H0529-04)		Matrix: Soil				Ва	tch: 8081060	
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/83/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recov	very: 84 %	Limits: 50-150 %	1	08/24/18	NWTPH-Dx	
MW30-15 (A8H0529-05)				Matrix: Soil		Ва	tch: 8081025	
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/88/10	Nk WPTHDx	
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/88/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recover	ry: 100 %	Limits: 50-150 %	1	08/22/18	NWTPH-Dx	
MW30-20 (A8H0529-06)				Matrix: Soil		Ва	tch: 8081025	
Diesel	424	HH	8- dz	mg/6g yrR	1	z0/88/10	Nk WPTHDx	F-13
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/88/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recover	ry: 102 %	Limits: 50-150 %	1	08/22/18	NWTPH-Dx	
MW30-28 (A8H0529-07)				Matrix: Soil		Ва	tch: 8081025	
Diesel	1900	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	
Surrogate: o-Terphenyl (Surr)		Recove	ry: 108 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx	
MW30-32 (A8H0529-08)				Matrix: Soil		Ва	tch: 8081025	
Diesel	407	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13

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

<u>HydroCon LLC</u>		Project:	Co	leman Wenatchee					
314 W 15th Street Suite 300		Project Nur	mber: 201	17-074			Report	<u>Report ID:</u>	
Vancouver, WA 98660		Project Mar	nager: Cr	aig Hultgren			A8H0529 - 09 (05 18 1443	
		ANALYTICA	L SAM	PLE RESULTS					
	Dies	el and/or Oil H	ydrocar	bons by NWTPH	l-Dx				
	Sample	Detection 2	eporting			Date			
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRLey	Methoy 2 efd	Notes	
MW30-32 (A8H0529-08)				Matrix: Soil		Ba	tch: 8081025		
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
Surrogate: o-Terphenyl (Surr)		Recovery:	103 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW30-40 (A8H0529-09)				Matrix: Soil		Ba	tch: 8081025		
Diesel	266	HH	84 d G	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13, F-15	
Oil	250	HH	- Od	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-03, F-16	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW31-19 (A8H0529-10)				tch: 8081025					
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
Surrogate: o-Terphenyl (Surr)		Recovery:	104 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW31-28 (A8H0529-11)		Matrix: Soil Ba			tch: 8081025				
Diesel	564	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13	
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
Surrogate: o-Terphenyl (Surr)		Recovery:	98 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW31-38 (A8H0529-12)				Matrix: Soil		Ba	tch: 8081025		
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
5 il	ND	HH	-z¢z	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
Surrogate: o-Terphenyl (Surr)		Recovery:	85 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW0912-35 (A8H0529-13)				Matrix: Soil		Ba	tch: 8081025		
Diesel	176	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13, F-15	
Oil	117	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-03, F-16	
Surrogate: o-Terphenyl (Surr)		Recovery:	89 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW1012-35 (A8H0529-14)				Matrix: Soil		Ba	tch: 8081025		
Diesel	50.6	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx	F-13	
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
Surrogate: o-Terphenyl (Surr)		Recovery:	86 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx		
MW32-10 (A8H0529-15)				Matrix: Soil		Ba	tch: 8081025		
Diesel	ND	HH	8- dz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		
5 il	ND	HH	-zdz	mg/6g yrR	1	z0/80/10	Nk WPTHDx		

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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Proj Project Project	ect: <u>Cole</u> Number: 201' Manager: Cra	<u>eman Wenatchee</u> 7-074 ig Hultgren			<u>Repor</u> A8H0529 - 09	<u>t ID:</u> 05 18 1443
		ANALYTI	CAL SAMP	PLE RESULTS				
	Die	sel and/or O	il Hydrocart	oons by NWTPI	H-Dx			
AnalRte	Sample 2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Date AnalRUey	Methoy 2 efd	Notes
MW32-10 (A8H0529-15)				Matrix: Soil		Ba	tch: 8081025	
Surrogate: o-Terphenyl (Surr)		Reco	very: 95 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx	
MW32-14 (A8H0529-16RE1)				Matrix: Soil		Ba	tch: 8081025	
Diesel 5 il Surrogate: o-Terphenyl (Surr)	3400 ND	HH HH Recove	81(300 ery: 110%	mg/6g yrR mg/6g yrR Limits: 50-150 %	1z 1z 10	z0/8O10 z0/8O10 08/23/18	NK WPTHDX NK WPTHDX NWTPH-Dx	F-13
			•	Matrix: Soil		Ba	tch: 8081025	
Diesel 5 il	ND ND	HHH HHH	8- dz - z dz	mg/6g yrR mg/6g yrR	1 1	z0/8O/10 z0/8O/10	Nk ₩PTHDx Nk ₩PTHDx	
Surrogate: o-Terphenyl (Surr)		Recon	very: 76 %	Limits: 50-150 %	1	08/23/18	NWTPH-Dx	

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

HydroCon LLC		Project:	Co	leman Wenatchee				
314 W 15th Street Suite 300		Project Nur	mber: 201	17-074			Report l	<u>D:</u>
Vancouver, WA 98660		Project Mar	nager: Cr	aig Hultgren			A8H0529 - 09 05	18 1443
		ANALYTICA	L SAM	PLE RESULTS				
Gasol	line Range Hyd	drocarbons (Be	nzene t	hrough Naphtha	lene) by	NWTPH-G	ix	
	Sample	Detection 2	eporting			Date		
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRLey	Methoy 2 efd	Notes
MW29-15 (A8H0529-01)				Matrix: Soil		Ва	atch: 8080916	
) asoline 2 ange 5 rganics	ND	HH	- d44	mg/6g yrR	- Z	z0/8z/10	Nk WPTH, x 9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			90 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW29-24 (A8H0529-02)				Matrix: Soil		Ва	atch: 8080916	
Gasoline Range Organics	33.6	HH	GB-	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	104 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			91 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW29-34 (A8H0529-03)		Matrix: Soil Batch: 6						
) asoline 2 ange 5 rganics	ND	HH	- d 83	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			91 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW29-40 (A8H0529-04)		Matrix: Soil Batch: 8080917				atch: 8080917		
) asoline 2 ange 5 rganics	ND	HH	- dl -	mg/6g yrR	- Z	z0/8z/10	Nk WPTH x 9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	104 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW30-15 (A8H0529-05)				Matrix: Soil		Ва	atch: 8080916	
) asoline 2 ange 5 rganics	ND	нн	- d)4	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			91 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW30-20 (A8H0529-06)				Matrix: Soil		Ва		
Gasoline Range Organics	132	HH	4dl G	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	157 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)	S-08
1,4-Difluorobenzene (Sur)			87 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)	
MW30-28 (A8H0529-07RE1)				Matrix: Soil		Ba	atch: 8080959	
Gasoline Range Organics	618	HH	- 4dD	mg/6g yrR	- ZZ	z0/81/10	Nk WPTH x 9MS7	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	113 %	Limits: 50-150 %	1	08/21/18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	08/21/18	NWTPH-Gx (MS)	
MW30-32 (A8H0529-08)				Matrix: Soil		Ba	atch: 8080917	
Gasoline Range Organics	96.2	HH	- d 0	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7	

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

HydroCon LLC		Project:	Co	leman Wenatchee					
314 W 15th Street Suite 300		Project Nu	mber: 201	17-074			<u>Report I</u>	<u>D:</u>	
Vancouver, WA 98660		Project Ma	nager: Cr	aig Hultgren			A8H0529 - 09 05 18 1443		
		ANALYTICA	L SAMI	PLE RESULTS					
Gaso	line Range Hyd	rocarbons (Be	enzene t	hrough Naphtha	llene) by	NWTPH-G)x		
	Sample	Detection	2 eporting			Date			
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRLey	Methoy 2 efd	Notes	
MW30-32 (A8H0529-08)				Matrix: Soil		Ba	atch: 8080917		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	120 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			99 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW30-40 (A8H0529-09)				Matrix: Soil		Ва	atch: 8080917		
) asoline 2 ange 5 rganics	ND	HH	4d0z	mg/6g yrR	- Z	z0/8z/10	Nk WPTH x 9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	104 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW31-19 (A8H0529-10)	Matrix: Soil Bat						atch: 8080917		
) asoline 2 ange 5 rganics	ND	HH	- 681	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	104 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW31-28 (A8H0529-11)	Matrix: Soil Batch: 8080917								
Gasoline Range Organics	125	HH	3d 8	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	144 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW31-38 (A8H0529-12)				Matrix: Soil		B	atch: 8080917		
) asoline 2 ange 5 rganics	ND	HH	- & O	mg/6g yrR	- Z	z0/8z/10	Nk WPTH x 9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	106 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW0912-35 (A8H0529-13)				Matrix: Soil		B	atch: 8080917		
Gasoline Range Organics	12.8	HH	4d#1	mg/6g yrR	- Z	z0/8z/10	Nk WPTHJx9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	108 %	Limits: 50-150 %	1	08/20/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	08/20/18	NWTPH-Gx (MS)		
MW1012-35 (A8H0529-14)				Matrix: Soil		Ba	atch: 8080959		
) asoline 2 ange 5 rganics	ND	HH	3dG4	mg/6g yrR	- Z	z0/81/10	Nk WPTH x 9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	107 %	Limits: 50-150 %	1	08/21/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)			96 %	50-150 %	1	08/21/18	NWTPH-Gx (MS)		
MW32-10 (A8H0529-15)				Matrix: Soil		Ba	atch: 8080959		
) asoline 2 ange 5 rganics	ND	HH	- dz(mg/6g yrR	- Z	z0/81/10	Nk WPTH x 9MS7		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	105 %	Limits: 50-150 %	1	08/21/18	NWTPH-Gx (MS)		

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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Proj Project Project	ect: <u>Col</u> Number: 201 Manager: Cra	<u>eman Wenatchee</u> 7-074 .ig Hultgren			<u>Report I</u> A8H0529 - 09 05	<u>D:</u> 18 1443
		ANALYTI	CAL SAMP	PLE RESULTS				
Gasolir	e Range Hy	drocarbons	(Benzene th	rough Naphth	alene) by	NWTPH-G	x	
AnalRte	Sample 2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Date AnalRLey	Methoy 2 efd	Notes
MW32-10 (A8H0529-15)				Matrix: Soil		Ba	itch: 8080959	
Surrogate: 1,4-Difluorobenzene (Sur)		Reco	very: 96 %	Limits: 50-150 %	6 1	08/21/18	NWTPH-Gx (MS)	
				Matrix: Soil		Ba	itch: 8081010	
Gasoline Range Organics	1930	HH	3Gł	mg/6g yrR	- zz	z0/88/10	Nk WPTH x 9MS7	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 163 % 97 %	Limits: 50-150 %	6 1 6 1	08/22/18 08/22/18	NWTPH-Gx (MS) NWTPH-Gx (MS)	S-04
MW32-28 (A8H0529-17RE1)			4	Matrix: Soil		Ba	tch: 8081010	

) asoline 2 ange 5 rganics	ND	HHH - dO0	mg/6g yrR	- Z	z0/88/10	Nk WPTH x 9MS7
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 107 %	Limits: 50-150 %	1	08/22/18	NWTPH-Gx (MS)
1,4-Difluorobenzene (Sur)		97 %	50-150 %	1	08/22/18	NWTPH-Gx (MS)

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

HydroCon LLC		Project:	Col	eman Wenatchee					
314 W 15th Street Suite 300		Project Nur	mber: 201	7-074			Report ID:		
Vancouver, WA 98660		Project Mar	nager: Cra	ig Hultgren			A8H0529 - 09	05 18 1443	
		ANALYTICA	L SAMP	PLE RESULTS					
		BTEX Comp	ounds b	y EPA 8260C					
	Sample	Detection 2	eporting			Date			
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRUey	Methoy 2 efd	Notes	
MW29-15 (A8H0529-01)				Matrix: Soil		Ва	tch: 8080916		
Benlène	ND	HH	z¢110	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-44	mg/6g yrR	- z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz800	mg/6g yrR	- z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz03(mg/6g yrR	- z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			100 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	08/20/18	5035A/8260C		
MW29-24 (A8H0529-02)				Batch: 8080916					
Benlène	ND	HH	zdz13(mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zæG-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenLene	ND	HH	zdz000	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC	XHQ(
E Rlenes, total	ND	HH	zdl18	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC	XHQ(
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	08/20/18	5035A/8260C		
MW29-34 (A8H0529-03)		Matrix: Soil Batch: 8		tch: 8080916					
Benlène	ND	HH	zdz1z-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-83	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz848	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	z&:004	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	95 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)	·		104 %	80-120 %	1	08/20/18	5035A/8260C		
MW29-40 (A8H0529-04)		Matrix: Soil				Ва	tch: 8080917		
Benlene	ND	HH	zdz1zO	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-1-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz8-0	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz660	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
MW30-15 (A8H0529-05)				Matrix: Soil		Ва	tch: 8080916		
BenUene	ND	HH	zdz11G	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		

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

HydroCon LLC		Project:	Col	eman Wenatchee					
314 W 15th Street Suite 300		Project Nu	mber: 201	7-074			<u>Report ID:</u>		
Vancouver, WA 98660		Project Mar	nager: Cra	ig Hultgren			A8H0529 - 09	05 18 1443	
		ANALYTICA	L SAMP	PLE RESULTS					
		BTEX Comp	ounds b	y EPA 8260C					
	Sample	Detection 2	2 eporting			Date			
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRUey	Methoy 2 efd	Notes	
MW30-15 (A8H0529-05)				Matrix: Soil		Ba	tch: 8080916		
Woluene	ND	HH	zdz-04	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz8(0	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz0Q(mg/6g yrR	- z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/20/18	5035A/8260C		
MW30-20 (A8H0529-06)			atch: 8080916						
Benlène	ND	HH	zdz180	mg/6g yrR	- Z	z0/8z/10	- zO-A/084zC		
Woluene	ND	HH	zdz41G	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdzOz0	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz(8-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	90 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			95 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
MW30-28 (A8H0529-07)				Matrix: Soil		Ba	tch: 8080917		
Benlène	ND	HH	zdz110	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-40	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Ethylbenzene	0.0473	HH	zdz801	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Xylenes, total	0.123	HH	zdz033	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC	M-02	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
MW30-32 (A8H0529-08)				Matrix: Soil		Ba	tch: 8080917		
Benlene	ND	HH	zdz118	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz0	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz8Q(mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz00G	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	08/20/18	5035A/8260C		
MW30-40 (A8H0529-09)				Matrix: Soil		Ba	tch: 8080917		
BenUene	ND	HH	zdz104	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz40z	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		

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

HydroCon LLC		Project:	: <u>Col</u>	eman Wenatchee					
314 W 15th Street Suite 300		Project Nu	umber: 201	7-074			Report	ID:	
Vancouver, WA 98660		Project Ma	nager: Cra	ig Hultgren			A8H0529 - 09 05 18 1443		
		ANALYTICA	L SAMF	PLE RESULTS					
		BTEX Comp	ounds b	y EPA 8260C					
	Sample	Detection	2 eporting			Date			
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRLey	Methoy 2 efd	Notes	
MW30-40 (A8H0529-09)				Matrix: Soil		Ba	tch: 8080917		
QthRlbenUene	ND	HH	zdzŒz	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Xylenes, total	0.109	HH	zdlz8	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
MW31-19 (A8H0529-10)				Matrix: Soil		Ba	tch: 8080917		
Benlène	ND	HH	zdz1z3	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-81	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz841	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz(308	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C		
MW31-28 (A8H0529-11)				Matrix: Soil		Ba	tch: 8080917		
Benlène	ND	HH	zdzz(z3	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz3-8	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz884	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz4C0	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
MW31-38 (A8H0529-12)				Matrix: Soil		Ba	tch: 8080917		
Benlène	ND	HH	zdz1z-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz-80	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
QthRlbenUene	ND	HH	zdz848	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
E Rlenes, total	ND	HH	zdz@-	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits: 80-120 %	1	08/20/18	5035A/8260C		
Toluene-d8 (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/20/18	5035A/8260C		
MW0912-35 (A8H0529-13)				Matrix: Soil		Ba	tch: 8080917		
BenLène	ND	HH	zdz108	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		
Woluene	ND	HH	zdz441	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC		

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

HydroCon LLC		Proje	ct: <u>Cole</u>	eman Wenatchee				
314 W 15th Street Suite 300		Project 1		Report ID:				
Vancouver, WA 98660		Project N	A8H0529 - 09 05 18 1443					
		ANALYTIC	CAL SAMP	LE RESULTS				
		BTEX Con	npounds by	y EPA 8260C				
	Sample	Detection	2 eporting			Date		
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRUey	Methoy 2 efd	Notes
MW0912-35 (A8H0529-13)				Matrix: Soil		Ва	tch: 8080917	
Xylenes, total	0.495	HH	zdz((1	mg/6g yrR	- Z	z0/8z/10	- zO A/084zC	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 102 %	Limits: 80-120 %	1	08/20/18	5035A/8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/20/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/20/18	5035A/8260C	
MW1012-35 (A8H0529-14)				Matrix: Soil		Ва	tch: 8080959	
BenUene	ND	HH	zdzz(-O	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Woluene	ND	HH	z¢z3G4	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
QthRlbenUene	ND	HH	zdz800	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
E Rlenes, total	ND	HH	zdzGl3	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 102 %	Limits: 80-120 %	1	08/21/18	5035A/8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/21/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	08/21/18	5035A/8260C	
MW32-10 (A8H0529-15)				Matrix: Soil		Ba	tch: 8080959	
Benlene	ND	нн	zdz1z8	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Woluene	ND	HH	zdz-z(mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
QthRlbenUene	ND	HH	zdz8	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
E Rlenes, total	ND	HH	zdzG43	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 102 %	Limits: 80-120 %	1	08/21/18	5035A/8260C	
Toluene-d8 (Surr)			99 %	80-120 %	1	08/21/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/21/18	5035A/8260C	
MW32-14 (A8H0529-16)				Matrix: Soil		Ва	tch: 8080959	
Benlene	ND	HH	zdzz(-z	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Woluene	ND	HH	z¢z3G-	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
QthRlbenUene	ND	HH	zdz800	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
E Rlenes, total	ND	HH	zdzGlO	mg/6g yrR	- Z	z0/81/10	- zO A/084zC	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 103 %	Limits: 80-120 %	1	08/21/18	5035A/8260C	
Toluene-d8 (Surr)			99 %	80-120 %	1	08/21/18	5035A/8260C	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/21/18	5035A/8260C	
MW32-28 (A8H0529-17RE1)				Matrix: Soil		Ba	tch: 8081010	
Bentene	ND	HH	zdz1z0	mg/6g yrR	- Z	z0/88/10	- zO A/084zC	
Woluene	ND ND	HHH HHH	zdz1z0 zdz-00	mg/6g yrR mg/6g yrR	- Z - Z	z0/88/10 z0/88/10	- zO A/084zC - zO A/084zC	
Benlène Woluene QthRlbenlène	ND ND ND	HH HH HH	z&1z0 z&-00 z&84(mg/6g yrR mg/6g yrR mg/6g yrR	- Z - Z - Z	z0/88/10 z0/88/10 z0/88/10	- zO A/084zC - zO A/084zC - zO A/084zC	

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Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Apex Laboratories, LLC

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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Proj Project Project	<u>Report ID:</u> A8H0529 - 09 05 18 1443							
		ANALYTI	CAL SAMP	PLE RESULT	ſS					
BTEX Compounds by EPA 8260C										
AnalRte	Sample 2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Date AnalRLey	Methoy 2 efd	Notes		
MW32-28 (A8H0529-17RE1)				Matrix: So	pil	Bat	tch: 8081010			
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120	% 1	08/22/18	5035A/8260C			

98 %

99%

80-120 %

80-120 %

1

1

08/22/18

08/22/18

5035A/8260C

5035A/8260C

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

HydroCon LLC		Pro	ject: <u>Coler</u>	nan Wenatchee					
314 W 15th Street Suite 300		Project	<u>Report ID:</u>						
Vancouver, WA 98660		Project	Manager: Craig	Hultgren			A8H0529 - 09 05 18 1443		
		ANALYTI	CAL SAMPI	LE RESULTS					
		Pe	ercent Dry We	eight					
AnalRte	Sample 2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Date AnalRLey	Methoy 2 efd	Notes	
MW29-15 (A8H0529-01)		Matrix: Soil E					tch: 8080919		
% Solids	93.6	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW29-24 (A8H0529-02)				Matrix: Soil		Ва	tch: 8080919		
% Solids	86.2	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW29-34 (A8H0529-03)				Matrix: Soil		Ba	tch: 8080919		
% Solids	88.7	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW29-40 (A8H0529-04)				Matrix: Soil		Ba	tch: 8080919		
% Solids	87.2	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW30-15 (A8H0529-05)				Matrix: Soil		Ва	tch: 8080919		
% Solids	87.0	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW30-20 (A8H0529-06)				Matrix: Soil		Ва	tch: 8080919		
% Solids	80.7	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW30-28 (A8H0529-07)				Matrix: Soil		Ва	tch: 8080919		
% Solids	85.9	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW30-32 (A8H0529-08)				Matrix: Soil		Ва	tch: 8080919		
% Solids	83.5	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW30-40 (A8H0529-09)				Matrix: Soil		Ва	tch: 8080919		
% Solids	73.1	HH	1¢z	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW31-19 (A8H0529-10)				Matrix: Soil		Ва	tch: 8080919		
% Solids	88.6	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW31-28 (A8H0529-11)				Matrix: Soil		Ва	tch: 8080919		
% Solids	89.2	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW31-38 (A8H0529-12)				Matrix: Soil		Ba	tch: 8080919		
% Solids	80.9	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC		
MW0912-35 (A8H0529-13)				Matrix: Soil		Ва	tch: 8080919		

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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660		Proj Project Project	ect: <u>Cole</u> Number: 2017 Manager: Craig	man Wenatchee -074 g Hultgren			<u>Report</u> A8H0529 - 09 05	<u>ID:</u> 5 18 1443
[CAL SAMPI	LE RESULIS				
		Pe	ercent Dry W	eight				
AnalRte	Sample 2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Date AnalRLey	Methoy 2 efd	Notes
MW0912-35 (A8H0529-13)				Matrix: Soil		Bat	ch: 8080919	
% Solids	82.5	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC	
MW1012-35 (A8H0529-14)				Matrix: Soil		Bat	ch: 8080919	
% Solids	88.3	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC	
MW32-10 (A8H0529-15)				Matrix: Soil		Bat	ch: 8080919	
% Solids	89.1	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC	
MW32-14 (A8H0529-16)				Matrix: Soil		Bat	ch: 8080919	
% Solids	89.4	HH	1dzz	% bRk eight	1	z0/81/10	QPA 0zzzC	
MW32-28 (A8H0529-17)				Matrix: Soil		Bat	ch: 8080919	
% Solids	83.0	HH	1¢z	% bRk eight	1	z0/81/10	QPA 0zzzC	

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

<u>HydroCon LLC</u>	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0529 - 09 05 18 1443

Analytical Resources, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

Washington Department of Ecology Methods											
- ID-	Sample	Detection	2 eporting		D'1 ('	Date					
AnalRte	2 esult	Limit	Limit	. nits	Dilution	AnalRUey	Methoy 2 efd	Notes			
SL01-02 (A8H0529-18)				Matrix: Soil		Bat	ch: BGH0567				
Batch: BGH0567											
C-IIC4 Aliphatics	ND	80 B	- 4d0	mg/6g yrR	(zz	z0/88/10	k A wPT				
C6-C8 Aliphatics	31.5	80 B	- 4d)	mg/6g yrR	(zz	z0/88/10	k A wPT	J, D			
C8-C10 Aliphatics	427	80 B	- 4d)	mg/6g yrR	(zz	z0/88/10	k A wPT	D			
C10-C12 Aliphatics	1260	80 B	- 4d0	mg/6g yrR	(zz	z0/88/10	k A wPT	D			
C8-C10 Aromatics	605	80 B	- 4d0	mg/6g yrR	(zz	z0/88/10	k A wPT	D			
C10-C12 Aromatics	995	80 B	- 4d)	mg/6g yrR	(zz	z0/88/10	k A wPT	D			
C12-C13 Aromatics	801	80 B	- 4d0	mg/6g yrR	(zz	z0/88/10	k A wPT	D			
Batch: BGH0567											
Surrogate: PID: 2,5-Dibromotoluene		Recover	ry: 130 %	Limits: 60-140 %	1	08/22/18	WA VPH				
FID: 2,5-Dibromotoluene			117 %	60-140 %	1	08/22/18	WA VPH				
SL01-02 (A8H0529-18RE1)				Matrix: Soil		Bat	ch: BGH0638				
Batch: BGH0638											
C8-C10 Aliphatics	625	QĮ (83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C10-C12 Aliphatics	2480	1d 4	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C12-C16 Aliphatics	8580	8dl 8	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C16-C21 Aliphatics	5390	Q\$80	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C21-C34 Aliphatics	458	8dD-	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C8-C10 Aromatics	39.4	- dGl	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C10-C12 Aromatics	130	QB 0	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C12-C16 Aromatics	481	1dCG	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C16-C21 Aromatics	535	GdDz	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
C21-C34 Aromatics	201	1z B	83 B	mg/6g yrR	1z	z(/z-/10	k A QPT	D			
Batch: BGH0638											
Surrogate: o-Terphenyl		Recover	y: 75.3 %	Limits: 30-160 %	10	09/05/18	WA EPH				
1-Chloro-octadecane			56.7 %	30-160 %	10	09/05/18	WA EPH				

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Lisa Domenighini, Client Services Manager



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Apex Laboratories, LLC

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

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HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesei and/o	or Oli Hydr	ocarboi	ns by NW	PH-DX					
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8081025 - EPA 3546 (F	uels)						Soil					
Blank (8081025-BLK1)		Preparey	z0/88/10 10	Q AnalRLey	/: z0/88/1	0 88:80						
NWTPH-Dx												
Diesel	ND	HH	8- dz	mg/6g F et	1	HH	HH	HH	HH	H⊞H	HH	
5 il	ND	HH	-zdz	mg/6g F et	1	HH	HH	HH	HH	HH	HH	
Surr: o-Terphenyl (Surr)		Reco	very: 103 %	Limits: 50-1	50 %	Dih	ution: 1x					
LCS (8081025-BS1)		Preparev	z0/88/10 1C	O AnalRLev	/: z0/88/1	0 88:3-		Ť				
NWTPH-Dx		1 5		· ·								
Diesel	113	HH	8- dz	mg/6g F et	1	18-	HH	(1	G4H1-%	HH	HH	
Surr: o-Terphenyl (Surr)		Reco	very: 102 %	Limits: 50-1	50 %	Dili	ution: 1x					
Duplicate (8081025-DUP1)		Preparey	: z0/88/10 1C	Q AnalRLey	/: z0/88/1	0 80.8G						
QC Source Sample: MW30-15 (A	A8H0529-05)											
<u>NWTPH-Dx</u>												
Diesel	ND	HH	8- dz	mg/6g yrR	1	HH	ND	HH	HH	HH	Oz%	
5 il	ND	HH	- zdz	mg/6g yrR	. 1	HH	ND	HH	HH	HH	Oz%	
Surr: o-Terphenyl (Surr)		Reco	overy: 98%	Limits: 50-1	50 %	Dilı	ution: 1x					
Batch 8081060 - EPA 3546 (F	uels)						Soil					
Blank (8081060-BLK2)		Preparey	z0/80/10 1z	:1z AnalRUe	/: z0/83/1	0 18:zz						
NWTPH-Dx												
Diesel	ND	HH	8- dz	mg/6g F et	1	HH	HH	HH	HH	H∎H	HH	
5 il	ND	HH	-zdz	mg/6g F et	1	HH	HH	HH	HH	H⊞H	HH	
Surr: o-Terphenyl (Surr)		Reco	overy: 91 %	Limits: 50-1	50 %	Dilı	ution: 1x					
LCS (8081060-BS1)		Preparey	z0/80/10 1z	:1z AnalRUe	/: z0/83/1	.0 zOz(
<u>NWTPH-Dx</u>												
Diesel	113	HH	8- dz	mg/6g F et	1	18-	HH	(1	G4H1-%	H⊞	HH	
Surr: o-Terphenyl (Surr)		Reco	very: 102 %	Limits: 50-1	50 %	Dilı	ution: 1x					

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HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Ben	zene throu	ugh Naph	thalene) l	by NWTF	PH-Gx			
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8080916 - EPA 5035A							Soil					
Blank (8080916-BLK1)		Preparey	: z0/8z/10 z(zz AnalR	Ley: z0/8z/1	0 11:Oz						
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	ND	HH	ODO	mg/6g ł	et - z	HH	HH	HH	HH	HH	HH	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 96 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			90 %	5	0-150 %		"					
							Þ					
LCS (8080916-BS2)		Preparey	: z0/8z/10 z(zz Analk	Ley: z0/8z/1	0 11:zO						
<u>NWIPH-GX (MS)</u>	202	1111	1			0 1		(0)	0-110-0/			
) asoline 2 ange 5 rganics	800		- dž z	mg/6g I	et -z	8- dž		(0	UZH 8Z%		HHH	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 95 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			95%	5	0-150 %							
Duplicate (8080916-DUP1)		Preparey	: z0/1010 z0	O AnalR	Ley: z0/8z/1	0 13:18						
QC Source Sample: MW29-24 (A	8H0529-02)											
<u>NWTPH-Gx (MS)</u>												
) asoline 2 ange 5 rganics	37.6	HH	- dDD	mg/6g y	rR -z	HH	00#	HH	HH	11	Oz%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 106 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			91 %	5	0-150 %		"					
Duplicate (8080916-DUP2)		Preparey	: z0/13/10 z0	Oz AnalR	Ley: z0/8z/1	0 1-:00						
QC Source Sample: MW30-15 (A	.8H0529-05)											
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	ND	HH	4&z	mg/6g y	/rR - z	HH	ND	HH	HH	HH	Oz%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 95 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			93 %	5	0-150 %		"					

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

HydroCon LLC	Project: Coleman Wenate	<u>chee</u>
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoli	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene) I	by NWTF	PH-Gx				
2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Not	tes
						Soil						
	Preparey	z0/8z/10 z(zz AnalR:	Ley: z0/8z/1	0 18:30							
ND	HH	OTD)	mg/6g F	et - z	HH	HH	HH	HH	HH	HH		
	Reco	overy: 98 %	Limits: 5	0-150 %	Dili	ution: 1x						
		93 %	51	0-150 %		"						
	Preparey	z0/8z/10 z(zz AnalR:	Ley: z0/8z/1	0 18:14							
83 B	HH	- dzz	mg/6g F	et -z	8- dz	HH	(G	0zH8z%	HH	HH		
	Reco	overy: 96 %	Limits: 5	0-150 %	Dili	ution: 1x						
		95 %	5	0-150 %		"						
	Preparey	: z0/14/10 zG	3z AnalR	Uey: z0/8z/1	0 80.8-							T-02
(A8H0529-1	3)											
24.0	HH	0dD8	mg/6g y	vrR - z	HH	18 d 0	HH	HH	61	30%	XHz-	
	Recon	very: 109 %	Limits: 5	0-150 %	Dili	ution: 1x						
		98 %	5	0-150 %		"						
	Gasolin 2 esult ND 83& (A8H0529-1 24.0	Gasoline Range H 2 esult Detection Limit Preparey ND HH Reco 9 83c8 HH Reco Preparey 83c8 HH Reco 24.0 HH	Gasoline Range Hydrocarbo 2 esult Detection Limit 2 eporting Limit Preparey: z0/8z/10 z(ND HH QCO Recovery: 98 % 93 % 93 % Preparey: z0/8z/10 z(83c8 HH - dzz Recovery: 96 % 95 % 95 % Preparey: z0/14/10 zO (A8H0529-13) HH 0d78 24.0 HH 0d78 Recovery: 109 % 98 %	Gasoline Range Hydrocarbons (Benzilla Contention of the second of the s	Gasoline Range Hydrocarbons (Benzene throu 2 esult Detection 2 eporting . nits Dilution 2 esult Limit Limit . nits Dilution Preparey: z0/8z/10 z(:zz AnalRLby: z0/8z/10 ND HH OtO mg/6g F et - z Recovery: 98 % Limits: 50-150 % 93 % 50-150 % 93 % 50-150 % Preparey: z0/8z/10 z(:zz AnalRLby: z0/8z/10 83ds HH - dzz mg/6g F et - z Recovery: 96 % Limits: 50-150 % 95 % 50-150 % 95 % 50-150 % Preparey: z0/14/10 zG3z AnalRLby: z0/8z/10 (A8H0529-13) Image figures: 50-150 % 24.0 HH 0d8 mg/6g yrR - z Recovery: 109 % Limits: 50-150 % 98 % 50-150 %	Gasoline Range Hydrocarbons (Benzene through Naph 2 esult Detection 2 eporting . nits Dilution Spiće 2 esult Limit Limit . nits Dilution Amount Preparey: z0/8z/10 z(:zz AnalRL&y: z0/8z/10 18:30 ND HH QDO mg/6g F et - z HH Recovery: 98 % Limits: 50-150 % Dilu 93 % 50-150 % Dilu Dilu 95 % 50-150 % Dilu Dilu 24.0 HH 0d 8 mg/6g yrR -z HH Recovery: 109 % Limits: 50-150 % Dilu 98 % 50-150 % Dilu Dilu	Gasoline Range Hydrocarbons (Benzene through Naphthalene) I 2 esult Detection 2 eporting Limit Spi6e Source 2 esult 2 esult Limit . nits Dilution Amount 2 esult Soil Preparey: z0/8z/10 z(:zz AnalRLėy: z0/8z/10 18:30 ND HH QLO mg/6g F et - z HH HH Recovery: 98 % Limits: 50-150 % Dilution: 1x 93 % 50-150 %	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTF 2 esult Detection 2 eporting Limit nits Dilution Spi6e Amount Source 2 esult % 2 QC Solit Preparey: z0/8z/10 z(:zz AnalRLby: z0/8z/10 18:30 ND HH QQO mg/6g F et -z HH HH HH Recovery: 98 % Limits: 50-150 % Dilution: Ix 93 % 50-150 % Dilution: Ix - - - Preparey: z0/8z/10 z(:zz AnalRLby: z0/8z/10 18:14 - <td< td=""><td>Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx2 esultDetection2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esult% 2 QC % 2 QC Limits2 esultDetection2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esult% 2 QC% 2 QC LimitsSoilPreparey: z0/8z/10 z(:zzAnalRLéy: z0/8z/10 18:30NDHHQODmg/6g F et 93 %- zHHHHHHRecovery:98 % 93 %Limits:50-150 % 50-150 %Dilution:Ix93 %50-150 % 50-150 %Dilution:Ix83dbHH- drzmg/6g F et 95 %- z8-dzHH(GPreparey:z0/14/10 zQ3z 2 MalRLéy:Z0/8z/10 8Q8-(A8H0529-13)24.0HHOd8mg/6g yrR 98 %Jilution:Ix 98 %Sol-150 % Bilution:24.0HHOd8mg/6g yrR 98 %- zHH18d0HHHHRecovery:100 % 98 %Limits:50-150 % 50-150 %Dilution:Ix 3</td><td>Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx2 esuitDetection Limit2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esuit% 2 QC% 2 QCLimits2 PDSoilSoilSoilSoilSoilSoilSoilSoilSoilNDHHQODmg/6g F et 93 %-zHHHHHHHHHHRecovery:98 %Limits: 50-150 %Dilution:Ix "IS3dsHH-dzmg/6g F et 50-150 %8-dcHH(G0zH8z%HHRecovery:96 %Limits: 50-150 %Dilution:Ix "IIIHHHH61Recovery:96 %Limits: Limits:Sol-150 %Dilution:Ix "IX "III61Preparey:20/14/10 zG3zAnalRLey: Limits:20/8z/10 8O8-IIIIIIII61Q4.0HH0d8mg/6g r r s ob-150 %IIIIIIIIIIII61Q4.0HH0d8mg/6g rr s ob-150 %HHI8d0HHHH61Q4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIII61Q4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIIIIIIIQ4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIIIIIIIIQ4.0HH0d78mg/6g rr s ob-150 %</td><td>Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx 2 esult Detection Limit 2 eporting Limit . nits Dilution Spi6e Amount Source 2 esult % 2 QC % 2 QC 2 PD Limit Soil Soil Source % 2 QC % 2 QC % 2 QC 2 PD Limit Soil Soil Soil Soil Soil Soil Soil ND HH QQO mg/6g F et -z HH So So So So<</td><td>Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx 2 esult Detection 2 eporting Limit . nits Dilution Spi6e Amount Source 2 esult % 2 QC Limits 2 PD Limit Not Solit 2 esult % 2 QC Limits 2 PD Limit Not Solit Preparey: z0/8z/10 z(:zz AnalRLéy: z0/8z/10 18:30 ND HH QDO mg/6g F et -z HH Source Source Source Source Source<</td></td<>	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx2 esultDetection2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esult% 2 QC % 2 QC Limits2 esultDetection2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esult% 2 QC% 2 QC LimitsSoilPreparey: z0/8z/10 z(:zzAnalRLéy: z0/8z/10 18:30NDHHQODmg/6g F et 93 %- zHHHHHHRecovery:98 % 93 %Limits:50-150 % 50-150 %Dilution:Ix93 %50-150 % 50-150 %Dilution:Ix83dbHH- drzmg/6g F et 95 %- z8-dzHH(GPreparey:z0/14/10 zQ3z 2 MalRLéy:Z0/8z/10 8Q8-(A8H0529-13)24.0HHOd8mg/6g yrR 98 %Jilution:Ix 98 %Sol-150 % Bilution:24.0HHOd8mg/6g yrR 98 %- zHH18d0HHHHRecovery:100 % 98 %Limits:50-150 % 50-150 %Dilution:Ix 3	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx2 esuitDetection Limit2 eporting Limit. nitsDilutionSpi6e AmountSource 2 esuit% 2 QC% 2 QCLimits2 PDSoilSoilSoilSoilSoilSoilSoilSoilSoilNDHHQODmg/6g F et 93 %-zHHHHHHHHHHRecovery:98 %Limits: 50-150 %Dilution:Ix "IS3dsHH-dzmg/6g F et 50-150 %8-dcHH(G0zH8z%HHRecovery:96 %Limits: 50-150 %Dilution:Ix "IIIHHHH61Recovery:96 %Limits: Limits:Sol-150 %Dilution:Ix "IX "III61Preparey:20/14/10 zG3zAnalRLey: Limits:20/8z/10 8O8-IIIIIIII61Q4.0HH0d8mg/6g r r s ob-150 %IIIIIIIIIIII61Q4.0HH0d8mg/6g rr s ob-150 %HHI8d0HHHH61Q4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIII61Q4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIIIIIIIQ4.0HH0d78mg/6g rr s ob-150 %Dilution:Ix rIIIIIIIIIQ4.0HH0d78mg/6g rr s ob-150 %	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx 2 esult Detection Limit 2 eporting Limit . nits Dilution Spi6e Amount Source 2 esult % 2 QC % 2 QC 2 PD Limit Soil Soil Source % 2 QC % 2 QC % 2 QC 2 PD Limit Soil Soil Soil Soil Soil Soil Soil ND HH QQO mg/6g F et -z HH So So So So<	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx 2 esult Detection 2 eporting Limit . nits Dilution Spi6e Amount Source 2 esult % 2 QC Limits 2 PD Limit Not Solit 2 esult % 2 QC Limits 2 PD Limit Not Solit Preparey: z0/8z/10 z(:zz AnalRLéy: z0/8z/10 18:30 ND HH QDO mg/6g F et -z HH Source Source Source Source Source<

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	lydrocarbo	ons (Ben	zene throu	igh Naph	thalene) I	by NWTP	H-Gx			
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8080959 - EPA 5035A							Soil					
Blank (8080959-BLK1)		Preparey	z0/81/10 z0:	10 AnalR	Ley: z0/81/1) 11:O						
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	ND	HH	OfDO	mg/6g I	et - z	HH	HH	HH	HH	H⊞	HH	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 100 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			96 %	5	0-150 %		"					
LCS (8080959-BS2)		Preparey	z0/81/10 z0:	10 AnalR	Ley: z0/81/1) 11:z0						
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	80 B	HH	- dzz	mg/6g I	et -z	8- dz	HH	(0	0zH8z%	HH	HH	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			99 %	5	0-150 %		"					
Duplicate (8080959-DUP2)		Preparey	z0/14/10 10	3- AnalR	Ley: z0/81/1	0 1(:33						
QC Source Sample: MW1012-35	(A8H0529-1	<u>4)</u>										
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	ND	HH	3 B 3	mg/6g y	rR -z	HH	ND	HH	HH	HH	Oz%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 109 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			97 %	5	0-150 %		"					

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

HydroCon LLC	Project: Coleman Wen	atchee
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgre	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoli	ne Range H	lydrocarbo	ons (Benze	ene thro	ugh Naph	thalene) b	by NWTP	H-Gx			
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8081010 - EPA 5035A							Soil					
Blank (8081010-BLK1)		Preparey:	z0/88/10 z0	zz AnalRUe	y: z0/88/1	0 18:CG						
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	ND	HH	OtD	mg/6g F e	t - z	HH	HH	HH	HH	H⊞H	HH	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 50-	150 %	Dila	ution: 1x					
1,4-Difluorobenzene (Sur)			96 %	50-1	150 %		"					
LCS (8081010-BS2)		Preparey:	z0/88/10 z0	zz AnalRU:	y: z0/88/1	0 18:1z						
NWTPH-Gx (MS)												
) asoline 2 ange 5 rganics	80 B	HH	- dzz	mg/6g F e	t-z	8- dz	HH	(3	0zH8z%	HH	HH	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 97 %	Limits: 50-	150 %	Dil	ution: 1x					
1,4-Difluorobenzene (Sur)			98 %	50-1	150%		"					

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

HydroCon LLC	Project: <u>Coleman V</u>	Venatchee
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hult	gren A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	nds by E	EPA 82600	>					
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Note
Batch 8080916 - EPA 5035A							Soil					
Blank (8080916-BLK1)		Preparey	z0/8z/10 z(:	zz AnalRU	ey: z0/8z/1	0 11:Oz						
5035A/8260C												
BenUene	ND	HH	zdzz44G	mg/6g F e	et - z	HH	HH	HH	HH	HH	H⊞	
Woluene	ND	HH	z\$2000	mg/6g F e	et - z	HH	HH	HH	HH	H∎H	HH	
QthRlbenUene	ND	HH	zdz14G	mg/6g F e	et - z	HH	HH	HH	HH	HH	HH	
E Rlenes, total	ND	HH	zdz-zz	mg/6g F e	et - z	HH	HH	HH	HH	HH	HH	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			106 %	80-	120 %		"					
L CS (0000017 DS1)		D	0/0 /10 /	4 IDI	0.10 11	A.1. 07						
5035 A /8260C		Preparey	zu/8z/10 z(:	zz AnaiRU	ey: 20/82/1	10 12:05						
DonLano	त में 1	1111	741	malfar		1.4	1111	(0	0740-0/	1111	1111	
Bentene	zq 1-	HIII HIII	Z021ZZ	mg/og F e	et - Z	10ZZ	HIII	(8	0_119_0/		HIH	
Woluene Oth Dilts and have	ZQ 4-			mg/og r e	- z	1022		(0)	0_110_0/			
E Planas, total	ZQW 840		$z\alpha - z$	mg/6g F e	et - Z	10ZZ		(0)	02H8Z%			
	840	nn	2020-2	Ing/og r e	-z		nn	((UZH 8Z %	mn	mn	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)	4		100 %	80-	120 %							
4-Bromofluorobenzene (Surr)			103 %	80-	120 %		"					
Duplicate (8080916-DUP1)		Preparey	z0/10/10 z0:	O AnalRU	ey: z0/8z/1	0 13:18						
QC Source Sample: MW29-24 (A8	<u>8H0529-02)</u>											
5035A/8260C												
Benlène	ND	HH	zdz1zG	mg/6g yr	R-z	HH	ND	HH	HH	HH	Oz%	
Woluene	ND	HH	zdz-00	mg/6g yr	R-z	HH	ND	HH	HH	HH	Oz%	XHz3
QthRlbenUene	0.181	HH	zdz84G	mg/6g yr	R-z	HH	zdz140	HH	HH	200	30%	XH23
E Rlenes, total	0.997	HH	zdz0zz	mg/6g yr	R-z	HH	zdz4-4	HH	HH	175	30%	XH23
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 93 %	Limits: 80-	120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			102 %	80-	120 %		"					
Duplicate (8080916-DUP2)		Prenarev	z0/13/10 z0.	Oz AnalRI#	ev: z0/8z/1	0 1-:00						
<u>OC Source Sample: MW30-15 (A8</u>	<u>3H0529-05)</u>	rieparey	20/13/10 20:	L AHAIKU	y. 20/82/1	10 IW						

5035A/8260C

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

HydroCon LLC	Project: <u>C</u>	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 20	017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Cr	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	nds by E	PA 8260C	;					
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8080916 - EPA 5035A							Soil					
Duplicate (8080916-DUP2)		Preparey	z0/13/10 z0:0	Oz AnalRU	ey: z0/8z/1	0 1-:00						
QC Source Sample: MW30-15 (A	<u>8H0529-05)</u>											
BenUene	ND	HH	zdz180	mg/6g yr	R-z	HH	ND	HH	HH	HH	Oz%	
Woluene	ND	HH	zdz43z	mg/6g yr	R-z	HH	ND	HH	HH	HH	Oz%	
QthRlbenUene	ND	HH	zdz08z	mg/6g yr	R-z	HH	ND	HH	HH	HH	Oz%	
E Rlenes, total	0.101	HH	zdz(41	mg/6g yr	R-z	HH	zdz44G	HH	HH	41	30%	XHz-
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 95 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			103 %	80-	120 %		"					
Matrix Spike (8080916-MS1)		Preparey	z0/13/10 z0:-	-z AnalRU	ey: z0/8z/1	0 14:8G						
QC Source Sample: MW30-20 (A) 5035A/8260C	<u>8H0529-06)</u>											
BenUène	1¢G	HH	zdz180	mg/6g yr	R - z	1 & O	ND	0G	GGH 81%	H⊞H	HH	
Woluene	1 dl -	HH	zdz41G	mg/6g yr	R-z	1 & O	ND	(0	GGH 81%	HH	HH	
QthRlbenUene	1 d 81	HH	zdzOz0	mg/6g yr	R-z	1 & O	ND	(0	G4H88%	HH	H⊞H	
E Rlenes, total	OdD(HH	z¢(8-	mg/6g yr	R-z	Ot	ND	1z8	@H83%	H⊞	HH	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 91 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80-	120 %		"					

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

HydroCon LLC	Project: <u>Coleman V</u>	Venatchee
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hult	gren A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compour	nds by E	PA 8260C							
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	No	tes
Batch 8080917 - EPA 5035A							Soil						
Blank (8080917-BLK1)		Preparey	z0/8z/10 z(:	zz AnalRLe	y: z0/8z/1	0 18:30							
5035A/8260C													
BenUène	ND	HH	zdzz44G	mg/6g F e	t-z	HH	HH	HH	HH	HH	HH		
Woluene	ND	HH	zdz000	mg/6g F e	t - z	HH	HH	HH	HH	HH	H₩		
QthRlbenUene	ND	HH	zdz14G	mg/6g F e	t-z	HH	HH	HH	HH	HH	H₩		
E Rlenes, total	ND	HH	zdz-zz	mg/6g F e	t-z	HH	HH	HH	HH	HH	HH		
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99%	Limits: 80-	120 %	Dilu	tion: 1x						
Toluene-d8 (Surr)			100 %	80-	120 %		"						
4-Bromofluorobenzene (Surr)			98 %	80-	120 %		"						
LCS (8080917-BS1)		Preparey	: z0/8z/10 z(:	zz AnalRLe	y: z0/8z/1	0 11:3(
5035A/8260C													
BenUène	zd(68	HH	zdz1zz	mg/6g F e	t-z	1 dz z	HH	(G	0zH8z%	H₩	HH		
Woluene	zd(-(HH	zdz-zz	mg/6g F e	t-z	1 dz z	HH	(4	0zH8z%	HH	H⊞H		
QthRlbenUene	z d 00	HH	zdz8- z	mg/6g F e	t-z	1 dz z	HH	(0	0zH8z%	HH	H⊞H		
E Rlenes, total	8đ(1	HH	zdzG-z	mg/6g F e	t - z	Oztrz	HH	(G	0zH8z%	H⊞H	H₩		
Surr: 1,4-Difluorobenzene (Surr)		Recor	very: 100 %	Limits: 80-	120 %	Dilu	tion: 1x						
Toluene-d8 (Surr)			101 %	80-	120 %		"						
4-Bromofluorobenzene (Surr)	4		97 %	80-	120 %		"						
Duplicate (8080917-DUP2)		Preparey	z0/14/10 zG	3z AnalRUé	y: z0/8z/1	0 808-							T-02
<u>QC Source Sample: MW0912-35</u>	(A8H0529-1	<u>3)</u>											
Dan Lina	ND	ш	adt 144	ma a/6 a xml			ND	1111	1111		0-0/		
Bentene	ND		ZUZ 144	mg/6g ym	x - z		ND				02%		
Oth Pihan Lana	ND		zdz000	mg/6g yri	x - z	IIII IIII	ND adla9				200/	VL	
F Plenes total	ND	nn uu	ZUZ 314	mg/6g yrl	x -z	1111 1111	zala	HILL HILL	HILI HILI	***	30%	лп- ХН-	
	ND	nn	2010-	Timiter 00	120.0/		200(-	m	1111		JU 70	ЛП-	
Surr: 1,4-Dijiuorobenzene (Surr)		Kecov	ery: 102 %	Limits: 80-	120 %	Dilu	uion: Ix						
4-Bromofluorobenzene (Surr)			99 % 98 %	80 80	120 %		"						

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	nds by E	PA 8260C						
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8080959 - EPA 5035A							Soil					
Blank (8080959-BLK1)		Preparey	z0/81/10 z0:	10 AnalRU	by: z0/81/1	0 11:O						
<u>5035A/8260C</u>												
BenUene	ND	HH	zdzz44G	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
Woluene	ND	HH	z¢2000	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
QthRlbenUene	ND	HH	zdz14G	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
E Rlenes, total	ND	HH	zdz-zz	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 102 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			100 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80-	120 %		"					
LCS (8080959-BS1)		Preparey:	z0/81/10 z0:	10 AnalRU	ey: z0/81/1	0 1z:31						
5035A/8260C												
Benlene	zđQ	HH	zdz1zz	mg/6g F	et - z	1 dz z	HH	(3	0zH8z%	HH	H	
Woluene	zd00G	HH	zdz-zz	mg/6g F	et - z	1 dz z	HH	0(0zH8z%	HH	HH	
QthRlbenUene	zđ(14	HH	zdz8-z	mg/6g F	et - z	1 dz z	HH	(8	0zH8z%	HH	HH	
E Rlenes, total	8d4(HH	z¢zG-z	mg/6g F	et - z	Otzz	HH	(z	0zH8z%	HH	HH	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 102 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			100 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80-	120 %		"					
Duplicate (8080959-DUP2)		Preparey	z0/14/10 10.3	3- AnalRU	ey: z0/81/1	0 1(:33						
<u>QC Source Sample: MW1012-35</u> 5035A/8260C	(A8H0529-1	<u>4)</u>										
BenUene	ND	HH	zdz200(mg/6g vr	R -z	HH	ND	HH	HH	HH	Oz%	
Woluene	ND	HH	z¢2333	mg/6g vr	R -z	HH	ND	HH	HH	HH	Oz%	
QthRlbenLene	ND	HH	zdz888	mg/6g vr	R-z	HH	ND	HH	HH	HH	Oz%	
E Rlenes, total	ND	HH	zdz44G	mg/6g vr	R-z	HH	ND	HH	HH	HH	Oz%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	verv: 102 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80-	120 %		"					

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	inds by E	PA 8260C						
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch 8081010 - EPA 5035A							Soil					
Blank (8081010-BLK1)		Preparey:	z0/88/10 z0:2	zz AnalRl	ey: z0/88/1	0 18:CG						
5035A/8260C												
BenUene	ND	HH	zdzz44G	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
Woluene	ND	HH	z¢2000	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
QthRlbenUene	ND	HH	zdz14G	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
E Rlenes, total	ND	HH	zdz-zz	mg/6g F	et - z	HH	HH	HH	HH	HH	HH	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 101 %	Limits: 80)-120 %	Dilu	ution: 1x					
Toluene-d8 (Surr)			98 %	80)-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80	0-120 %		"					
LCS (8081010-BS1)		Preparey:	z0/88/10 z0:2	zz AnalR	£y: z0/88/1	0 11:30						
5035A/8260C												
BenUene	zđŒ	HH	zdz1zz	mg/6g F	et - z	1 dz z	HH	(0	0zH8z%	HH	HH	
Woluene	zd)(z	HH	zdz-zz	mg/6g F	et - z	1 dz z	HH	0(0zH8z%	HH	HH	
QthRlbenUene	zđ(1G	HH	zdz8-z	mg/6g F	et -z	1 dz z	HH	(8	0zH8z%	HH	HH	
E Rlenes, total	8dGl	HH	zdzG-z	mg/6g F	et - z	Otzz	HH	(z	0zH8z%	HH	HH	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 102 %	Limits: 80)-120 %	Dilu	ution: 1x					
Toluene-d8 (Surr)			101 %	80)-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80)-120 %		"					

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percent	t Dry Wei	ght						
AnalRie Batch 8080919 - Total Solids (F	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Duplicate (8080919-DUP3)	y weigi	Preparey:	z0/8z/10 z(:	-3 AnalRI	ey: z0/81/1) zG-3						
QC Source Sample: MW30-40 (A8	3H0529-09)											
<u>EPA 8000C</u> % Soliys	73.0	HH	1dzz	% bRk ei	ght 1	HH	601	HH	HH	zdl	1z%	
Duplicate (8080919-DUP4)		Preparey:	z0/8z/10 z(:	-3 AnalRI	ey: z0/81/1) zG-3						
QC Source Sample: MW0912-35 (A8H0529-1	<u>3)</u>										
% Soliys	83.5	HH	1 dz z	% bRk ei	ght 1	HH	08d	HH	HH	1	1z%	
Duplicate (8080919-DUP5)		Preparey:	z0/8z/10 z(:	-3 AnalRI	ey: z0/81/1) zG-3						
<u>QC Source Sample: MW32-28 (A8</u> <u>EPA 8000C</u>	3 <u>H0529-17)</u>		1 der	0/ bD1	aht 1	1111	0.01	1111	1111	2	1-0/	
70 Sollys	/9.5	m	1022	70 UKK el	gnt T	niti	UCUZ	mil	mit	3	12%	

No Client relatey Batch XC samples analRLey for this batchd See notes page for more informationd

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

HydroCon LLC				Project:	<u>Colema</u>	n Wenatche	<u>e</u>					
314 W 15th Street Suite 300			Pro	oject Number	r: 2017-07	4				R	eport ID:	<u>.</u>
Vancouver, WA 98660			Pro	ject Manager	r: Craig H	lultgren			А	8H0529	- 09 05 18	3 1443
			An	alytical I	Resourc	es, Inc.						
		QU.	ALITY CO	ONTROL	(QC) SA	MPLE R	ESULTS					
		v	Vashingtor	n Departm	ent of E	cology Me	thods					
		Detection	2 eporting			Spi6e	Source		% 2 QC		2 PD	
AnalRte	2 esult	Limit	Limit	. nits	Dilution	Amount	2 esult	% 2 QC	Limits	2 PD	Limit	Notes
Batch BGH0567 - EPA 5035 (Methanol Ex	traction)					Soli	d				
Blank (BGH0567-BLK1)		Preparey:	z0/88/10 18:	zz AnalRU	ey: z0/88/1	0 18:z3						
WA VPH												
C-HC4 Aliphatics	ND	3d z	(dzz	mg/6g F e	et 10z	HH	HH	HH	HH	HH	HH	
C4HC0 Aliphatics	ND	3d z	(dzz	mg/6g F e	et 10z	HH	HH	HH	HH	HH	HH	
C0HC1z Aliphatics	ND	3d z	(dzz	mg/6g F e	et 10z	HH	HH	HH	HH	H∎H	HH	
C1zHC18 Aliphatics	ND	3d z	(dzz	mg/6g F e	et 10z	HH	HH	HH	HH	H⊞H	HH	
C0HC1z Aromatics	ND	3d z	(dzz	mg/6g F e	t 10z	HH	HH	HH	HH	H∎H	HH	
C1zHC18 Aromatics	ND	3d z	(dzz	mg/6g F e	t 10z	HH	HH	HH	HH	H∎H	HH	
C18HC1OAromatics	ND	3d z	(dzz	mg/6g F e	et 10z	HH	HH	HH	HH	H∎H	HH	
Surr: PID: 2,5-Dibromotoluene		Recove	ery: 83.0 %	Limits: 60-	140 %	Dilı	ution: 1x					
FID: 2,5-Dibromotoluene			90.7 %	60-	140 %		"					
LCS (BGH0567-BS1)		Preparey:	z0/88/10 11:	z3 AnalRU	ey: z0/88/1	0 11:z3						
WA VPH												
MethRl tertHbutRl Qther	- dz(z&-z	zđ zz	mg/6g F e	et 10z	- &zzz	HH	(3dD	GzHOz%	HH	HH	
BenUene	- d O	z &- z	zďzz	mg/6g F e	t 10z	- &zzz	HH	1z8	GzHOz%	HH	HH	
Woluene	- dDD	z &- z	zđ zz	mg/6g F e	t 10z	- &zzz	HH	(0 d G	GzHOz%	HH	HH	
QthRlbenUene	- & G	z B- z	zđ zz	mg/6g F e	t 10z	- &zzz	HH	(GdG	GzHOz%	HH	HH	
m,pHE Rlene	1zdD	zđ zz	1dDz	mg/6g F e	t 10z	1zd0zz	HH	(-d	GzHOz%	H₩	HH	
oHE Rlene	- d 88	z B- z	zdzz	mg/6g F e	t 10z	- &zzz	HH	(4dG	GzHOz%	H₩	HH	
1,8,0HWrimethRlbenUene	- d00	z B- z	zďzz	mg/6g F e	t 10z	- &zzz	HH	(0dG	GzHOz%	HH	HH	
Naphthalene	- dDl	z B- z	zď, zz	mg/6g F e	et 10z	- Bzzz	HH	(0dD)	GzHOz%	H∎H	HH	

mg/6g F et 10z

60-140 %

Limits: 60-140 %

Preparey: z0/88/10 11:03 AnalRLey: z0/88/10 11:03

10z

mg/6g F et

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1HMethRlnaphthalene

Surr: PID: 2,5-Dibromotoluene

LCS Dup (BGH0567-BSD1)

FID: 2,5-Dibromotoluene

nHPentane

nHT exane

nH5 ctane

nHDecane

WA VPH

nHDoyecane

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96.7 %

Recovery: 88.3 %

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HH

HH

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HH

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Dilution: 180x

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H⊞

HH

HH

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H⊞

H⊞



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

HydroCon LLC	Project: <u>Coleman Wenatchee</u>	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0529 - 09 05 18 1443

Analytical Resources, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

		W	ashingtor	n Departm	ent of E	cology Me	ethods					
AnalRte	2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits	2 PD	2 PD Limit	Notes
Batch BGH0567 - EPA 5035 (M	lethanol E	xtraction)					Solid	d				
LCS Dup (BGH0567-BSD1)		Preparey: 2	z0/88/10 11:	:OB AnalRU	ey: z0/88/1	0 11:08						
MethRl tertHbutRl Qther	3dD4	z ð- z	zđ(zz	mg/6g F	et 10z	- &zzz	HH	0zdG	GzHOz%	1-d4	Oz%	
BenUène	3dG-	z ð- z	zđ zz	mg/6g F	et 10z	- &zzz	HH	00dz	GzHOz%	1- dl	Oz%	
Woluene	3d41	z B- z	zđ(zz	mg/6g F	et 10z	- &zzz	HH	0- dD	GzHOz%	13d	Oz%	
QthRlbenUene	3d4O	z B- z	zđ zz	mg/6g F	et 10z	- &zzz	HH	0-dG	GzHOz%	101	Oz%	
m,pÆ Rlene	(dl 1	zđ zz	1dDz	mg/6g F	et 10z	1zd)zz	HH	03dD	GzHOz%	18 B	Oz%	
oÆ Rlene	3d -	z B- z	zd(zz	mg/6g F	et 10z	- Bzzz	HH	03dD	GzHOz%	104	Oz%	
1,8,0HWrimethRlbenUene	3d4O	z B- z	zďzz	mg/6g F	et 10z	- &zzz	HH	0-dG	GzHOz%	13dl	Oz%	
Naphthalene	3d(z	z B- z	zď, zz	mg/6g F	et 10z	- Bzzz	HH	(zdG	GzHOz%	0dl 1	Oz%	
1HMethRlnaphthalene	3d z	z B- z	zđ zz	mg/6g F	et 10z	- &zzz	HH	00dD	GzHOz%	GdD8	Oz%	
nIPentane	- d8(z B- z	zđ zz	mg/6g F	et 10z	- Bzzz	HH	(0dz	GzHOz%	8d40	Oz%	
nHT exane	3 d 00	z B- z	zđ zz	mg/6g F	et 10z	- Bzzz	HH	(zdD	GzHOz%	1- dz	Oz%	
nH5 ctane	3dG	z B- z	zđ zz	mg/6g F	et 10z	- Bzzz	HH	Cb 00	GzHOz%	1- dD	Oz%	
nHDecane	3 d 81	z&-z	zđzz	mg/6g F	et 10z	- Bzzz	HH	COdz	GzHOz%	10 d D	Oz%	
nHDoyecane	- dz3	z&-z	zđ zz	mg/6g F	et 10z	- &zzz	HH	(QD)	GzHOz%	1-d0	Oz%	
Surr: PID: 2,5-Dibromotoluene		Recover	ry: 82.7 %	Limits: 60	140 %	Dilı	ution: 180x					
FID: 2,5-Dibromotoluene			92.0 %	60-	140 %		"					

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

HydroCon LLC Project: Coler	nan Wenatchee			
314 W 15th Street Suite 300Project Number: 2017-	.074		<u>Report ID:</u>	
Vancouver, WA 98660 Project Manager: Craig	g Hultgren	A8I	10529 - 09 05 18 1443	
Analytical Resou	rces, Inc.			
OUALITY CONTROL (OC)	SAMPLE RESULTS			
Weekington Department of	Ecology Mothede			
washington Department of	Ecology Methods			
AnalRte Detection 2 eporting Limit Limit . nits Dilutio	Spi6e Source n Amount 2 esult 9	% 2 QC % 2 QC Limits 2	2 PD 2 PD Limit Not	tes
Batch BGH0638 - EPA 3546 (Microwave)	Solid			
Blank (BGH0638-BLK1) Preparey: z0/8G10 1038 AnalRLey: z(/z-	/10 z1:84			
WA EPH				
C0HC1z Aliphatics ND zd08G 8dz mg/6g F et 1	HH HH	HH HH	HHH HHH .	
C1zHC18 Aliphatics 0.130 zdl 80 8dz mg/6g F et 1	HH HH	HH HH	HHH HHH I	
C18HC14 Aliphatics ND zdl GB 8dz mg/6g F et 1	HH HH	HH HH	HHH HHH .	
C14HC81 Aliphatics ND zd84(8dz mg/6g F et 1	HH HH	HH HH	HHH HHH .	
C81HCOS Aliphatics 0.600 zdl(O 8dzz mg/6g F et 1	HHI HHI	HH HH	HHH HHH I	
Surr: 1-Chloro-octadecane Recovery: 55.8 % Limits: 30-160 %	Dilution: 1x			
Blank (BGH0638-BLK2) Prenarey: 20/8G10 1038 AnalRièv: 2(/2-	/10 z8			
WA EPH				
C0HC1z Aromatics ND z&40 8dz mg/6g F et 1	HH HH	HH HH	HHH HHH .	
C1zHC18 Aromatics ND $zd84(8dz mg/6g Fet 1)$	HH HH	HH HH	HHH HHH .	
C18HC14 Aromatics 0.330 zd3- 8dz mg/6g F et 1	HH HH	HH HH	HH HH I	
C14HC81 Aromatics 0.920 zd ((8dz mg/6g F et 1	HH HH	HH HH	HHH HHH I	
C81HCO3 Aromatics 1.50 zd0-G 8dz mg/6g F et 1	HH HH	HH HH	HHH HHH I	
Surr: o-Terphenyl Recovery: 76.5% Limits: 30-160%	Dilution: 1x			
LCS (BGH0638-BS1) Preparey: z0/8G10 1038 AnalRLey: z(/z-	/10 z1:30			
WA EPH				
COHC1z Aliphatics OB3 zd08G 8dz mg/6g F et 1	Galzzz HHH 3	3-d(0zH4z%	HH HH	
C1zHC18 Aliphatics QdDz zdl 80 8dz mg/6g F et 1	Gałzzz HHH -	zdG OzH4z%	HHH HHH	
C18HC14 Aliphatics 3d03 zdl GB 8dzz mg/6g F et 1	Gel zzz HHH 4	43d OzH4z%	HHH HHH	
C14HC81 Aliphatics - dO zd84(8dz mg/6g F et 1	Gd zzz HHH (GCCG OzH4z%	HH HH	
C81HCO3 Aliphatics $- dz z dl (O 8 dz mg/6g F et 1)$	Gel zzz HHH (38dz OzH4z%	HH HH	
Surr: 1-Chloro-octadecane Recovery: 66.1 % Limits: 30-160 %	Dilution: 1x			
LCS (BGH0638-BS2) Preparey: 20/8G10 10.38 AnalRLev: 26/7-	/10 zQ1G			
WA EPH				
C1zHC18 Aromatics $3dz0$ zd84($8dz$ mg/6g F et 1	Gel zzz HHH -	-36 OzH4z%	HHH HHH	
C18HC14 Aromatics 3dBG zdl3- 8dz mg/6g F et 1	Gel zzz HHH -	(d4 OzH4z%)	HHH HHH	
C14HC81 Aromatics 11d zd ((8dz mg/6g F et 1	1-dzzz HHH (a de OzH4z%	HHH HHH	

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C81HCOB Aromatics

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- **d**)4

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mg/6g F et

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H⊞H

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Gd zzz



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

		Pr Pro	Project: oject Numb oject Manag	Colema ber: 2017-07 ger: Craig H	<u>n Wenatche</u> 4 ultgren	<u>e</u>		A8H0:	<u>Report ID</u> 529 - 09 05 1	<u>:</u> 8 1443
		Aı	nalytical	Resourc	es, Inc.					
	QU	ALITY C	ONTRO	L (QC) SA	MPLE R	ESULTS				
	١	Nashingto	n Depart	ment of E	ology Me	thods				
2 esult	Detection Limit	2 eporting Limit	. nits	Dilution	Spi6e Amount	Source 2 esult	% 2 QC	% 2 QC Limits 2 P	2 PD D Limit	Notes
icrowave)						Soli	d			
	Preparey	z0/8G10 1C	0.38 AnalR	Uey: $z(/z-/1)$) z01G					
		ery. 70.070	Lunus. J	0 100 /0	Diii					
	2 esult	QU 2 esult Detection Limit icrowave) Preparey Recov	Provent in the second s	Project Numb Project Numb Project Manag QUALITY CONTRO Washington Depart 2 esult Detection 2 eporting Limit Limit . nits icrowave) Preparey: 20/8G10 1038 AnaIR Recovery: 78.0% Limits: 3	Project Kumber 2017-07- Project Manager Craig H Analytical Resource QUALITY CONTROL (QC) SA Washington Department of Ec 2 esult Detection 2 eporting 2 esult Detection 2 eporting Crowave) Preparey: 20/8G10 1038 AnalRtey: 2(/z-/10 Recovery: 78.0% Limits: 30-160%	Project Kumber: 2017-07. Project Munager: Craig Hultgren Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE R Vashington Department of Ecology Me 2 esult Detection 2 eporting . nits Dilution Spiče Limit Limit . nits Dilution Amount Ecowarye) Preparey: 20/8G710 1038 AnalRLEy: 2(/2-/10 z016 Recovery: 78.0% Limits: 30-160% Dilution	Project Coleman Wenatchee Project Munber 2017-074 Project Manager Craig Hultgren Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE RESULTS Washington Department of Ecology Methods 2 esult Detection 2 eporting nits Dilution Amount 2 esult 2 esult Limit Limit nits Dilution Amount 2 esult 2 esult Preparey: 20/8GI0 1038 AnalRiky: 2(/z-/10 z016] Recovery: 78.0% Limits: 30-160 % Dilution: 1x	Project Number: 2017-074 Project Number: 2017-074 Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE RESULTS QUALITY CONTROL (QC) SAMPLE RESULTS Vashington Department of Ecology Methods 2 esult Detection 2 eporting nits Dilution Spide Source % 2 QC 2 esult Limit Limit . nits Dilution Amount 2 esult % 2 QC 2 esult Detection 2 eporting . nits Dilution Amount 2 esult % 2 QC 2 esult Detection 2 eporting . nits Dilution Spide Source % 2 QC 2 esult Networy: 78.0% Limits: 30-160% Dilution: 1/8	Project Coleman Wenatchere Project Number 2017-073 Analytical Resources, Inc. Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE RESULTS Vashington Department of Ecology Methods 2esul Detection 2eporting Spide Source % 2.00 Limit 2 PI 2esul Detection 2eporting .nits Dilution Annound 2 esul % 2.00 Limit 2 PI crowave) Solid Solid <t< th=""><th>Project Number 2017-074 Report ID Project Manager Craig Hultgren A8H0529-09.051 Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE RESULTS Vashington Department of Ecology Methods 2 esual Detection 2 eporting nits Dilution Spide Source % 2.0C 2.PD Limit Corowave) Solid Solid Solid Solid Solid</th></t<>	Project Number 2017-074 Report ID Project Manager Craig Hultgren A8H0529-09.051 Analytical Resources, Inc. QUALITY CONTROL (QC) SAMPLE RESULTS Vashington Department of Ecology Methods 2 esual Detection 2 eporting nits Dilution Spide Source % 2.0C 2.PD Limit Corowave) Solid Solid Solid Solid Solid

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx											
Prep: EPA 3546 (F	uels)				Sample	Default	2 L Prep				
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor				
Batch: 8081025											
A0T z-8(Hz-	Soil	Nk WPTHDx	z0/13/10 z0:Oz	z0/88/10 10.0	1z d 8Gg/-mL	1zg/-mL	zđ G				
A0Tz-8(Hz4	Soil	Nk WPTHDx	z0/13/10 z0:- z	z0/88/10 10.Q	1z B 1g/-mL	1zg/-mL	zđ(4				
A0T z-8(HzG	Soil	Nk WPTHDx	z0/13/10 z(:Oz	z0/88/10 10Q	1z d 00g/- mL	1zg/-mL	zđ 8				
A0Tz-8(Hz0	Soil	Nk WPTHDx	z0/13/10 z(:3z	z0/88/10 10.Q	1zd8(g/-mL	1zg/-mL	zđ G				
A0Tz-8(Hz(Soil	Nk WPTHDx	z0/13/10 1z:zz	z0/88/10 10.Q	1zd8Qg/-mL	1zg/-mL	zđ(0				
A0Tz-8(Hz	Soil	Nk WPTHDx	z0/1-/10 zG3-	z0/88/10 10.Q	1z d 84g/- mL	1zg/-mL	zđ(0				
A0Tz-8(H1	Soil	Nk WPTHDx	z0/1-/10 z0:Oz	z0/88/10 10.Q	1zd(8g/-mL	1zg/-mL	zđ 8				
A0Tz-8(H8	Soil	Nk WPTHDx	z0/1-/10 z(:zz	z0/88/10 10.Q	1zd 0g/- mL	1zg/-mL	zđ(-				
A0Tz-8(HO	Soil	Nk WPTHDx	z0/14/10 zG3z	z0/88/10 10.0(1z & (g/-mL	1zg/-mL	zđ(-				
A0Tz-8(H3	Soil	Nk WPTHDx	z0/14/10 10.3-	z0/88/10 10.0(1zdz(g/-mL	1zg/-mL	zđ (
A0Tz-8(H-	Soil	Nk WPTHDx	z0/1G10 zG8z	z0/88/10 10.Q	1z⋙/-mL	1zg/-mL	zđ 4				
A0Tz-8(H42Q1	Soil	Nk WPTHDx	z0/1G10 zG3z	z0/88/10 10.0(1z d 81g/- mL	1zg/-mL	zđ(0				
A0T z-8(HG	Soil	Nk WPTHDx	z0/1G10 z(:zz	z0/88/10 10.0	1z d 84g/- mL	1zg/-mL	zđ(0				
Batch: 8081060											
A0T z-8(H21	Soil	Nk WPTHDx	z0/10/10 z0:z-	z0/80/10 1z:1z	1zd80g/-mL	1zg/-mL	zđ G				
A0T z-8(H28	Soil	Nk WPTHDx	z0/10/10 z0:0-	z0/80/10 1z:1z	1zdOOg/-mL	1zg/-mL	zđ G				
A0T z-8(HzO	Soil	Nk WPTHDx	z0/10/10 z(:8z	z0/80/10 1z:1z	1zd(3g/-mL	1zg/- mL	zđ(1				
A0Tz-8(Hz3	Soil	Nk WPTHDx	z0/10/10 z(:3z	z0/80/10 1z:1z	1zd-Gg/-mL	1zg/-mL	zđ(-				

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx							
Prep: EPA 5035A					Sample	Default	2 L Prep
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor
Batch: 8080916							
A0T z-8(Hz1	Soil	Nk WPTH, x 9MS7	z0/10/10 z0:z-	z0/10/10 z0:z-	- dz8g/- mL	- g/- mL	1dzz
A0T z-8(Hz8	Soil	Nk WPTH x 9MS7	z0/10/10 z0:0-	z0/10/10 z0:0-	3dD4g/- mL	- g/- mL	1 dl -
A0T z-8(HzO	Soil	Nk WPTH x 9MS7	z0/10/10 z(:8z	z0/10/10 z(:8z	4dl Og/- mL	- g/- mL	zd08
A0T z-8(Hz-	Soil	Nk WPTH x 9MS7	z0/13/10 z0:Oz	z0/13/10 z0:0z	- d48g/- mL	- g/- mL	zd)(
A0T z-8(Hz4	Soil	Nk WPTH x 9MS7	z0/13/10 z0:-z	z0/13/10 z0:- z	4 d 8Og/-mL	- g/- mL	zdDz
Batch: 8080917							
A0Tz-8(H23	Soil	Nk WPTH x 9MS7	z0/10/10 z(:3z	z0/10/10 z(:3z	4 & (g/-mL	- g/- mL	zdG
A0T z-8(Hz0	Soil	Nk WPTH, x 9MS7	z0/13/10 z(:3z	z0/13/10 z(:3z	4d 8g/- mL	- g/- mL	zdG
A0T z-8(Hz(Soil	Nk WPTH x 9MS7	z0/13/10 1z:zz	z0/13/10 1z:zz	4 d)(g/-mL	- g/- mL	zdЮ
A0Tz-8(Hz	Soil	Nk WPTH x 9MS7	z0/1-/10 zG3-	z0/1-/10 zG3-	4dl Gg/-mL	- g/- mL	zd01
A0Tz-8(H1	Soil	Nk WPTH x 9MS7	z0/1-/10 z0:0z	z0/1-/10 z0:Oz	Gdl-g/-mL	- g/- mL	zdGz

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

<u>HydroCon LLC</u>	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx								
Prep: EPA 5035A					Sample	Default	2 L Prep	
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor	
A0Tz-8(H8	Soil	Nk WPTH, x9MS7	z0/1-/10 z(:zz	z0/1-/10 z(:zz	Gd48g/-mL	- g/- mL	zd44	
A0Tz-8(HO	Soil	Nk WPTH x 9MS7	z0/14/10 zG3z	z0/14/10 zG3z	- &4g/- mL	- g/- mL	zđ 8	
Batch: 8080959								
A0T z-8(HzG2 Q1	Soil	Nk WPTH x 9MS7	z0/13/10 z(:Oz	z0/13/10 z(:Oz	4 dz- g/-mL	- g/- mL	zdO	
A0Tz-8(H3	Soil	Nk WPTH, x 9MS7	z0/14/10 10.3-	z0/14/10 10.3-	4 d (g/-mL	- g/- mL	zdЮ	
A0Tz-8(H-	Soil	Nk WPTH x 9MS7	z0/1G'10 zG8z	z0/1G'10 zG8z	4 d 8Gg/- mL	- g/- mL	zdDz	
Batch: 8081010								
A0T z-8(H42 Q1	Soil	Nk WPTH x 9MS7	z0/1G10 zG3z	z0/1G10 zG3z	4 d 38g/-mL	- g/- mL	zdB	
A0T z-8(HC2 Q1	Soil	Nk WPTH x 9MS7	z0/1G10 z(:zz	z0/1G'10 z(:zz	4đ g/- mL	- g/- mL	zdO	

BTEX Compounds by EPA 8260C								
Prep: EPA 5035A					Sample	Default	2 L Prep	
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor	
Batch: 8080916								
A0T z-8(H21	Soil	- zO A/084zC	z0/10/10 z0:z-	z0/10/10 z0:z-	- dz8g/- mL	- g/- mL	1dzz	
A0T z-8(Hz8	Soil	- zO A/084zC	z0/10/10 z0:O	z0/10/10 z0:0-	3 d 04g/- mL	- g/- mL	1 d I -	
A0T z- 8(HzO	Soil	- zO A/084zC	z0/10/10 z(:8z	z0/10/10 z(:8z	4dl Og/- mL	- g/- mL	zd08	
A0T z-8(Hz-	Soil	- zO A/084zC	z0/13/10 z0:Oz	z0/13/10 z0:0z	- d48g/- mL	- g/- mL	z d)(
A0T z-8(Hz4	Soil	- zO A/084zC	z0/13/10 z0:- z	z0/13/10 z0:- z	4d8Og/-mL	- g/- mL	zdDz	
Batch: 8080917								
A0Tz-8(H23	Soil	- zO A/084zC	z0/10/10 z(:3z	z0/10/10 z(:3z	4 & (g/-mL	- g/- mL	zdG	
A0T z-8(HzG	Soil	- zO A/084zC	z0/13/10 z(:Oz	z0/13/10 z(:Oz	4 d z-g/-mL	- g/- mL	zdO	
A0T z-8(Hz0	Soil	- zO A/084zC	z0/13/10 z(:3z	z0/13/10 z(:3z	4d 8g/- mL	- g/- mL	zdG	
A0T z-8(Hz(Soil	- zO A/084zC	z0/13/10 1z:zz	z0/13/10 1z:zz	4 d)(g/-mL	- g/- mL	zdÐ	
A0Tz-8(Hz	Soil	- zO A/084zC	z0/1-/10 zG3-	z0/1-/10 zG3-	4dl Gg/- mL	- g/- mL	z d 01	
A0Tz-8(H1	Soil	- zO A/084zC	z0/1-/10 z0:Oz	z0/1-/10 z0:0z	Gdl-g/-mL	- g/- mL	zďGz	
A0Tz-8(H8	Soil	- zO A/084zC	z0/1-/10 z(:zz	z0/1-/10 z(:zz	Gd48g/-mL	- g/- mL	zd44	
A0Tz-8(HO	Soil	- zO A/084zC	z0/14/10 zG3z	z0/14/10 zG3z	- B 4g/- mL	- g/- mL	zd(8	
Batch: 8080959								
A0Tz-8(H3	Soil	- zO A/084zC	z0/14/10 10.3-	z0/14/10 103-	4 d (g/-mL	- g/- mL	zdÐ	
A0Tz-8(H-	Soil	- zO A/084zC	z0/1G/10 zG8z	z0/1G/10 zG8z	4d8Gg/- mL	- g/- mL	zdDz	
A0Tz-8(H4	Soil	- zO A/084zC	z0/1G/10 zG3z	z0/1G/10 zG3z	4 d 8g/- mL	- g/- mL	zdB	
Batch: 8081010								
A0T z-8(HG2 Q1	Soil	- zO A/084zC	z0/1G/10 z(:zz	z0/1G/10 z(:zz	4 d (g/-mL	- g/- mL	zđĐ	

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<u>HydroCon LLC</u>	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C							
	Percent Dry Weight						
Prep: Total Solids (D	Dry Weight)				Sample	Default	2 L Prep
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor
Batch: 8080919							
A0Tz-8(Hz1	Soil	QPA 0zzzC	z0/10/10 z0:z-	z0/8z/10 1z:zG			NA
A0Tz-8(Hz8	Soil	QPA 0zzzC	z0/10/10 z0:0-	z0/8z/10 1z:zG			NA
A0T z-8(HzO	Soil	QPA 0zzzC	z0/10/10 z(:8z	z0/8z/10 1z:8z			NA
A0Tz-8(Hz3	Soil	QPA 0zzzC	z0/10/10 z(:3z	z0/8z/10 1z:8z			NA
A0Tz-8(Hz-	Soil	QPA 0zzzC	z0/13/10 z0:Oz	z0/8z/10 1z:8z			NA
A0Tz-8(H24	Soil	QPA 0zzzC	z0/13/10 z0:- z	z0/8z/10 1z:8z			NA
A0T z-8(HzG	Soil	QPA 0zzzC	z0/13/10 z(:Oz	z0/8z/10 1z:8z			NA
A0Tz-8(Hz0	Soil	QPA 0zzzC	z0/13/10 z(:3z	z0/8z/10 1z:8z			NA
A0Tz-8(Hz(Soil	QPA 0zzzC	z0/13/10 1z:zz	z0/8z/10 1z:8z			NA
A0Tz-8(Hz	Soil	QPA 0zzzC	z0/1-/10 zG3-	z0/8z/10 1z:8z			NA
A0Tz-8(H1	Soil	QPA 0zzzC	z0/1-/10 z0:Oz	z0/8z/10 1z:8z			NA
A0Tz-8(H8	Soil	QPA 0zzzC	z0/1-/10 z(:zz	z0/8z/10 1z:8z			NA
A0T z-8(HO	Soil	QPA 0zzzC	z0/14/10 zG3z	z0/8z/10 1z:8z			NA
A0Tz-8(H3	Soil	QPA 0zzzC	z0/14/10 10.3-	z0/8z/10 1z:8z			NA
A0Tz-8(H-	Soil	QPA 0zzzC	z0/1G10 zG8z	z0/8z/10 1z:8z			NA
A0Tz-8(H4	Soil	QPA 0zzzC	z0/1G/10 zG3z	z0/8z/10 1z:8z			NA
A0Tz-8(HG	Soil	QPA 0zzzC	z0/1G'10 z(:zz	z0/8z/10 1z:8z			NA

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Soil

A0Tz-8(H0

k AwPT

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

- g/- mL

zd03

314 W 15th Street Suite 300Project Number: 2017-074Vancouver, WA 98660Project Manager: Craig Hultgren			074 Hultgren	Α	<u>Report ID:</u> A8H0529 - 09 05 18	<u>.</u> 8 1443	
		A	analytical Resou	rces, Inc.			
		SAMPL	E PREPARATION	INFORMATION			
		Washin	gton Department of	Ecology Methods			
Prep: EPA 3546 (M	icrowave)				Sample	Default	2 L Prep
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor
Batch: BGH0638 A0T z- 8(H02 Q1	Soil	k A QPT	z0/1G/10 z(:3z	z0/8G/10 1038	1zæ(g/1mL	1zg/1mL	zđ((
Prep: EPA 5035 (M	ethanol Extractio	<u>on)</u>			Sample	Default	2 L Prep
Lab Number	Matrix	Methoy	Sampley	Preparey	'nitial/qinal	'nitial/qinal	qactor
Batch: BGH0567							

z0/1G10 z(:3z

z0/88/10 18:zz

- đ (4g/- mL

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<u>HydroCon LLC</u>	Project: <u>Coleman Wenatchee</u>	
314 W 15th Street Suite 300	Project Number: 2017-074	Report ID:
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0529 - 09 05 18 1443

QUALIFIER DEFINITIONS

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

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- F-03 Whe result for this hRyrocarbon range is elevatey yue to the presence of inviviyual analRte pea6s in the Vuantitation range that are not representative of the fuel pattern reporteyd
- F-13 Whe chromatographic pattern yoes not resemble the fuel stanyary usey for Vuantitation
- F-15 2 esults for yiesel are estimated yue to overlap from the reported oil resultd
- F-16 2 esults for oil are estimated yue to overlap from the reported yiesel resultd
- M-02 Due to matrix interference, this analRte cannot be accuratelR Vuantifieyd Whe reportey result is estimateyd
- Q-04 Spi6e recoverRany/or 2 PD is outsiye control limits yue to a nonHomogeneous sample matrixd
- Q-05 AnalRses are not controlley on 2 PD values from sample any yuplicate concentrations that are beloF times the reporting leveld
- Q-39 2 esults for sample yuplicate are significantlR higher than the sample results See yuplicate results in XC section of the reported
- S-04 Surrogate recoverR is outsive of establishey control limits yue to a sample matrix effectd
- S-05 Surrogate recoverR is estimately yue to sample yilution reVuirey for high analRte concentration any/or matrix interferenced
- S-08 WPTH x Surrogate recoverR cannot be accuratelR Vuantifiey yue to interference from coeluting organic compounys present in the sample extractd See 084zB results for accurate Surrogate recoverRd
- T-02 Whis Batch XC sample F as analRLby outsiye of the methoy specifiey 18 hour tune F inyoFd 2 esults are estimated

Analytical Resources, Inc.

- **D** Whe reportey value is from a yilution
- J Qstimatey concentration value yetectey beloF the reporting limitd
- U Whis analRte is not yetectey above the applicable reporting or yetection limitd

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

<u>HydroCon LLC</u>	Project: Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number: 2017-074	<u>Report ID:</u>
Vancouver, WA 98660	Project Manager: Craig Hultgren	A8H0529 - 09 05 18 1443

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DQW	AnalRte DQWQCWQD at or above the yetection or reporting limitd
ND	AnalRte N5 WDQWQCWQD at or above the yetection or reporting limitd
N2	2 esult Not 2 eportey
2 PD	2 elative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection 9L5 Ds7 are normallR set at a level of one half the valiyatey Limit of Xuantitation 9L5 X7d

'f no value is listey 9111117, then the yata has not been evaluatey beloF the 2 eporting Limitd

Reporting Limits: Limit of Quantitation (LOQ)

waliyatey Limits of Xuantitation 9L5 Xs7 are reportey as the 2 eporting Limits for all analRses F here the L5 X, M2 L, PXL or C2 L are reVuesteydWhe L5 X represents a level at or above the loF point of the calibration curve, that has been valiyatey accorying to Apex Laboratories" comprehensive L5 X policies any proceduresd

Reporting Conventions:

Basis: 2 esults for soil samples are generallR reportey on a 1zz% yrRF eight basisd

Whe 2 esult Basis is listey folloF ing the units as * yrR*, * F et*, or * * 9blan67 yesignationd

* <u>vrR</u>* Sample results any 2 eporting Limits are reportey on a yrRF eight basisd9ided*ug/6g yrR*7 See Percent Soliys section for yetails of yrRF eight analRsisd

Fet Sample results any 2 eporting Limits for this analRsis are normallR yrRF eight correctey, but have not been moyifiey in this cased

* 2 esults F ithout 'F et"or 'yrR' yesignation are not normallR yrR F eight correcteydWhese results are consiyerey 'As 2 eceivey'd

QC Source:

'n cases F here there is insufficient sample proviyey for Sample Duplicates any/or Matrix Spi6es, a Lab Control Sample Duplicate 9LCS Dup7 maR be analRLey to yemonstrate accuracR any precision of the extraction batchd

NonfClient Batch XC Samples 9Duplicates any Matrix Spi6e/Duplicates7 are not incluyey in this reportdPlease reVuest a qull XC report if this yata is reVuireyd

Miscellaneous Notes:

*HH" XC results are not applicabledqor example, % 2 ecoveries for Blan6s any Duplicates, % 2 PD for Blan6s, Blan6 Spi6es any Matrix Spi6es, etcd

* ¹/₂/₂" . sey to invicate a possible viscrepancRF ith the Sample any Sample Duplicate results F hen the %2 PD is not availabled 'n this case, either the Sample or the Sample Duplicate has a reportable result for this analRte, F hile the other is Non Detect 9ND7d

Blanks:

Stanyary practice is to evaluate the results from Blan6 XC Samples yoF n to a level eVual to J the 2 eporting Limit 92 L7d Hor Blan6 hits falling betF een J the 2 L any the 2 L 91 flaggey hits7, the associatey sample any XC yata F ill receive a 'BH28' Vualifierd Hor Blan6 hits above the 2 L, the associatey sample any XC yata F ill receive a 'B' Vualifier, per Apex Laboratories" Blan6 PolicRd qor further yetails, please reVuest a copR of this yocumentd

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Lisa Domenighini, Client Services Manager

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

HydroCon LLC	Project:	Coleman Wenatchee	
314 W 15th Street Suite 300	Project Number:	2017-074	Report ID:
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flaggey F ith a 'B" or 'BH28" Vualifier are potentiall B biasey high if the blan6 results are less than ten times the level founy in the blan6 for inorganic analRses, or less than five times the level founy in the blan6 for organic analRsesd

'B' any 'BHz8' Vualifications are onlR appliey to sample results yetectey above the 2 eporting Leveld

Preparation Notes:

Mixey Matrix Samples:

k ater Samples:

k ater samples containing significant amounts of seyiment are yecantey or separatey prior to extraction, any onlR the F ater portion analRLey, unless otherF ise yirectey bR the clientd

Soil any Seyiment Samples:

Soil any Seyiment samples containing significant amounts of F ater are yecantey prior to extraction, any onlR the soliy portion analRLey, unless otherF ise yirectey bR the clientd

Sampling and Preservation Notes:

Certain regulatorR programs, such as National Pollutant Discharge Qlimination SRstem 9NPDQS7, reVuire that activities such as sample filtration 9for yissolvey metals, orthophosphate, hexavalent chromium, etcd/any testing of short holy analRtes 9pT, Dissolvey 5 xRgen, etcd/be performey in the fiely 9onHite7F ithin a short time F inyoF d'n ayyition, sample matrix spi6es are reVuirey for some analRses, any sufficient volume must be proviyey, any billable site specific XC reVuestey, if this is reVuireydAll regulatorR permits shouly be revieF ey to ensure that these reVuirements are being metd

Data users shouly be aF are of F hich regulations pertain to the samples theRsubmit for testingd' f relatey sample collection activities are not approvey for a particular regulatorR program, results shouly be consiyerey estimatesdApex Laboratories F ill VualifR these analRes accorying to the most stringent reVuirements, hoF ever results for samples that are for nonHegulatorR purposes maR be acceptabled

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

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

HydroCon LLC	Project:	Coleman Wenatchee			
314 W 15th Street Suite 300	Project Number:	2017-074	<u>Report ID:</u>		
Vancouver, WA 98660	Project Manager:	Craig Hultgren	A8H0529 - 09 05 18 1443		
LABORATORY ACCREDITATION INFORMATION					
<u>TNI Certification ID: OR100062 (Primary Accreditation)</u> - <u>EPA ID: OR01039</u> All methoys any analRtes reportey from F or6 performey at Apex Laboratories are incluyey on Apex Laboratories "5 2 QLAP Scope of Certification, F ith the <u>exception</u> of anR analRte%71istey beloF :					

Apex Lab	<u>oratories</u>					
Matrix	AnalRsis	WN'_'D	AnalRte	WV'_'D	Accreyitation	
All reportey analRtes are incluyey in Apex Laboratories" current 5 2 QLAP scoped						

Secondary Accreditations

Apex Laboratories also maintains reciprocal accrevitation F ith nonHWN' states 9k ashington D5 Q7, as F ell as other state specific accrevitations not listey hered

Subcontract Laboratory Accreditations

Subcontractey yata falls outsiye of Apex Laboratories"Scope of Accrevitationd Please see the Subcontract LaboratorR report for full yetails, or contact Rour Project Manager for more informationd

Field Testing Parameters

2 esults for qiely Westey yata are provyey bR the client or sampler, any fall outsiye of Apex Laboratories" Scope of Accrevitationd

Apex Laboratories

Assa A Zomenighini

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



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

<u>HydroCon LLC</u> 314 W 15th Street Suite 300 Vancouver, WA 98660	Project: Project Number: Project Manager:	<u>Coleman Wenatchee</u> 2017-074 Craig Hultgren	<u>Report ID:</u> A8H0529 - 09 05 18 1443
Client:	APEX LABS COOLE 1 eman_01 yes Yes	Craig Hultgren Craig Hultgren ER RECEIPT FORM Element WO#: A8 ± 0.55 UPS X Swift_Senvoy _SDS_Other : $3/12/12$ @ 1035 Custody Seals? Yes NoX er #3 Cooler #4 Cooler #5 Cooler #6 Co er #3 Cooler #4 Cooler #5 Cooler #6 Co applied to out of temperature samples? Yes/ : $5/12/12$ @ 1000 s: $1/2$ Mech VDA 5 TVeads 1000 Yeads 5 $3/12/12$ @ 1000 S: $1/2$ Mech VDA 5 TVeads 1000 Yeads 5 $3/12/12$ @ 1000 MW2 9 12 For samp Yes X No Comments: MW2 9 - 15 Mech Jea NA _X	A8H0529 - 09 05 18 1443
Labeled by: Witness	s: Cooler Ins MAR D	Dected by: See Project Contact For	n: Y

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Assa & Someringhini

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Appendix D Data Quality Review Reports

то:	Craig Hultgren, HydroCon					
FROM:	Manon Tanner-Dave					
DATE:	November 19, 2018					
SUBJECT:	Laboratory Validation Report					
HydroCon TOC Site No.	Coleman Wenatchee - 2017-074					
Sampling Event Type:	Soil Sampling	Number of Samples:	17			
Laboratory Work Order:	A8H0328	Final Report Date & Time:	August 21, 2018			
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) □ Dissolved Lead (200.8) □ Sulfate (300.0) ☑ Other – Percent Dry Weight 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:

Discrepancies were noted in the cooler receipt form that the time and date information on VOA vials received for MW28-35 and MW26-33 compared to the chain of custody form. Samples were received at 14.4°C; all results were qualified as estimated (J/UJ-HT) for the temperature exceedance.

Surrogate Compounds:

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



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.

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-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.
 - o 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	(R) The sample result is reject due to serious deficiencies in the ability to
Qualifiers and	analyze the sample and meet quality control criteria. The presence or absence
Definitions:	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-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.

Sample ID	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW24-15	A8H0328-01	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW24-15	A8H0328-01	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW24-22	A8H0328-02	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW24-22	A8H0328-02	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW24-28	A8H0328-03	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW24-28	A8H0328-03	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW24-35	A8H0328-04	NWTPH-Dx	Diesel	73.0	mg/kg	F-13	J	HT, Chrom
MW24-35	A8H0328-04	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW25-19	A8H0328-05	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW25-19	A8H0328-05	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW25-22	A8H0328-06	NWTPH-Dx	Diesel	92.7	mg/kg	F-13	J	HT, Chrom
MW25-22	A8H0328-06	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW25-35	A8H0328-07	NWTPH-Dx	Diesel	239	mg/kg	F-13, F-15	J	HT, Chrom, Mi
MW25-35	A8H0328-07	NWTPH-Dx	Oil	323	mg/kg	F-03, F-16	J	HT, Other, Mi
MW26-15	A8H0328-08	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW26-15	A8H0328-08	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW26-19	A8H0328-09	NWTPH-Dx	Diesel	34.1	mg/kg	F-13	J	HT, Chrom
MW26-19	A8H0328-09	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW26-29	A8H0328-10	NWTPH-Dx	Diesel	94.8	mg/kg	F-13	J	HT, Chrom

Appendix B. Validator Qualified Data Summary Table

MW26-29	A8H0328-10	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW26-33	A8H0328-11	NWTPH-Dx	Diesel	228	mg/kg	F-13, F-15	J	HT, Chrom, Mi
MW26-33	A8H0328-11	NWTPH-Dx	Oil	288	mg/kg	F-03, F-16	J	HT, Other, Mi
MW27-15	A8H0328-12	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW27-15	A8H0328-12	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW27-19	A8H0328-13	NWTPH-Dx	Diesel	263	mg/kg	F-13	J	HT, Chrom
MW27-19	A8H0328-13	NWTPH-Dx	Oil	< 50.0	mg/kg	•	UJ	HT
MW27-39	A8H0328-14	NWTPH-Dx	Diesel	69.4	mg/kg	F-13, F-15	J	HT, Chrom, Mi
MW27-39	A8H0328-14	NWTPH-Dx	Oil	65.9	mg/kg	F-03, F-16	J	HT, Other, Mi
MW28-19	A8H0328-15	NWTPH-Dx	Diesel	< 25.0	mg/kg		UJ	HT
MW28-19	A8H0328-15	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW28-25	A8H0328-16	NWTPH-Dx	Diesel	< 25.6	mg/kg		UJ	HT
MW28-25	A8H0328-16	NWTPH-Dx	Oil	< 51.1	mg/kg		UJ	HT
MW28-39	A8H0328-17	NWTPH-Dx	Diesel	27.8	mg/kg		J	HT, Chrom
MW28-39	A8H0328-17	NWTPH-Dx	Oil	< 50.0	mg/kg		UJ	HT
MW24-15	A8H0328-01	NWTPH-Gx	Gasoline Range Organics	< 5.29	mg/kg		UJ	HT
MW24-22	A8H0328-02	NWTPH-Gx	Gasoline Range Organics	109	mg/kg		J	HT
MW24-28	A8H0328-03RE1	NWTPH-Gx	Gasoline Range Organics	179	mg/kg		J	HT
MW24-35	A8H0328-04	NWTPH-Gx	Gasoline Range Organics	19.5	mg/kg		J	HT
MW25-19	A8H0328-05	NWTPH-Gx	Gasoline Range Organics	< 6.67	mg/kg		UJ	HT
MW25-22	A8H0328-06	NWTPH-Gx	Gasoline Range Organics	6.70	mg/kg		J	HT

MW25-35	A8H0328-07	NWTPH-Gx	Gasoline Range Organics	7.98	mg/kg	J	HT
MW26-15	A8H0328-08	NWTPH-Gx	Gasoline Range Organics	< 6.18	mg/kg	UJ	HT
MW26-19	A8H0328-09	NWTPH-Gx	Gasoline Range Organics	7.69	mg/kg	J	HT
MW26-29	A8H0328-10	NWTPH-Gx	Gasoline Range Organics	33.4	mg/kg	J	HT
MW26-33	A8H0328-11	NWTPH-Gx	Gasoline Range Organics	< 7.39	mg/kg	UJ	HT
MW27-15	A8H0328-12	NWTPH-Gx	Gasoline Range Organics	< 6.83	mg/kg	UJ	HT
MW27-19	A8H0328-13	NWTPH-Gx	Gasoline Range Organics	126	mg/kg	J	HT
MW27-39	A8H0328-14	NWTPH-Gx	Gasoline Range Organics	< 6.18	mg/kg	UJ	HT
MW28-19	A8H0328-15	NWTPH-Gx	Gasoline Range Organics	< 5.88	mg/kg	UJ	HT
MW28-25	A8H0328-16	NWTPH-Gx	Gasoline Range Organics	< 7.04	mg/kg	UJ	HT
MW28-39	A8H0328-17	NWTPH-Gx	Gasoline Range Organics	28.2	mg/kg	J	HT
MW24-15	A8H0328-01	EPA 8260C	Benzene	< 0.0106	mg/kg	UJ	HT
MW24-15	A8H0328-01	EPA 8260C	Toluene	< 0.0529	mg/kg	UJ	HT
MW24-15	A8H0328-01	EPA 8260C	Ethylbenzene	< 0.0265	mg/kg	UJ	HT
MW24-15	A8H0328-01	EPA 8260C	Xylenes, total	< 0.0794	mg/kg	UJ	HT
MW24-22	A8H0328-02	EPA 8260C	Benzene	< 0.0112	mg/kg	UJ	HT
MW24-22	A8H0328-02	EPA 8260C	Toluene	< 0.0559	mg/kg	UJ	HT
MW24-22	A8H0328-02	EPA 8260C	Ethylbenzene	< 0.0279	mg/kg	UJ	HT
MW24-22	A8H0328-02	EPA 8260C	Xylenes, total	0.110	mg/kg	J	HT
MW24-28	A8H0328-03RE1	EPA 8260C	Benzene	< 0.0131	mg/kg	UJ	HT

MW24-28	A8H0328-03RE1	EPA 8260C	Toluene	< 0.0653	mg/kg	UJ	HT
MW24-28	A8H0328-03RE1	EPA 8260C	Ethylbenzene	< 0.0326	mg/kg	UJ	HT
MW24-28	A8H0328-03RE1	EPA 8260C	Xylenes, total	< 0.0979	mg/kg	UJ	HT
MW24-35	A8H0328-04	EPA 8260C	Benzene	< 0.0114	mg/kg	UJ	HT
MW24-35	A8H0328-04	EPA 8260C	Toluene	< 0.0572	mg/kg	UJ	HT
MW24-35	A8H0328-04	EPA 8260C	Ethylbenzene	< 0.0286	mg/kg	UJ	HT
MW24-35	A8H0328-04	EPA 8260C	Xylenes, total	0.117	mg/kg	J	HT
MW25-19	A8H0328-05	EPA 8260C	Benzene	< 0.0133	mg/kg	UJ	HT
MW25-19	A8H0328-05	EPA 8260C	Toluene	< 0.0667	mg/kg	UJ	HT
MW25-19	A8H0328-05	EPA 8260C	Ethylbenzene	< 0.0334	mg/kg	UJ	HT
MW25-19	A8H0328-05	EPA 8260C	Xylenes, total	< 0.100	mg/kg	UJ	HT
MW25-22	A8H0328-06	EPA 8260C	Benzene	< 0.0112	mg/kg	UJ	HT
MW25-22	A8H0328-06	EPA 8260C	Toluene	< 0.0562	mg/kg	UJ	HT
MW25-22	A8H0328-06	EPA 8260C	Ethylbenzene	< 0.0281	mg/kg	UJ	HT
MW25-22	A8H0328-06	EPA 8260C	Xylenes, total	< 0.0843	mg/kg	UJ	HT
MW25-35	A8H0328-07	EPA 8260C	Benzene	< 0.0131	mg/kg	UJ	HT
MW25-35	A8H0328-07	EPA 8260C	Toluene	< 0.0653	mg/kg	UJ	HT
MW25-35	A8H0328-07	EPA 8260C	Ethylbenzene	< 0.0326	mg/kg	UJ	HT
MW25-35	A8H0328-07	EPA 8260C	Xylenes, total	< 0.0979	mg/kg	UJ	HT
MW26-15	A8H0328-08	EPA 8260C	Benzene	< 0.0124	mg/kg	UJ	HT

MW26-15	A8H0328-08	EPA 8260C	Toluene	< 0.0618	mg/kg	UJ	HT
MW26-15	A8H0328-08	EPA 8260C	Ethylbenzene	< 0.0309	mg/kg	UJ	HT
MW26-15	A8H0328-08	EPA 8260C	Xylenes, total	< 0.0928	mg/kg	UJ	HT
MW26-19	A8H0328-09	EPA 8260C	Benzene	< 0.0113	mg/kg	UJ	HT
MW26-19	A8H0328-09	EPA 8260C	Toluene	< 0.0563	mg/kg	UJ	HT
MW26-19	A8H0328-09	EPA 8260C	Ethylbenzene	< 0.0282	mg/kg	UJ	HT
MW26-19	A8H0328-09	EPA 8260C	Xylenes, total	< 0.0845	mg/kg	UJ	HT
MW26-29	A8H0328-10	EPA 8260C	Benzene	< 0.0125	mg/kg	UJ	HT
MW26-29	A8H0328-10	EPA 8260C	Toluene	< 0.0627	mg/kg	UJ	HT
MW26-29	A8H0328-10	EPA 8260C	Ethylbenzene	< 0.0314	mg/kg	UJ	HT
MW26-29	A8H0328-10	EPA 8260C	Xylenes, total	< 0.0941	mg/kg	UJ	HT
MW26-33	A8H0328-11	EPA 8260C	Benzene	< 0.0148	mg/kg	UJ	HT
MW26-33	A8H0328-11	EPA 8260C	Toluene	< 0.0739	mg/kg	UJ	HT
MW26-33	A8H0328-11	EPA 8260C	Ethylbenzene	< 0.0369	mg/kg	UJ	HT
MW26-33	A8H0328-11	EPA 8260C	Xylenes, total	< 0.111	mg/kg	UJ	HT
MW27-15	A8H0328-12	EPA 8260C	Benzene	< 0.0137	mg/kg	UJ	HT
MW27-15	A8H0328-12	EPA 8260C	Toluene	< 0.0683	mg/kg	UJ	HT
MW27-15	A8H0328-12	EPA 8260C	Ethylbenzene	< 0.0341	mg/kg	UJ	HT
MW27-15	A8H0328-12	EPA 8260C	Xylenes, total	0.102	mg/kg	J	HT
MW27-19	A8H0328-13	EPA 8260C	Benzene	< 0.0123	mg/kg	UJ	HT

MW27-19	A8H0328-13	EPA 8260C	Toluene	< 0.0616	mg/kg	UJ	HT
MW27-19	А8Н0328-13	EPA 8260C	Ethylbenzene	0.0992	mg/kg	J	HT
MW27-19	А8Н0328-13	EPA 8260C	Xylenes, total	0.631	mg/kg	J	HT
MW27-39	А8Н0328-14	EPA 8260C	Benzene	< 0.0124	mg/kg	UJ	HT
MW27-39	A8H0328-14	EPA 8260C	Toluene	< 0.0618	mg/kg	UJ	HT
MW27-39	A8H0328-14	EPA 8260C	Ethylbenzene	< 0.0309	mg/kg	UJ	HT
MW27-39	A8H0328-14	EPA 8260C	Xylenes, total	< 0.0926	mg/kg	UJ	HT
MW28-19	A8H0328-15	EPA 8260C	Benzene	< 0.0118	mg/kg	UJ	HT
MW28-19	A8H0328-15	EPA 8260C	Toluene	< 0.0588	mg/kg	UJ	HT
MW28-19	A8H0328-15	EPA 8260C	Ethylbenzene	< 0.0294	mg/kg	UJ	HT
MW28-19	A8H0328-15	EPA 8260C	Xylenes, total	0.169	mg/kg	J	HT
MW28-25	A8H0328-16	EPA 8260C	Benzene	< 0.0141	mg/kg	UJ	HT
MW28-25	A8H0328-16	EPA 8260C	Toluene	< 0.0704	mg/kg	UJ	HT
MW28-25	A8H0328-16	EPA 8260C	Ethylbenzene	0.0528	mg/kg	J	HT
MW28-25	A8H0328-16	EPA 8260C	Xylenes, total	0.317	mg/kg	J	HT
MW28-39	A8H0328-17	EPA 8260C	Benzene	< 0.0105	mg/kg	UJ	HT
MW28-39	A8H0328-17	EPA 8260C	Toluene	< 0.0523	mg/kg	UJ	HT
MW28-39	A8H0328-17	EPA 8260C	Ethylbenzene	0.0638	mg/kg	J	HT
MW28-39	A8H0328-17	EPA 8260C	Xylenes, total	0.223	mg/kg	J	HT

то:	Craig Hultgren, HydroCon		
FROM:	Manon Tanner-Dave		
DATE:	October 15, 2018]
SUBJECT:	Laboratory Validation Report]
HydroCon TOC Site No.	Coleman Wenatchee - 2017-074		
Sampling Event Type:	Soil Sampling	Number of Samples:	18
Laboratory Work Order:	A8H0529	Final Report Date & Time:	September 5, 2018
Analysis & Method			
 ☑ Gasoline Range ☑ Diesel Range Hy □ Diesel Range Org □ Volatile Organic (☑ BETX (8021B) □ Dissolved Lead (Hydrocarbon (NWTPH-Gx) drocarbon without Silica Gel (NWTPH-Dx ganics with Silica Gel (NWTPH-DxSG) Compounds (EPA 8260C) 200.8)	:) 🗆	

- □ Sulfate (300.0)
- ☑ Other Percent solids, WA VPH/EPH

Data Package Completeness:

Data package did not include a formal case narrative form. Data package included a cover letter; no issues were noted.

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:

Discrepancies were noted in the cooler receipt form that the sample IDs on the sample jars and their associated VOAs were different.

Surrogate Compounds:

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

			Control	
Sample ID	Analyte	Surrogate %R	Limits	Qualifier/Comments
MW32-14	Diesel/Oil	110%	50-150%	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference. Since the percent recovery fell within control limits; no qualifiers were applied to the results
MW30-20	Gasoline Range Organics	157% (NWTPH-Gx) 99% (8260)	50-150% 80-120%	TPH-Gx surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. See 8260C results for accurate surrogate recovery. Since the 8260C surrogate recovery was within control limits; no qualifiers were applied to the results.
MW32-14	Gasoline Range Organics	163%	50-150%	Surrogate recovery is outside of established control limits due to a sample matrix effect. J-SSR qualify result.

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, with the exceptions noted below:

	Parent Sample	Duplicate Sample		RPD	
Analyte	MW0912-35	8080917-DUP2	RL	(CL = 30%)	Qualifier/Comments
Gasoline Range Organics	12.8	24.0	8.32	61%	Both concentrations were <5x the reporting limit and their absolute difference was <2x the reporting limit; no qualifiers were applied to the results.

	Parent Sample	Duplicate		DDD	
Analyte	MW29-24	8080916-DUP1	RL	(CL = 30%)	Qualifier/Comments
Ethylbenzene	ND (0.0168)	0.181	0.0267	200%	Parent sample result <5x the
Xylenes, total	ND (0.0656)	0.997	0.0800	175%	reporting limit (RL); duplicate sample result >5x RL. Absolute difference >2x RL; J-REP qualify results.

Arrah (a	Parent Sample	Duplicate Sample	B		
Analyte	MW30-15	8080916-DUP2	RL	(CL = 30%)	Qualifier/Comments
Xylenes, total	ND (0.0667)	0.101	0.0961	41%	Parent and duplicate sample results <5x RL. Absolute difference <2x RL; no qualifiers applied to the results.

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, with the exceptions noted below:

Blank ID	Analyte	Units	Concentration	MRL	Associated Samples	Qualifier/Comments
Blank	C10-C12	mg/kg wet	0.130 J	2.00	SL01-02	All associated results are
(BGH0638-	Aliphatics				(A8H0529-18RE1)	>5x the blank concentration;
BLK1)	C21-C34	mg/kg wet	0.600 J	2.00		no qualifiers applied to the
	Aliphatics					results.
	C12-C16	mg/kg wet	0.330 J	2.00		
	Aromatics					
	C16-C21	mg/kg wet	0.920 J	2.00		
	Aromatics					
	C21-C34-	mg/kg wet	1.50 J	2.00		
	Aromatics					

Field Duplicate(s):

Not applicable.

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-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.

Laboratory qualifiers for NWTPH-Gx:

- (S-04) Surrogate recovery is outside of established control limits due to a sample matrix effect.
 - o J/UJ-SSR qualify affected results.

Laboratory qualifiers for BTEX:

- (M-02) Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
 - o J/UJ-Mi qualify affected results.
- (Q-04) Spike recovery and/or RPD is outside control limits due to a non-homogenous sample matrix.
 - J/UJ-REP 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	(R) The sample result is reject due to serious deficiencies in the ability to				
Qualifiers and	analyze the sample and meet quality control criteria. The presence or absence				
Definitions:	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-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.
- (M-02) Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- (Q-04) Spike recovery and/or RPD is outside control limits due to a non-homogenous sample matrix.
- (S-04) Surrogate recovery is outside of established control limits due to a sample matrix effect.

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.
- Mi = Matrix interference.
- Other = Other, described in data validation report.
- REP = Replication (MS/MSD or laboratory duplicate RPD; laboratory triplicate RSD), field replicate. Precision (all replicates).
- SSR = Surrogate spike/labeled compound recovery.

Sample ID	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW29-24	A8H0529-02	NWTPH-Dx	Diesel	81.2	mg/kg	F-13	J	Chrom
MW30-20	A8H0529-06	NWTPH-Dx	Diesel	424	mg/kg	F-13	J	Chrom
MW30-28	A8H0529-07	NWTPH-Dx	Diesel	1900	mg/kg	F-13	J	Chrom
MW30-32	A8H0529-08	NWTPH-Dx	Diesel	407	mg/kg	F-13	J	Chrom
MW30-40	A8H0529-09	NWTPH-Dx	Diesel	266	mg/kg	F-13, F-15	J	Chrom, Mi
MW30-40	A8H0529-09	NWTPH-Dx	Oil	250	mg/kg	F-03, F-16	J	Other, Mi
MW31-28	A8H0529-11	NWTPH-Dx	Diesel	564	mg/kg	F-13	J	Chrom
MW0912-35	A8H0529-13	NWTPH-Dx	Diesel	176	mg/kg	F-13, F-15	J	Chrom, Mi
MW0912-35	A8H0529-13	NWTPH-Dx	Oil	117	mg/kg	F-03, F-16	J	Other, Mi
MW1012-35	A8H0529-14	NWTPH-Dx	Diesel	50.6	mg/kg	F-13	J	Chrom
MW32-14	A8H0529-16RE1	NWTPH-Dx	Diesel	3400	mg/kg	F-13	J	Chrom
MW32-14	A8H0529-16RE1	NWTPH-Gx	Gasoline Range Organics	1930	mg/kg	S-04	J	SSR
MW29-24	A8H0529-02	BTEX (8260)	Ethylbenzene	ND	mg/kg	Q-04	UJ	REP
MW29-24	A8H0529-02	BTEX (8260)	Xylenes, total	ND	mg/kg	Q-04	UJ	REP
MW30-28	A8H0529-07	BTEX (8260)	Xylenes, total	0.123	mg/kg	M-02	J	Mi

Appendix B. Validator Qualified Data Summary Table

Appendix E Step Drawdown Tests






Appendix F Upgrades to Groundwater Remediation System





10C/liC

8\Sept 2018\2017









- CONTRACTOR SHALL REMOVE EXISTING WELL MONUMENTS PRIOR TO INSTALLING NEW WELL VAULTS.

COLEMAN OIL COMPANY 3 CHEHALIS ST. WENATCHEE, WA









