Groundwater Monitoring Report
August 2019

Coleman Oil Company Facility
3 East Chehalis Street
Wenatchee, Washington

Prepared for:
Coleman Oil Company
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Lewiston, Idaho 83501

October 21, 2019

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HydroCon Project No: 2017-074

Prepared by:

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Acronyms

amsl	above mean sea level
bgs	below ground surface
BNSF	Burlington Northern – Santa Fe Railroad
COC	Chemical of Concern
Coleman Oil	Coleman Oil Company
DRPH	diesel range petroleum hydrocarbons
Ecology	Washington Department of Ecology
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane
EEC	Environmental Engineering & Consulting, Inc.
EPA	Environmental Protection Agency
GRPH	gasoline range petroleum hydrocarbons
HydroCon	HydroCon Environmental LLC
µg/L	micrograms per liter
LCS/LCSD	Laboratory Control Sample/ Laboratory Control Sample Duplicates
LNAPL	light nonaqueous-phase liquid
MDL	method detection limit
MRL	method reporting limit
MTBE	Methyl tert-butyl ether
MTCA	Model Toxics Control Act
MNA	monitored natural attenuation
ORPH	oil range petroleum hydrocarbons
PAHs	polynuclear aromatic hydrocarbons
PID	photoionization detector

3.0 FIELD WORK

This section describes the sampling procedures, analytical methods, groundwater conditions, and laboratory results for wells sampled or monitored in August 2019. A data quality review is included.

3.1 Groundwater Sampling Procedures

The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to non-pumping conditions prior to sampling and water level monitoring. The depth to water and product thickness were measured in all the Site wells on August 29, 2019 (Table 2). HydroCon used this data set to calculate groundwater elevations and prepare the groundwater elevation contour plot (Figure 3).

Prior to collection of depth to water measurements, the well cap on each well was removed and the water level was allowed to equilibrate. The depth to water in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north side of the top of the polyvinyl chloride casing) at each well.

HydroCon collected groundwater samples on August 26 through August 28 from 27 site monitoring and recovery wells (Tables 2 and 3). The following wells shown on Table 2 were not sampled for the following reasons:

- FB-9 and FB-10 are reconnaissance groundwater samples. Monitoring wells were not installed in these direct-push boreholes.
- HydroCon did not collect groundwater samples from MW-1, MW-2, MW-3, MW-4, MW-5, MW-7 and MW22. HydroCon petitioned Ecology to cease sampling in these wells due to improper well construction, no detection of chemicals of concern (COCs) in the well, monitoring well MW-7 being so close to MW-23, and MW22 being located outside of the plume that originates at the Coleman Oil Site. This request was approved by Ecology[1].
- MW15, MW18, and MW19 were not sampled due to insufficient water in the wells.
- MW29 had 0.12 feet of product and was not sampled.

Three field duplicate samples (MW100, MW101, and MW102) were collected from MW-6, MW17, and BH01R, respectively for quality assurance/quality control (QA/QC) purposes.

Prior to groundwater sampling, monitoring wells were purged with a low-flow peristaltic pump or bladder pump equipped with a new length of low-density polyethylene tubing attached to a new length of silicone tubing in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling[2]. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each well. During purging, water quality was monitored using a Quanta Multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters

[1] Washington State Department of Ecology. *Comments on Supplemental Remedial Investigation Report*. August 16, 2018.

[2] *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (April 1996).* EPA/540/S-95/504

monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each well was purged until all six water quality parameters stabilized or the minimum parameter subset of pH, specific conductance, temperature, and turbidity and/or dissolved oxygen stabilized. *Groundwater Sample Collection Forms* and *Daily Field Reports* are included as Appendix A.

It should be noted that HydroCon collected additional groundwater data during this groundwater sampling event to establish a baseline for monitored natural attenuation (MNA) parameters in the site wells including ferrous iron. HydroCon used Hach Kits to measure the ferrous iron content in the wells. This measurement was performed during sample collection and recorded on the Groundwater Sample Collection Forms (Appendix A).

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported under chain-of-custody to APEX laboratory of Tigard, Oregon, for laboratory analysis. Some of the MNA parameters (nitrate, sulfate, and alkalinity) were analyzed by Cascade Analytical Laboratory in Yakima due to short holding times.

Purge water generated during the monitoring event was collected in 5 gallon pales and transferred to the onsite treatment system for treatment and discharge to the City sanitary system.

3.2 Laboratory Analysis

The analytical protocols for the samples collected at the Property include the required testing for petroleum releases for gasoline (Table 830-1 in the MTCA Cleanup Regulations Chapter 173-340 WAC). The analytical methods include:

- GRPH using Northwest Method NWTPH-Gx
- DRPH and ORPH using Northwest Method NWTPH-Dx
- BTEX using EPA Method 8260C
- Alkalinity by Method SM2320B
- Total Manganese by EPA Method 200.8
- Nitrate and Sulfate by EPA Method 300.0
- Dissolved Methane by Method RSK 175

4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Conditions

HydroCon measured water levels at 30 wells on August 29, 2019, the day after the groundwater sampling had been completed at the site. The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to static (non pumping) conditions. The depth to water measurements for August 29, 2019 and calculated groundwater elevations at each well are summarized on Table 2. It should be noted that monitoring wells MW15 and MW18 were dry, the pump in MW10R prevented collection of the water level in the well, and MW22 was not measured so no groundwater elevations for those wells could be calculated. The remediation system was restarted before noon on August 29 after the groundwater level measurements were completed.

On August 29, 2019 the depth to water at the Site ranged from 7.53 feet bgs (MW-3) to 38.00 feet bgs (MW-5) and groundwater elevations ranged from 617.78 (MW30) to 650.73 (MW-3) feet amsl. A groundwater elevation contour plot was prepared from this data set (Figure 3). Groundwater flow across the Site was generally to the northeast with a more easterly flow in the southern portion of the Site. The groundwater gradient between MW13R, near the middle of the property, and MW22 was 0.065 ft/ft. The gradient in the southern portion of the Site between MW-2 and MW-5 is much steeper at 0.42 ft/ft.

Vertical gradients were calculated for well pairs MW-1/MW01S and MW-3/MW03S located in the southern portion of the Site. These well pairs are located within 10 horizontal feet of each other. The vertical hydraulic gradient within an aquifer (or between two aquifers separated by an aquitard) is calculated by dividing the difference in hydraulic head (or water level elevation) by the vertical (elevation) distance between the well screen midpoints. Table 6 provides the parameters and calculations for the vertical gradients of the well pairs.

The groundwater elevations for each well pair are very similar with slightly higher elevations for the deeper wells (MW-1 and MW-3) indicating a very slight upward vertical gradient. The calculated vertical gradient for MW-1/MW01S was 0.086 ft/ft and the vertical gradient for MW-3/MW03S was 0.017 ft/ft for the August 29, 2019 measurement.

These very small vertical gradients indicate that vertical gradients do not play a significant role in contaminant distribution or transport, at least in the southern portion of the Site. The vertical gradients for MW-1/MW01S were nearly identical to the three previous groundwater monitoring measurements.

4.2 Groundwater Sampling Results

Laboratory analytical results are reported as micrograms per liter (µg/L) or parts per billion. The results are provided on Table 3 and laboratory reports are included as Appendix B. A summary of the results for each constituent sampled is provided below.

Gasoline Range Petroleum Hydrocarbons

GRPH was detected above the laboratory's method reporting limit (MRL) in 14 wells including MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW28, BH01R, BH-2, and BH-3. The GRPH concentration ranged up to 3,510 µg/L with the highest concentration at MW14. The MTCA Method A cleanup level for GRPH is 800 µg/L and was exceeded in the samples collected from MW-8, MW09R, MW10R, MW-11, MW13R, and MW14. A significant reduction in the GRPH concentration is seen in the sample collected from MW-13R compared to the previous groundwater monitoring event. This is attributed to the remedial excavation performed in June 2019 near the former Control Valve Building and former Tank Farm B.

Diesel Range Petroleum Hydrocarbons

DRPH was detected above the MRL in 26 wells with concentrations ranging up to 6,730 µg/L. The highest DRPH concentration was detected at MW17. The only wells that did not have a detection of DRPH above the MRL were MW12 and MW31. The MTCA Method A cleanup level for DRPH of 500 µg/L was exceeded in the samples collected from MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, and MW30. It should be noted that 0.12 feet of product was measured in MW29 and no sample was collected from that well.

Oil Range Petroleum Hydrocarbons

ORPH was not detected above the MRL in any of the samples. It should be noted that the MRL in the MW10R sample (1,510 ug/L) exceeds the MTCA Method A cleanup level of 500 µg/L. Therefore it is unknown if the results comply with the cleanup standard.

Benzene

Benzene was detected above the MRL in 5 wells including MW-8, MW13R, MW14, MW17, and BH01R at concentrations ranging up to 96.4 µg/L. The highest concentration was seen in MW13R. The MTCA Method A cleanup level for benzene (5 µg/L) was exceeded in the samples collected from MW13R and MW14.

Toluene

Toluene was not detected above the MRL in any of the samples.

Ethylbenzene

Ethylbenzene was detected in 4 wells above the MRL including MW-8, MW10R, MW13R, and MW14 at concentrations up to 8.52 µg/L. None of the concentrations exceed the MTCA Method A cleanup level of 700 µg/L.

Total Xylenes

Total xylenes were detected above the MRL in the samples collected from 3 wells including MW-8, MW10R, and MW13R at a concentration up to 28.5 µg/L. None of the concentrations exceed the MTCA Method A cleanup level of 1,000 µg/L.

Polynuclear Aromatic Hydrocarbons

Polynuclear Aromatic Hydrocarbons (PAHs) were not analyzed in any of the wells during this sampling event. Historical results are provided in Table 4.

4.3 Monitored Natural Attenuation Parameters

The August 2019 groundwater sampling event included analysis of geochemical parameters used in monitored natural attenuation (MNA) at petroleum contaminated sites. This sampling event was done to establish a baseline from which to assess if natural attenuation is occurring at the site. The use of MNA will be considered as a method to use to monitor post-remediation groundwater quality at the site. In general, a plume of petroleum hydrocarbons that is undergoing natural attenuation should have decreasing amounts of dissolved oxygen, nitrate, sulfate, and redox potential and an increase in ferrous iron, methane, manganese, and alkalinity[3].

Laboratory analytical results are summarized on Table 5 and the laboratory reports are included as Appendix B. A summary of each MNA parameter is provided below.

4.3.1 Field Parameters

Dissolved Oxygen – The dissolved oxygen content in the samples collected from the site ranged from 0.18 to 2.77 mg/L. These low values indicate that groundwater at the site has a low oxygen content[4].

Redox Potential – Redox potential is a measure with which a molecule will accept electrons. It is measured in millivolts (mV). The more positive the redox potential, the more readily a molecule can be reduced. The redox potential in the samples collected from the site ranged from -196 mV to 128.4 mV. A total of 19 samples had a negative reading, 6 had a positive reading, and 1 had a reading of 0 mV.

pH – pH is a measure of the acidity or alkalinity of a solution. The pH scale ranges from 0 to 14. A pH less than 7 is considered to be acidic. A pH greater than 7 is considered to be basic or alkaline. The pH in the samples collected at the site ranged from 5.97 to 7.43.

4.3.2 Chemical Analysis

Nitrate – Nitrate was detected above the MRL in only three wells (MW01S, MW16, and MW32) ranging from 0.35 to 2.0 mg/L. Nitrate concentrations below background in areas with dissolved contamination provide evidence for biodegradation[4].

Sulfate – Sulfate was detected above the MRL in each well except MW-8, MW-11, and MW-4 at concentrations ranging from 0.18 to 78.4 mg/L. Sulfate concentrations less than background in areas with dissolved contamination provide evidence for biodegradation[4].

Manganese – Manganese was detected in each well ranging from 52.8 to an estimated 10,700 mg/L.

Alkalinity – Alkalinity ranged from 148 to 619 mg/L in the samples collected from the site.

Methane – Methane was detected in the samples collected from every well except MW-16. Detections ranged from 3.1 µg/L to 8,100 µg/L.

[3] *User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater,* Toxics Cleanup Program Publication No. 05-09-091. July Ecology, July 2005.

[4] *User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater,* Toxics Cleanup Program Publication No. 05-09-091A. July Ecology, July 2005.

Ferrous Iron – Ferrous iron ranged from 0.0 to 6.5 mg/L in the samples collected from the site.

While future testing of these parameters is needed to adequately evaluate the presence and progress of natural attenuation, there are preliminary indications that biodegradation is active at the Site.

4.4 Data Quality Review

Laboratory testing of groundwater are included in Appendix B as APEX Work Orders A9C1035. The *Data Quality Review Report* is included in Appendix C. 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 by the laboratory due to matrix interference, compound identification issues, limited sample volume and/or LCS/CCV recoveries. These qualifiers resulted in validation qualifiers of estimated quantity (J) and estimated and not detected (UJ). No data were rejected and completeness was 100 percent.

All results are usable for their intended purpose. Data qualifications are identified in detail in full *Data Validation Report* included in Appendix C.

5.0 DISCUSSION

This section provides a discussion of the August 2019 groundwater monitoring event.

5.1 Discussion of Laboratory Results

Results of the August 2019 groundwater monitoring event indicated that 17 of the 27 wells sampled at the Site (MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, MW30, BH01R, BH-2, and BH-3) have one or more COC above their respective CUL. This is a decrease of 2 wells compared to the results of the March 2019 groundwater monitoring results. However, it should be noted that monitoring wells MW15, MW18, and MW19 were dry or had an insufficient amount of water to sample and MW29 had product so no samples were collected to assess water quality in these wells. Trend plots were not prepared for the wells not sampled.

5.2 Trends in GRPH and DRPH Concentrations in Groundwater

HydroCon has prepared trend plots of GRPH and DRPH the 27 wells sampled (Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h). A discussion of groundwater trends of each these wells are provided below.

BH-1/BH01R – DRPH: A significant increase began in December 2018 through March 2019 followed by significant decrease in August 2019. GRPH: Minor fluctuation in this well with no apparent trend. Pumping began in this well in May 2018.

BH-2 – DRPH appears to be fluctuating with no apparent trend. A general decreasing trend in GRPH is observed in this well.

BH-3 – DRPH: The concentration decreased in this well through August 2018. Thereafter, an increasing trend was observed through March 2019 followed by a downward trend over the last two sampling events. GRPH: The concentration decreased significantly from its high in April 2017 to 9/2017. A nearly flat trend has been observed since.

RW-1 – DRPH: A general decreasing trend has occurred from its high in April 2017 with an upward fluctuation in August 2018 (all below the CUL). GRPH: There's been no detection above the MRL since sampling began.

MW01S – DRPH & GRPH: The concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW03S – –Concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below their respective CUL since sampling began

MW-6 - DRPH: The concentrations fluctuate with an increasing trend since March 2019. GRPH: A decreasing trend with concentrations below the CUL.

MW-8 – DRHP: A decreasing trend from September 2017 through November 2018 with a spike over 2,000 µg/L in March 2019 then down to less than 1,500 µg/L in August 2019. GRPH: trending down to a concentration (899 µg/L) slightly above the CUL in August 2019.

MW-9/MW09R –DRPH: The concentration has fluctuated with an increasing trend since August 2018. GRPH fluctuated in 2018 but has stabilized around 1,000 µg/L, slightly above the CUL. Pumping

began in this well in May 2018.

MW-10/MW10R – DRPH: The concentration fluctuated in this well until pumping began in May 2018. A relatively flat with slightly increasing trend has been observed since at concentrations above the CUL. GRPH: The concentration has been relatively flat in this well at concentrations above the CUL. Pumping began in this well in May 2018.

MW-11 –DRPH: The concentration decreased in this well from September 2017 with a slight increasing trend after August 2018. GRPH fluctuates within a narrow range of concentrations that exceed the CUL.

MW12 – DRPH: The concentrations have fluctuated between non-detect to low concentrations below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW13/MW13R – DRPH: A slightly increasing trend in DRPH concentrations was observed in this well through March 2019 and then a decreasing trend afterwards. GRPH: High concentrations have been observed in this well since sampling began with a significant decrease after the remedial excavation.

MW14 – DRPH: A slight increasing trend has been seen in this well with concentrations above the CUL. GRPH: Fluctuating high concentrations above the CUL are seen in this well.

MW16 – DRPH: Low concentrations below the CUL fluctuate in this well. GRPH: There's been no detection above the MRL since sampling began.

MW17 –DRPH: An increasing trend above the CUL has been seen since August 2018. GRPH: A decreasing trend has been observed with the August 2019 concentration below the CUL.

MW20 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW21 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW23 – DRPH fluctuates within a narrow range. The concentration is currently slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW24 – DRPH: A decreasing trend since a high was recorded in November 2018. The concentration remains above the CUL. GRPH: The concentration has fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW25 – DRPH: Low concentrations below the CUL have trended higher with a slight decrease in August 2019. GRPH: There's been no detection above the MRL since sampling began.

MW26 – DRPH: Low concentrations have fluctuated in this well with the current concentration below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW27 – DRPH: An increasing trend of low concentrations below the CUL has been observed since November 2018. GRPH: There's been no detection above the MRL since sampling began.

MW28 – DRPH: An increasing trend in concentrations until March 2018 followed by a decreasing trend. The current concentration is above the CUL. GRPH: Low concentrations below the CUL

have remained relatively flat since November 2018.

MW30 – DRPH: An increasing trend was observed until March 2019 followed by a slight decrease. The current concentration is slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW31 – DRPH and GRPH have not been detected above the MRL since sampling began.

MW32 –DRPH: Low concentrations below the CUL have increased since November 2018. GRPH has decreased to concentrations below the MRL since August 2018.

Trends in groundwater sampling at the Site wells can also be summarized as shown on Table 7. The table lists all 41 Site wells with the number of CUL exceedances for GPPH and DRPH in the last 4 sampling events. For wells with CUL exceedances in the last 4 sampling events, the percent change in concentration since the last quarter is shown. Wells that were not sampled in this last sampling event as indicated as no sample (NS).

For DRPH, 11 of the wells were not sampled, 18 had at least one CUL exceedance in the last 4 quarters, 7 of which had an increase in concentration since the last sampling event and 11 had a decrease. The increase in concentration ranged from 3 to 98 percent (MW19) and decrease in concentration ranged from 10 to 612 percent (BR01R). The average change in DRPH concentration in the last two sampling events for these wells was a decrease of 66 percent.

For GRPH, 11 of the wells were not sampled, 10 had at least one CUL exceedance in the last 4 sampling events, 4 of which had an increase in concentration since the last sampling event and 6 had a decrease. The increase in concentration ranged from 7 to 307 percent (MW20) and decrease in concentration ranged from 15 to 2,850 percent (MW13/MW13R). The average change in GRPH concentration in the last two sampling events for these wells was a decrease of 275 percent.

5.3 Extent of Groundwater Contamination

The August 2019 groundwater results for GRPH and DRPH are plotted on Figures 5 and 6 and iso-concentration contours were prepared to illustrate the magnitude and extent of each contaminant at the Site. Red colored shading was used to graphically display the plume boundary. Areas of higher concentration are shaded in darker red. The seep area (soil samples SL01 through SL04) are included on the figures since the seep water is in contact with impacted soil and shows the location of this area relative to areas of impacted groundwater.

5.3.1 Diesel Range Petroleum Hydrocarbons

The extent of DRPH contamination in groundwater is illustrated on Figure 5. A plume of DRPH impacted groundwater with DRPH levels greater than the 500 µg/L CUL is present at the site from south of MW13R and extends northeast slightly beyond monitoring well MW21. There are four areas within the plume that have had consistent elevated DRPH concentrations above 2,000 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of DRPH (2,180 µg/L) occurred in MW13R which is located within the footprint of the former Tank Farm B and the former Control Valve Building.
- The area encompassing monitoring wells MW17, MW09R to BH-2. The concentration of

DRPH ranges from 5,880 to 6,730 µg/L. Each of these three wells is currently being used to extract product and groundwater from the Site.

- The area of monitoring wells MW19, BH01R, MW28 and MW29. The highest DRPH concentration (4,300 µg/L) occurred in MW19 and monitoring well MW29 had 0.12 feet of LNAPL during the August 2019 groundwater monitoring.
- The area near well MW10R. MW10R had a DRPH concentration of 3,620 µg/L. Monitoring wells MW21 and MW24 have DRPH levels above the CUL. Wells MW10R and MW24 are being used to extract product and groundwater from the Site.

Groundwater with DRPH levels greater than the 500 µg/L CUL was also present in August 2019 at monitoring wells MW-6, MW-8 and MW-11 and BH-3.

Areas with DRPH concentrations less than 500 µg/L (Method A cleanup level) include the area of the Coleman property south of Tank Farm A, much of the eastern part of the Coleman Property and adjacent Worthen Street, the northwest portion of Chehalis Street, and the line of wells east of Worthen Street including and between MW25 and RW-1, except BH-3. This latter area is near the observed seep areas and reinforces the role of preferential pathways in the distribution of subsurface contaminants.

5.3.2 Gasoline Range Petroleum Hydrocarbons

The extent of GRPH contamination in groundwater is illustrated on Figure 6. A plume of GRPH impacted groundwater is present from the Coleman Oil facility from south of MW13R and extends northwest towards monitoring well MW21. There are six localized areas within the plume that have elevated GRPH concentrations above the MTCA Method A CUL of 800 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of GRPH (3,510 µg/L) is present in MW14 which is located immediately downgradient of the footprint of former Tank Farm B and former Control Valve Building. A significant reduction in GRPH concentration in this area of the site is present compared to the previous quarter and is attributed to the remedial excavation that occurred in June 2019.
- The area near monitoring wells MW-11 and MW-8 have GRPH ranging from 899 to 1,230 µg/L. This area is located within the 2017 remedial excavation area where sump #5 was located. Sump #5 had one of the highest amounts of recovered product at the Site.
- The area near monitoring wells MW17 and MW09R have GRPH concentrations ranging from 655 to 1,080 µg/L. Monitoring well MW09R is currently being used to extract product and contaminated groundwater from the Site.
- The area near BH01R has slightly elevated GRPH concentrations (518 ug/L). Although no sample was collected from MW29 due to the presence of LNAPL in the well, it is presumed that elevated GRPH concentration is present at this location. Both of these wells are used to extract product and contaminated groundwater from the Site.
- The area near monitoring well MW10R has an elevated GRPH concentration (1,270 µg/L). This well is used to extract product and contaminated groundwater from the Site. Well MW21 farther to the north has an elevated GRPH concentration of 453 µg/L that does not exceed the CUL.

- Monitoring well BH-3 has a GRPH concentration (816 µg/L) that slightly exceeds the MTCA Method A cleanup level. This well is located upgradient of the seeps. This reinforces the role of preferential pathways in the distribution of subsurface contaminants, as stated above.

The overall distribution of GRPH in groundwater is similar to the DRPH distribution and areas with concentrations less than 800 µg/L (Method A cleanup level) are very similar to areas below the DRPH cleanup level.

6.0 FUTURE MONITORING SCHEDULE

6.1 Daily Columbia River Level and Water Level Measurements

Environmental Engineering & Consulting, Inc. (EEC) manages the containment booms on the Columbia River and recovery of groundwater and product from the current nine recovery wells at the Site, treatment of the recovered groundwater and discharge of the treated water to the City of Wenatchee sewer. EEC's daily tasks includes monitoring the water level at a surveyed reference location along the Columbia River and water and product levels in the nine recovery wells at the Site (MW09R, MW10R, BH01R, MW17, MW24, MW28, MW29, MW30, and MW32) using a clean electronic oil/water interface probe.

These measurements are recorded in spreadsheet files and are provided to Ecology, Coleman Oil, and HydroCon monthly or every 2 weeks (bi-weekly). HydroCon will include these measurements in the Annual Operations and Maintenance (O&M) Monitoring Reports.

6.2 Weekly to Monthly Water Level and Product Thickness Measurements

EEC assists HydroCon with the collection of depth to water and product level measurements of all the Site wells on a bi-weekly to monthly basis following the same protocol as the daily water and product level measurement task. EEC utilizes a Well Product Monitoring & Recovery spreadsheet to record these data (Appendix D). This form is provided to HydroCon so that the data can be entered into spreadsheets (i.e., Table 2). This information also is used to assess seasonal groundwater flow direction patterns and if there is correlation between groundwater levels in the aquifer and the Columbia River stage.

6.3 Future Groundwater Sampling

The next groundwater monitoring event is tentatively planned for March 2020. A list of wells that will be sampled and associated laboratory analysis is provided on Table 8.

As discussed above, Ecology agreed with HydroCon that collection of groundwater samples from monitoring wells MW-1 through MW-5, MW-7, and MW22 was not necessary during the August 2019 sampling event. These wells will not be included in future groundwater monitoring events unless requested by Ecology.

Ecology also requested vertical gradient data from MW-1/MW01S and MW-3/MW03S and asked that water levels be measured in these well clusters at least two times so that vertical gradient data can be verified. HydroCon has included the vertical gradient data from the last three groundwater monitoring events. This information is provided in Section 4.1 of this report. Unless requested by Ecology, HydroCon will no longer include vertical gradient data from these wells in future monitoring reports.

7.0 QUALIFICATIONS

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

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

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

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

8.0 REFERENCES

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———. 2019f. *Additional Interim Actions Addendum #3 – Remedial Excavation Report* – July 25.

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EXECUTIVE SUMMARY

This Groundwater Monitoring Report provides the scope and findings of groundwater monitoring that was performed in August 2019. This monitoring event was performed to assess groundwater quality at the Site following the completion of the Supplemental Remedial Investigation (SRI) performed last year as well as to document the direction and gradient of groundwater flow and groundwater contaminant levels.

Routine groundwater monitoring will continue for the foreseeable future until a reduced monitoring schedule is approved by the Washington State Department of Ecology (Ecology). Groundwater monitoring includes the following tasks and reporting:

- Turn off the pumps on August 24, 2019 at monitoring wells MW09R, MW10R, BH-1, MW17, MW24, MW28, MW29, MW30 and MW32 where groundwater and product recovery are being performed.
- Collect depth to water and product at each of the Site monitoring and recovery wells on August 29, 2019 one day after groundwater sampling procedures were completed at the site.
- Collect groundwater samples for chemical analysis at selected wells listed on Table 6.
- Monitored natural attenuation parameters were included in this sampling event at all wells sampled to establish a baseline.
- Review the laboratory results and perform a data validation review and summary.
- Compile the depth to water, product level information, and analytical data into summary tables and figures.
- Prepare a discussion on the laboratory results, groundwater flow direction and gradient, trends in groundwater chemistry, and the extent of gasoline range petroleum hydrocarbons (GRPH) and diesel range petroleum hydrocarbons (DRPH) contamination in groundwater at the site.
- Update the tentative schedule of future groundwater monitoring events.

1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this Groundwater Monitoring Report on behalf of Coleman Oil Company (Coleman Oil) to assess groundwater quality following the release of renewable diesel (R99) fuel from leaking underground piping at the Coleman Oil fuel storage facility at 3 Chehalis Street in Wenatchee, Washington (herein referred to as the Property). This report has been prepared to meet 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 Ecology with an effective date of October 30, 2017 (Agreed Order).

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 Property and adjacent properties where hazardous substances have come to be located in soil, groundwater, and surface water at concentrations suspected to exceed applicable cleanup levels as a result of releases at the Property (herein referred to as the Site).

1.1 *Document Organization*

The Groundwater Monitoring Report is organized as follows:

Section 2, Background Information, provides a description of the Site, Property ownership, and geologic and hydrogeologic setting.

Section 3, Field Work

Section 4, Groundwater Monitoring Results

Section 5, Discussion

Section 6, Future Monitoring Schedule

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2.0 BACKGROUND INFORMATION

The following section provides a summary of the Site location and description, geologic setting, historical land use, environmental history, and contaminants and media of concern at the Site. Most of the information provided below is summarized from the Supplemental Remedial Investigation (SRI) Work Plan (HydroCon 2018a) and the 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 R99 in March 2017. Additional Site history is documented in the SRI Report.

The Site was operated as a bulk fuel facility from 1921 to 2017. Coleman Oil operated the bulk fuel facility from Coleman Services IV, LLC's purchase of the Property in January 2007 until its decommissioning in 2017.

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 line tightness testing revealed that two lines could not hold pressure and a review of Coleman Oil inventory records indicated that the release was most likely from the R99 renewable diesel fuel line. Oil storage, loading and unloading of trucks for oil distribution was terminated in 2017 except for a small underground storage tank that supplies fuels to the adjacent cardlock fueling facility.

Subsequent testing included the installation of groundwater monitoring wells, soil borings, and test pits in 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 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 in the Columbia River in the observed sheen discharge area to recover product since discovery of the release. This practice has continued along with daily reporting regarding Columbia River conditions, now reduced to daily observations but weekly reporting.

- 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.
- Farallon Consulting and Ecology's consultant (Environmental Partners, Inc. [EPI] installed fifteen wells at the Site (MW-1 through MW-11, BH-1 through BH-3, and RW-1). Product recovery via skimming using a peristaltic pump and tubing and/or passive recovery using hydrophobic socks has occurred in some of the wells.
- In April 2018, HydroCon performed a supplemental remedial investigation (SRI) that included the addition of fourteen new 4-inch diameter monitoring wells (MW12 through MW23, MW01S, MW03S). Three wells with persistent light nonaqueous-phase liquid (LNAPL) measurements (MW-9, MW-10, and BH-1) were fitted with pumps and connected with underground piping for pressurized air to operate the pumps, and 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 and into storage tanks. The treated water is analyzed prior to discharge in batches under an agreement between Coleman Oil and the City of Wenatchee into the City's sanitary sewer system. Pumping of the three wells began on May 5, 2018.
- In August 2018 nine new 4-inch diameter monitoring wells (MW24 through MW32) were installed at the Site. Two of the wells used to recover product and contaminated groundwater (MW-9 and MW-10) were deepened, completed as 4-inch diameter wells, and renamed MW09R and MW10R, respectively.
- A release of diesel and gasoline from a 55-gallon drum onto the ground surface occurred at the Site near the northeastern corner of Tank Farm A in early September 2018. A total of 16.83 tons of petroleum contaminated soil was removed by remedial excavation. Confirmation soil sampling results indicated that the lateral extent of contamination had been removed. However, the concentration of GRPH and DRPH in the excavation floor sample collected near the groundwater interface exceeded their respective MTCA Method A cleanup levels. No further excavation was attempted due to the presence of the Tank Farm A containment and a massive boulder that was too large to remove using the excavation equipment. Further remedial action in this area will be considered in the feasibility study that will be prepared for the Site.
- The remediation system for recovering product and treating groundwater was expanded in November 2018 to include six more recovery points (MW17, MW24, MW28, MW29, MW30, and MW32). The modified remediation system now consists of three separate zones that pump LNAPL and contaminated groundwater into an associated OWS. These zones include

the MW09R zone (MW09R, MW17, and MW32); the MW10R zone (MW10R, MW24, and MW28); and the BH-1 zone (BH-1, MW29, and MW30) with all 9 wells active. The expanded remediation system began pumping on November 2, 2018.

As of early December 31, 2018, a total of 449.34 gallons of product had been recovered (HydroCon 2018b). The majority of the product is believed to be R99 from the 2017 release. Other fuel products have been identified by forensic analysis to be present in the subsurface including gasoline, diesel fuel, and lubricating oil so it is possible that some of the recovered product is something other than R99.

2.4 Geologic & Hydrogeologic Setting

The Site is located in the Wenatchee Valley approximately 150 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-east 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, cobbles and boulders. 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. The MW22 area has been disturbed by previous excavation and has been backfilled with construction and other debris.

Contaminant transport and groundwater flow appears to follow the surface of the Chumstick formation and field observations paired with analytical data suggest that the petroleum contamination penetrates a few feet into the formation and travels laterally within the shaley sandstone and shale/siltstone/mudstone 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 (near the river bank) where both are more to the east. Aquifer testing performed in February 2018 demonstrated that none of the wells tested are hydraulically connected. However, over 200 gallons of R99 (based on product recovery totals) has been recovered from the Columbia River with the apparent discharge points being west of monitoring wells BH-2 (south) to MW-10 (north).

2.5 Hydraulic Testing

Hydraulic testing of the aquifer beneath the Site has been conducted on two occasions and are 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 to better understand contaminant flow across the Site. Slug testing included MW-7, MW-8, MW-9, MW-11, MW13, MW14, MW16, MW17, MW19, MW20, MW22, and MW23.

A falling-head test is conducted by rapidly raising the water level 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 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. It should be noted that the pumps only operate when the water level in the respective well is at the level of the pump intake. When the pumps are activated, they pump at a rate of approximately 2 gpm as determined by the hydraulic testing. The intake for the pumps in the wells are set at approximately 618 feet above mean sea level (amsl), which corresponds to the elevation of the lowest seep on the bank of the Columbia River (Figure 2). As such, the pumps achieve the goal of maintaining water levels at target depths and thereby reducing migration of free product to the river.

2.6 Previous Groundwater Monitoring

Farallon collected reconnaissance groundwater samples from push-probe borings FB-9 and FB-10 on April 7, 2017. Results of these samples indicated that GRPH, DRPH, and benzene exceeded their respective MTCA Method A cleanup level. The concentration of oil range petroleum hydrocarbons (ORPH) exceeded the MTCA Method A cleanup level in the sample collected from FB-9. The lab reported that the sample collected from FB-10 had no detection of ORPH but the laboratory method reporting limit (MRL) used in the analysis exceeded the MTCA Method A cleanup level.

Monitoring wells MW-1, MW-2, MW-4, and MW-5 were sampled on March 23, 2017 prior to the installation of new monitoring wells at the Site in April 2017. The samples were analyzed for DRPH and ORPH only. There was no detection of DRPH or ORPH in the samples collected from MW-2, MW-4, or MW-5. The sample collected from MW-1 had a concentration of DRPH slightly above the MTCA Method A cleanup level and ORPH slightly below the MTCA Method A cleanup level.

A Site-wide groundwater monitoring and sampling event occurred on April 20 and 21, 2017 after the installation of wells MW-6 through MW-11, BH-1 through BH-3, and RW-1. Groundwater samples were not collected from monitoring wells MW-8 and MW-9 due to the presence of LNAPL at these locations. Monitoring well MW-2 was not sampled due to historic results of no detection of any contaminant above the respective MRLs.

Another Site-wide groundwater monitoring and sampling occurred on September 28 and 29, 2017. Groundwater samples were not collected from monitoring wells BH-1 and BH-2 due to lack of water in these wells. DRPH, ORPH, GRPH, and/or benzene were detected at concentrations exceeding their respective MTCA Method A cleanup levels in monitoring wells BH-1 through BH-3, MW-1, and MW-6 through MW-11 and in recovery well RW-1 during the April and/or September groundwater sampling events.

HydroCon performed a groundwater monitoring and sampling event in April 2018 after additional wells (MW12 through MW23 and MW01S and MW03S) were installed during the SRI. Groundwater samples were collected from monitoring wells MW01S, MW-2, MW03S, MW-4 through MW14, MW16, MW17, MW19 through MW23, BH-1, BH-2, BH-3, and RW-1. Groundwater samples were not collected from MW15 and MW18 due to a lack of water. Groundwater samples were not collected from MW-1 and MW-3 due to improper well construction.

In August 2018, HydroCon installed monitoring wells MW24 through MW32 to facilitate interim remedial actions and to fill data gaps for the SRI (HydroCon 2018d). This report includes the fourth sampling results for these wells.

The construction details for all wells, including well depth, screened intervals, screen diameters, are summarized on Table 1.

2.7 Monitoring Well Identification

HydroCon utilizes a well and boring identification convention that differentiates wells and boring installed by HydroCon verses installations by others. Well and borings installed by others include a hyphen in the identification (e.g., MW-11, BH-1) whereas those installed by HydroCon do not include a hyphen (e.g., MW12, HC01).

3.0 FIELD WORK

This section describes the sampling procedures, analytical methods, groundwater conditions, and laboratory results for wells sampled or monitored in August 2019. A data quality review is included.

3.1 Groundwater Sampling Procedures

The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to non-pumping conditions prior to sampling and water level monitoring. The depth to water and product thickness were measured in all the Site wells on August 29, 2019 (Table 2). HydroCon used this data set to calculate groundwater elevations and prepare the groundwater elevation contour plot (Figure 3).

Prior to collection of depth to water measurements, the well cap on each well was removed and the water level was allowed to equilibrate. The depth to water in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north side of the top of the polyvinyl chloride casing) at each well.

HydroCon collected groundwater samples on August 26 through August 28 from 27 site monitoring and recovery wells (Tables 2 and 3). The following wells shown on Table 2 were not sampled for the following reasons:

- FB-9 and FB-10 are reconnaissance groundwater samples. Monitoring wells were not installed in these direct-push boreholes.
- HydroCon did not collect groundwater samples from MW-1, MW-2, MW-3, MW-4, MW-5, MW-7 and MW22. HydroCon petitioned Ecology to cease sampling in these wells due to improper well construction, no detection of chemicals of concern (COCs) in the well, monitoring well MW-7 being so close to MW-23, and MW22 being located outside of the plume that originates at the Coleman Oil Site. This request was approved by Ecology[1].
- MW15, MW18, and MW19 were not sampled due to insufficient water in the wells.
- MW29 had 0.12 feet of product and was not sampled.

Three field duplicate samples (MW100, MW101, and MW102) were collected from MW-6, MW17, and BH01R, respectively for quality assurance/quality control (QA/QC) purposes.

Prior to groundwater sampling, monitoring wells were purged with a low-flow peristaltic pump or bladder pump equipped with a new length of low-density polyethylene tubing attached to a new length of silicone tubing in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling[2]. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each well. During purging, water quality was monitored using a Quanta Multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters

[1] Washington State Department of Ecology. *Comments on Supplemental Remedial Investigation Report*. August 16, 2018.

[2] *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (April 1996).* EPA/540/S-95/504

monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each well was purged until all six water quality parameters stabilized or the minimum parameter subset of pH, specific conductance, temperature, and turbidity and/or dissolved oxygen stabilized. *Groundwater Sample Collection Forms* and *Daily Field Reports* are included as Appendix A.

It should be noted that HydroCon collected additional groundwater data during this groundwater sampling event to establish a baseline for monitored natural attenuation (MNA) parameters in the site wells including ferrous iron. HydroCon used Hach Kits to measure the ferrous iron content in the wells. This measurement was performed during sample collection and recorded on the Groundwater Sample Collection Forms (Appendix A).

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported under chain-of-custody to APEX laboratory of Tigard, Oregon, for laboratory analysis. Some of the MNA parameters (nitrate, sulfate, and alkalinity) were analyzed by Cascade Analytical Laboratory in Yakima due to short holding times.

Purge water generated during the monitoring event was collected in 5 gallon pales and transferred to the onsite treatment system for treatment and discharge to the City sanitary system.

3.2 Laboratory Analysis

The analytical protocols for the samples collected at the Property include the required testing for petroleum releases for gasoline (Table 830-1 in the MTCA Cleanup Regulations Chapter 173-340 WAC). The analytical methods include:

- GRPH using Northwest Method NWTPH-Gx
- DRPH and ORPH using Northwest Method NWTPH-Dx
- BTEX using EPA Method 8260C
- Alkalinity by Method SM2320B
- Total Manganese by EPA Method 200.8
- Nitrate and Sulfate by EPA Method 300.0
- Dissolved Methane by Method RSK 175

4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Conditions

HydroCon measured water levels at 30 wells on August 29, 2019, the day after the groundwater sampling had been completed at the site. The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to static (non pumping) conditions. The depth to water measurements for August 29, 2019 and calculated groundwater elevations at each well are summarized on Table 2. It should be noted that monitoring wells MW15 and MW18 were dry, the pump in MW10R prevented collection of the water level in the well, and MW22 was not measured so no groundwater elevations for those wells could be calculated. The remediation system was restarted before noon on August 29 after the groundwater level measurements were completed.

On August 29, 2019 the depth to water at the Site ranged from 7.53 feet bgs (MW-3) to 38.00 feet bgs (MW-5) and groundwater elevations ranged from 617.78 (MW30) to 650.73 (MW-3) feet amsl. A groundwater elevation contour plot was prepared from this data set (Figure 3). Groundwater flow across the Site was generally to the northeast with a more easterly flow in the southern portion of the Site. The groundwater gradient between MW13R, near the middle of the property, and MW22 was 0.065 ft/ft. The gradient in the southern portion of the Site between MW-2 and MW-5 is much steeper at 0.42 ft/ft.

Vertical gradients were calculated for well pairs MW-1/MW01S and MW-3/MW03S located in the southern portion of the Site. These well pairs are located within 10 horizontal feet of each other. The vertical hydraulic gradient within an aquifer (or between two aquifers separated by an aquitard) is calculated by dividing the difference in hydraulic head (or water level elevation) by the vertical (elevation) distance between the well screen midpoints. Table 6 provides the parameters and calculations for the vertical gradients of the well pairs.

The groundwater elevations for each well pair are very similar with slightly higher elevations for the deeper wells (MW-1 and MW-3) indicating a very slight upward vertical gradient. The calculated vertical gradient for MW-1/MW01S was 0.086 ft/ft and the vertical gradient for MW-3/MW03S was 0.017 ft/ft for the August 29, 2019 measurement.

These very small vertical gradients indicate that vertical gradients do not play a significant role in contaminant distribution or transport, at least in the southern portion of the Site. The vertical gradients for MW-1/MW01S were nearly identical to the three previous groundwater monitoring measurements.

4.2 Groundwater Sampling Results

Laboratory analytical results are reported as micrograms per liter (µg/L) or parts per billion. The results are provided on Table 3 and laboratory reports are included as Appendix B. A summary of the results for each constituent sampled is provided below.

Gasoline Range Petroleum Hydrocarbons

GRPH was detected above the laboratory's method reporting limit (MRL) in 14 wells including MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW28, BH01R, BH-2, and BH-3. The GRPH concentration ranged up to 3,510 µg/L with the highest concentration at MW14. The MTCA Method A cleanup level for GRPH is 800 µg/L and was exceeded in the samples collected from MW-8, MW09R, MW10R, MW-11, MW13R, and MW14. A significant reduction in the GRPH concentration is seen in the sample collected from MW-13R compared to the previous groundwater monitoring event. This is attributed to the remedial excavation performed in June 2019 near the former Control Valve Building and former Tank Farm B.

Diesel Range Petroleum Hydrocarbons

DRPH was detected above the MRL in 26 wells with concentrations ranging up to 6,730 µg/L. The highest DRPH concentration was detected at MW17. The only wells that did not have a detection of DRPH above the MRL were MW12 and MW31. The MTCA Method A cleanup level for DRPH of 500 µg/L was exceeded in the samples collected from MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, and MW30. It should be noted that 0.12 feet of product was measured in MW29 and no sample was collected from that well.

Oil Range Petroleum Hydrocarbons

ORPH was not detected above the MRL in any of the samples. It should be noted that the MRL in the MW10R sample (1,510 ug/L) exceeds the MTCA Method A cleanup level of 500 µg/L. Therefore it is unknown if the results comply with the cleanup standard.

Benzene

Benzene was detected above the MRL in 5 wells including MW-8, MW13R, MW14, MW17, and BH01R at concentrations ranging up to 96.4 µg/L. The highest concentration was seen in MW13R. The MTCA Method A cleanup level for benzene (5 µg/L) was exceeded in the samples collected from MW13R and MW14.

Toluene

Toluene was not detected above the MRL in any of the samples.

Ethylbenzene

Ethylbenzene was detected in 4 wells above the MRL including MW-8, MW10R, MW13R, and MW14 at concentrations up to 8.52 µg/L. None of the concentrations exceed the MTCA Method A cleanup level of 700 µg/L.

Total Xylenes

Total xylenes were detected above the MRL in the samples collected from 3 wells including MW-8, MW10R, and MW13R at a concentration up to 28.5 µg/L. None of the concentrations exceed the MTCA Method A cleanup level of 1,000 µg/L.

Polynuclear Aromatic Hydrocarbons

Polynuclear Aromatic Hydrocarbons (PAHs) were not analyzed in any of the wells during this sampling event. Historical results are provided in Table 4.

4.3 Monitored Natural Attenuation Parameters

The August 2019 groundwater sampling event included analysis of geochemical parameters used in monitored natural attenuation (MNA) at petroleum contaminated sites. This sampling event was done to establish a baseline from which to assess if natural attenuation is occurring at the site. The use of MNA will be considered as a method to use to monitor post-remediation groundwater quality at the site. In general, a plume of petroleum hydrocarbons that is undergoing natural attenuation should have decreasing amounts of dissolved oxygen, nitrate, sulfate, and redox potential and an increase in ferrous iron, methane, manganese, and alkalinity[3].

Laboratory analytical results are summarized on Table 5 and the laboratory reports are included as Appendix B. A summary of each MNA parameter is provided below.

4.3.1 Field Parameters

Dissolved Oxygen – The dissolved oxygen content in the samples collected from the site ranged from 0.18 to 2.77 mg/L. These low values indicate that groundwater at the site has a low oxygen content[4].

Redox Potential – Redox potential is a measure with which a molecule will accept electrons. It is measured in millivolts (mV). The more positive the redox potential, the more readily a molecule can be reduced. The redox potential in the samples collected from the site ranged from -196 mV to 128.4 mV. A total of 19 samples had a negative reading, 6 had a positive reading, and 1 had a reading of 0 mV.

pH – pH is a measure of the acidity or alkalinity of a solution. The pH scale ranges from 0 to 14. A pH less than 7 is considered to be acidic. A pH greater than 7 is considered to be basic or alkaline. The pH in the samples collected at the site ranged from 5.97 to 7.43.

4.3.2 Chemical Analysis

Nitrate – Nitrate was detected above the MRL in only three wells (MW01S, MW16, and MW32) ranging from 0.35 to 2.0 mg/L. Nitrate concentrations below background in areas with dissolved contamination provide evidence for biodegradation[4].

Sulfate – Sulfate was detected above the MRL in each well except MW-8, MW-11, and MW-4 at concentrations ranging from 0.18 to 78.4 mg/L. Sulfate concentrations less than background in areas with dissolved contamination provide evidence for biodegradation[4].

Manganese – Manganese was detected in each well ranging from 52.8 to an estimated 10,700 mg/L.

Alkalinity – Alkalinity ranged from 148 to 619 mg/L in the samples collected from the site.

Methane – Methane was detected in the samples collected from every well except MW-16. Detections ranged from 3.1 µg/L to 8,100 µg/L.

[3] *User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater,* Toxics Cleanup Program Publication No. 05-09-091. July Ecology, July 2005.

[4] *User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater,* Toxics Cleanup Program Publication No. 05-09-091A. July Ecology, July 2005.

Ferrous Iron – Ferrous iron ranged from 0.0 to 6.5 mg/L in the samples collected from the site.

While future testing of these parameters is needed to adequately evaluate the presence and progress of natural attenuation, there are preliminary indications that biodegradation is active at the Site.

4.4 Data Quality Review

Laboratory testing of groundwater are included in Appendix B as APEX Work Orders A9C1035. The *Data Quality Review Report* is included in Appendix C. 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 by the laboratory due to matrix interference, compound identification issues, limited sample volume and/or LCS/CCV recoveries. These qualifiers resulted in validation qualifiers of estimated quantity (J) and estimated and not detected (UJ). No data were rejected and completeness was 100 percent.

All results are usable for their intended purpose. Data qualifications are identified in detail in full *Data Validation Report* included in Appendix C.

5.0 DISCUSSION

This section provides a discussion of the August 2019 groundwater monitoring event.

5.1 Discussion of Laboratory Results

Results of the August 2019 groundwater monitoring event indicated that 17 of the 27 wells sampled at the Site (MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, MW30, BH01R, BH-2, and BH-3) have one or more COC above their respective CUL. This is a decrease of 2 wells compared to the results of the March 2019 groundwater monitoring results. However, it should be noted that monitoring wells MW15, MW18, and MW19 were dry or had an insufficient amount of water to sample and MW29 had product so no samples were collected to assess water quality in these wells. Trend plots were not prepared for the wells not sampled.

5.2 Trends in GRPH and DRPH Concentrations in Groundwater

HydroCon has prepared trend plots of GRPH and DRPH the 27 wells sampled (Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h). A discussion of groundwater trends of each these wells are provided below.

BH-1/BH01R – DRPH: A significant increase began in December 2018 through March 2019 followed by significant decrease in August 2019. GRPH: Minor fluctuation in this well with no apparent trend. Pumping began in this well in May 2018.

BH-2 – DRPH appears to be fluctuating with no apparent trend. A general decreasing trend in GRPH is observed in this well.

BH-3 – DRPH: The concentration decreased in this well through August 2018. Thereafter, an increasing trend was observed through March 2019 followed by a downward trend over the last two sampling events. GRPH: The concentration decreased significantly from its high in April 2017 to 9/2017. A nearly flat trend has been observed since.

RW-1 – DRPH: A general decreasing trend has occurred from its high in April 2017 with an upward fluctuation in August 2018 (all below the CUL). GRPH: There's been no detection above the MRL since sampling began.

MW01S – DRPH & GRPH: The concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW03S – –Concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below their respective CUL since sampling began

MW-6 - DRPH: The concentrations fluctuate with an increasing trend since March 2019. GRPH: A decreasing trend with concentrations below the CUL.

MW-8 – DRHP: A decreasing trend from September 2017 through November 2018 with a spike over 2,000 µg/L in March 2019 then down to less than 1,500 µg/L in August 2019. GRPH: trending down to a concentration (899 µg/L) slightly above the CUL in August 2019.

MW-9/MW09R –DRPH: The concentration has fluctuated with an increasing trend since August 2018. GRPH fluctuated in 2018 but has stabilized around 1,000 µg/L, slightly above the CUL. Pumping

began in this well in May 2018.

MW-10/MW10R – DRPH: The concentration fluctuated in this well until pumping began in May 2018. A relatively flat with slightly increasing trend has been observed since at concentrations above the CUL. GRPH: The concentration has been relatively flat in this well at concentrations above the CUL. Pumping began in this well in May 2018.

MW-11 –DRPH: The concentration decreased in this well from September 2017 with a slight increasing trend after August 2018. GRPH fluctuates within a narrow range of concentrations that exceed the CUL.

MW12 – DRPH: The concentrations have fluctuated between non-detect to low concentrations below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW13/MW13R – DRPH: A slightly increasing trend in DRPH concentrations was observed in this well through March 2019 and then a decreasing trend afterwards. GRPH: High concentrations have been observed in this well since sampling began with a significant decrease after the remedial excavation.

MW14 – DRPH: A slight increasing trend has been seen in this well with concentrations above the CUL. GRPH: Fluctuating high concentrations above the CUL are seen in this well.

MW16 – DRPH: Low concentrations below the CUL fluctuate in this well. GRPH: There's been no detection above the MRL since sampling began.

MW17 –DRPH: An increasing trend above the CUL has been seen since August 2018. GRPH: A decreasing trend has been observed with the August 2019 concentration below the CUL.

MW20 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW21 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW23 – DRPH fluctuates within a narrow range. The concentration is currently slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW24 – DRPH: A decreasing trend since a high was recorded in November 2018. The concentration remains above the CUL. GRPH: The concentration has fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW25 – DRPH: Low concentrations below the CUL have trended higher with a slight decrease in August 2019. GRPH: There's been no detection above the MRL since sampling began.

MW26 – DRPH: Low concentrations have fluctuated in this well with the current concentration below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW27 – DRPH: An increasing trend of low concentrations below the CUL has been observed since November 2018. GRPH: There's been no detection above the MRL since sampling began.

MW28 – DRPH: An increasing trend in concentrations until March 2018 followed by a decreasing trend. The current concentration is above the CUL. GRPH: Low concentrations below the CUL

have remained relatively flat since November 2018.

MW30 – DRPH: An increasing trend was observed until March 2019 followed by a slight decrease. The current concentration is slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW31 – DRPH and GRPH have not been detected above the MRL since sampling began.

MW32 –DRPH: Low concentrations below the CUL have increased since November 2018. GRPH has decreased to concentrations below the MRL since August 2018.

Trends in groundwater sampling at the Site wells can also be summarized as shown on Table 7. The table lists all 41 Site wells with the number of CUL exceedances for GPPH and DRPH in the last 4 sampling events. For wells with CUL exceedances in the last 4 sampling events, the percent change in concentration since the last quarter is shown. Wells that were not sampled in this last sampling event as indicated as no sample (NS).

For DRPH, 11 of the wells were not sampled, 18 had at least one CUL exceedance in the last 4 quarters, 7 of which had an increase in concentration since the last sampling event and 11 had a decrease. The increase in concentration ranged from 3 to 98 percent (MW19) and decrease in concentration ranged from 10 to 612 percent (BR01R). The average change in DRPH concentration in the last two sampling events for these wells was a decrease of 66 percent.

For GRPH, 11 of the wells were not sampled, 10 had at least one CUL exceedance in the last 4 sampling events, 4 of which had an increase in concentration since the last sampling event and 6 had a decrease. The increase in concentration ranged from 7 to 307 percent (MW20) and decrease in concentration ranged from 15 to 2,850 percent (MW13/MW13R). The average change in GRPH concentration in the last two sampling events for these wells was a decrease of 275 percent.

5.3 Extent of Groundwater Contamination

The August 2019 groundwater results for GRPH and DRPH are plotted on Figures 5 and 6 and iso-concentration contours were prepared to illustrate the magnitude and extent of each contaminant at the Site. Red colored shading was used to graphically display the plume boundary. Areas of higher concentration are shaded in darker red. The seep area (soil samples SL01 through SL04) are included on the figures since the seep water is in contact with impacted soil and shows the location of this area relative to areas of impacted groundwater.

5.3.1 Diesel Range Petroleum Hydrocarbons

The extent of DRPH contamination in groundwater is illustrated on Figure 5. A plume of DRPH impacted groundwater with DRPH levels greater than the 500 µg/L CUL is present at the site from south of MW13R and extends northeast slightly beyond monitoring well MW21. There are four areas within the plume that have had consistent elevated DRPH concentrations above 2,000 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of DRPH (2,180 µg/L) occurred in MW13R which is located within the footprint of the former Tank Farm B and the former Control Valve Building.
- The area encompassing monitoring wells MW17, MW09R to BH-2. The concentration of

DRPH ranges from 5,880 to 6,730 µg/L. Each of these three wells is currently being used to extract product and groundwater from the Site.

- The area of monitoring wells MW19, BH01R, MW28 and MW29. The highest DRPH concentration (4,300 µg/L) occurred in MW19 and monitoring well MW29 had 0.12 feet of LNAPL during the August 2019 groundwater monitoring.
- The area near well MW10R. MW10R had a DRPH concentration of 3,620 µg/L. Monitoring wells MW21 and MW24 have DRPH levels above the CUL. Wells MW10R and MW24 are being used to extract product and groundwater from the Site.

Groundwater with DRPH levels greater than the 500 µg/L CUL was also present in August 2019 at monitoring wells MW-6, MW-8 and MW-11 and BH-3.

Areas with DRPH concentrations less than 500 µg/L (Method A cleanup level) include the area of the Coleman property south of Tank Farm A, much of the eastern part of the Coleman Property and adjacent Worthen Street, the northwest portion of Chehalis Street, and the line of wells east of Worthen Street including and between MW25 and RW-1, except BH-3. This latter area is near the observed seep areas and reinforces the role of preferential pathways in the distribution of subsurface contaminants.

5.3.2 Gasoline Range Petroleum Hydrocarbons

The extent of GRPH contamination in groundwater is illustrated on Figure 6. A plume of GRPH impacted groundwater is present from the Coleman Oil facility from south of MW13R and extends northwest towards monitoring well MW21. There are six localized areas within the plume that have elevated GRPH concentrations above the MTCA Method A CUL of 800 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of GRPH (3,510 µg/L) is present in MW14 which is located immediately downgradient of the footprint of former Tank Farm B and former Control Valve Building. A significant reduction in GRPH concentration in this area of the site is present compared to the previous quarter and is attributed to the remedial excavation that occurred in June 2019.
- The area near monitoring wells MW-11 and MW-8 have GRPH ranging from 899 to 1,230 µg/L. This area is located within the 2017 remedial excavation area where sump #5 was located. Sump #5 had one of the highest amounts of recovered product at the Site.
- The area near monitoring wells MW17 and MW09R have GRPH concentrations ranging from 655 to 1,080 µg/L. Monitoring well MW09R is currently being used to extract product and contaminated groundwater from the Site.
- The area near BH01R has slightly elevated GRPH concentrations (518 ug/L). Although no sample was collected from MW29 due to the presence of LNAPL in the well, it is presumed that elevated GRPH concentration is present at this location. Both of these wells are used to extract product and contaminated groundwater from the Site.
- The area near monitoring well MW10R has an elevated GRPH concentration (1,270 µg/L). This well is used to extract product and contaminated groundwater from the Site. Well MW21 farther to the north has an elevated GRPH concentration of 453 µg/L that does not exceed the CUL.

- Monitoring well BH-3 has a GRPH concentration (816 µg/L) that slightly exceeds the MTCA Method A cleanup level. This well is located upgradient of the seeps. This reinforces the role of preferential pathways in the distribution of subsurface contaminants, as stated above.

The overall distribution of GRPH in groundwater is similar to the DRPH distribution and areas with concentrations less than 800 µg/L (Method A cleanup level) are very similar to areas below the DRPH cleanup level.

6.0 FUTURE MONITORING SCHEDULE

6.1 Daily Columbia River Level and Water Level Measurements

Environmental Engineering & Consulting, Inc. (EEC) manages the containment booms on the Columbia River and recovery of groundwater and product from the current nine recovery wells at the Site, treatment of the recovered groundwater and discharge of the treated water to the City of Wenatchee sewer. EEC's daily tasks includes monitoring the water level at a surveyed reference location along the Columbia River and water and product levels in the nine recovery wells at the Site (MW09R, MW10R, BH01R, MW17, MW24, MW28, MW29, MW30, and MW32) using a clean electronic oil/water interface probe.

These measurements are recorded in spreadsheet files and are provided to Ecology, Coleman Oil, and HydroCon monthly or every 2 weeks (bi-weekly). HydroCon will include these measurements in the Annual Operations and Maintenance (O&M) Monitoring Reports.

6.2 Weekly to Monthly Water Level and Product Thickness Measurements

EEC assists HydroCon with the collection of depth to water and product level measurements of all the Site wells on a bi-weekly to monthly basis following the same protocol as the daily water and product level measurement task. EEC utilizes a Well Product Monitoring & Recovery spreadsheet to record these data (Appendix D). This form is provided to HydroCon so that the data can be entered into spreadsheets (i.e., Table 2). This information also is used to assess seasonal groundwater flow direction patterns and if there is correlation between groundwater levels in the aquifer and the Columbia River stage.

6.3 Future Groundwater Sampling

The next groundwater monitoring event is tentatively planned for March 2020. A list of wells that will be sampled and associated laboratory analysis is provided on Table 8.

As discussed above, Ecology agreed with HydroCon that collection of groundwater samples from monitoring wells MW-1 through MW-5, MW-7, and MW22 was not necessary during the August 2019 sampling event. These wells will not be included in future groundwater monitoring events unless requested by Ecology.

Ecology also requested vertical gradient data from MW-1/MW01S and MW-3/MW03S and asked that water levels be measured in these well clusters at least two times so that vertical gradient data can be verified. HydroCon has included the vertical gradient data from the last three groundwater monitoring events. This information is provided in Section 4.1 of this report. Unless requested by Ecology, HydroCon will no longer include vertical gradient data from these wells in future monitoring reports.

7.0 QUALIFICATIONS

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

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

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

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

8.0 REFERENCES

Farallon, 2017. *Supplemental Data Summary Report*. Prepared for Coleman Oil Company. October 18.

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.

———. 2018c. *Aquifer Testing at Coleman Oil Facility, Wenatchee, Washington*, March 16.

———. 2018d. *Quarterly Groundwater Monitoring Report – August 2018, November 12*.

———. 2019a. *Quarterly Groundwater Monitoring Report – November 2018, January 8*.

———. 2019b. *Additional Interim Actions Addendum #2 Report* – January 10.

———. 2019c. *SRI Addendum – Uplands Soil Characterization Report* – March 6.

———. 2019d. *SRI Addendum – Sediment Characterization Report* – May 22.

———. 2019e. *Quarterly Groundwater Monitoring Report – March 2019, May 28*.

———. 2019f. *Additional Interim Actions Addendum #3 – Remedial Excavation Report* – July 25.

FIGURES

TABLES

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FORMS

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

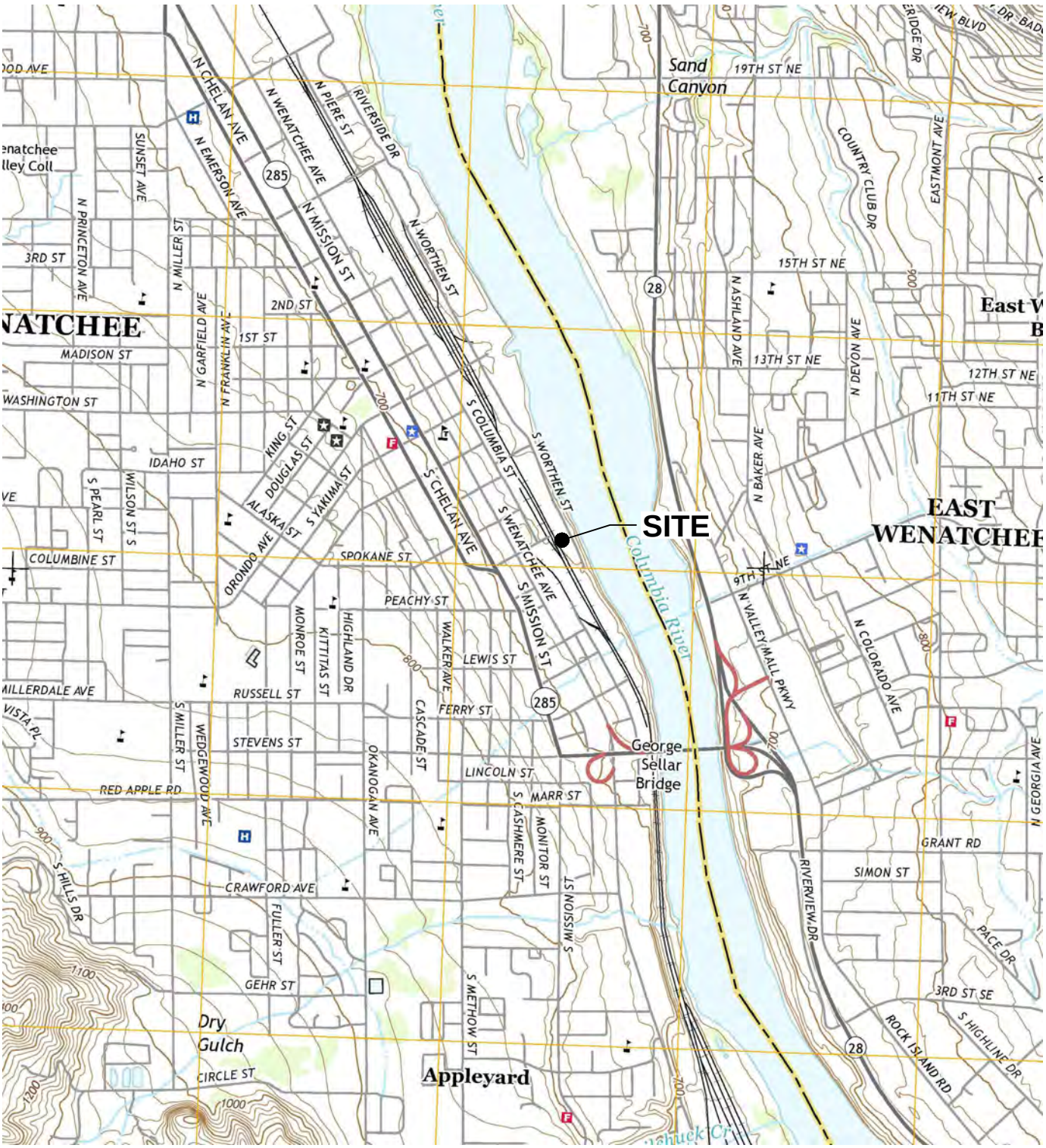
APPENDIX C

DATA QUALITY REVIEW REPORT

APPENDIX D

WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM

FIGURES



NOTE(S):

USGS, WENATCHEE QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

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1" = 2000'

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S

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

DATE: 10-18-18
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 1
SITE LOCATION MAP

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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LEGEND

- Road
- Railroad
- Former Dry Well
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- FB-3 — Boring Locations
- SUMP#6 — Sump
- Containment Booms
- TP01 — Test Pit Locations
- Sediment Sample Locations
- Attempted Sediment Sample Location

MW22
Up river north area
667.5 ft²
1%=961 inches²
(~24"x40")
MW21
Upriver Primary
Containment Boom
Up river south area
682.5 ft²
1%=983 inches²
(~24"x41")
MW24
MW10R
MW25
SS06
SS04
SS01
SS07
SL04
MW26
SS08
SS05
SL03
SS02
SL02
BH-3
SS03
MW27
River Level Gage
SL01
RW-1
Down stream Boom area
679 ft²
1%=978 inches²
(~24"x41")
FB-9
MW20
MW28
BH01R
Downriver Primary
Containment Boom
MW29
MW19
MW30
SL05
BH-2
FB-8
MW31
COLUMBIA RIVER
MW09R
FB-7
FB-3
MW17
MW32
CHEHALIS ST.
MW18
MW-8
MW16
Excavated Areas
SUMP#5
HC02
FB-11
FB-4
MW-11
Former
Storage
Building
FB-5
SUMP#6
FB-10
SUMP#3
East-West
Trench
North-South
Trench
MW15
Former Main Office
and Warehouse
Building
HC12
MW-7
MW14
SUMP#2
MW-6
MW23
Former
Truck
Loading
Rack
East-West
Trench 2
HC01
FB-6
MW-5
TP08
West Trench
SUMP#1
MW-4
TP07
HC10
EPT2
HC08
SUMP#4
MW-2 /FB-2
Former Product Lines
2019 Remedial Excavation
HC11
Former Tank Farm B
Fuel and Oil ASTs
HC09
MW13R
HC07
HC06
UST Access
TP03
TP06
Former Pipe Load/Unload
TP02
TP05
HC05
2013 Remedial
Excavation
TP01
TP04
HC04
MW01S
Control Valve Building
HC03
MW-1/FB-1
Former Above Ground Pumps
MW03S
Tank Farm A
Fuel ASTs
MW-3
Former
Dispenser
Island
Cardlock
Dispenser
Island
S WORTHEN ST.
River Bank
MW12

FIGURE 2
SITE FEATURES

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 10-1-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

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

SCALE IN FEET
1" = 50'
0 50 100

N W E S

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MW22
DRY

MW21
623.29

Upriver Primary
Containment Boom

MW24
617.87

MW10R
618.91

620

MW25
619.55

MW26
630.32

625

BH-3
623.33

MW27
625.11

RW-1
623.62

MW20
625.83

MW28
625.68

630

BH01R
626.39

Downriver Primary
Containment Boom

MW29
621.67

MW19
622.86

MW30
617.78

635

BH-2
625.26

MW31
619.95

COLUMBIA RIVER

640

MW09R
633.74

643.82
MW32

MW17
641.32

645

MW18
DRY

CHEHALIS ST.

MW-8
640.24

MW16
647.04

Excavated Areas

SUMP#5

Former
Storage
Building

SUMP#6

MW-11
643.91

SUMP#3

East-West
Trench

North-South
Trench

MW15
DRY

Former Main Office
and Warehouse
Building

MW14
649.12

SUMP#2

MW-6
646.81

MW-7
645.85

MW23
645.49

Former Truck
Loading Rack

East-West
Trench 2

MW-5
618.00

TP08

West Trench

SUMP#1

TP07

MW-4
641.34

SUMP#4

MW-2
646.11

2019 Remedial Excavation

Former Product Lines

Former Tank Farm B
Fuel and Oil ASTs

Drum Spill Excavation

MW13R
649.43

UST Access

650

Former Pipe Load/Unload

2013 Remedial
Excavation

646.32
MW01S

MW-1

Control Valve Building

Former Above Ground Pumps

MW03S
650.73

Tank Farm A
Fuel ASTs

MW-3

Former
Dispenser
Island

Cardlock
Dispenser
Island

S WORTHEN ST.

650.57
MW12

River Bank

LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- Containment Booms
- 623.33 — Groundwater Surface Elevation
- 630 — Groundwater Elevation Contour
- Approximate Groundwater Flow Direction

FIGURE 3
GROUNDWATER ELEVATION CONTOURS
FOR (AUGUST 29, 2019)
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 10-10-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO:
2017-074

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

SCALE IN FEET
1" = 50'
0 50 100

N W E S

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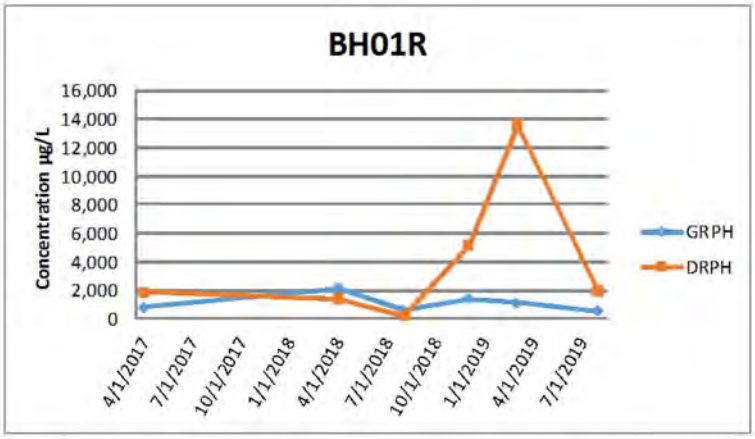

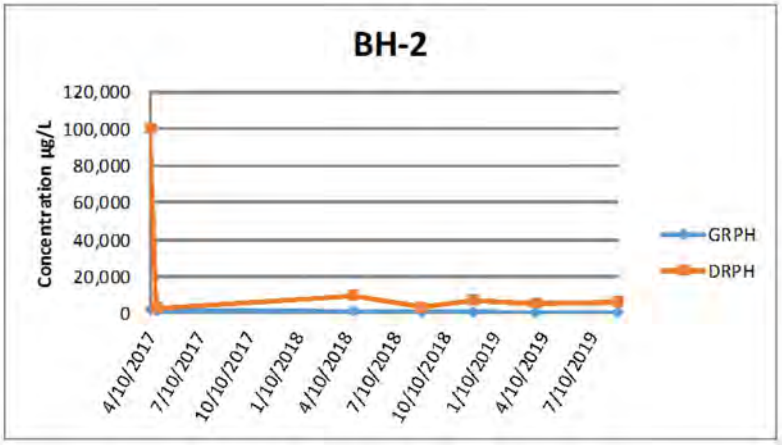

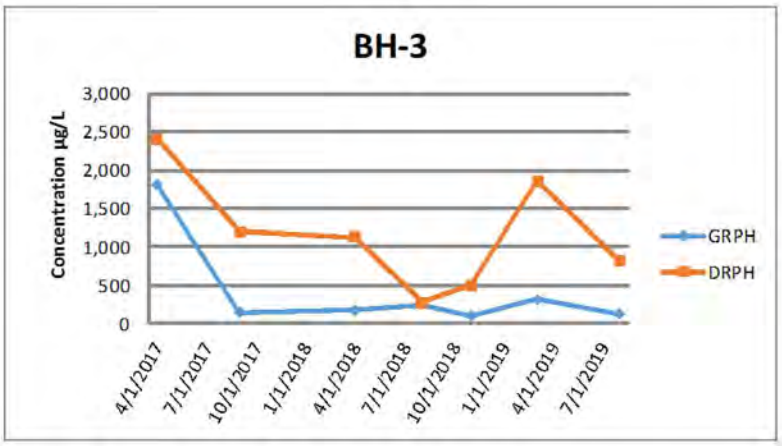

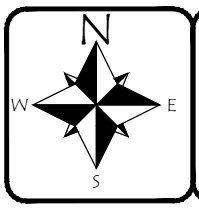

HydroCon

DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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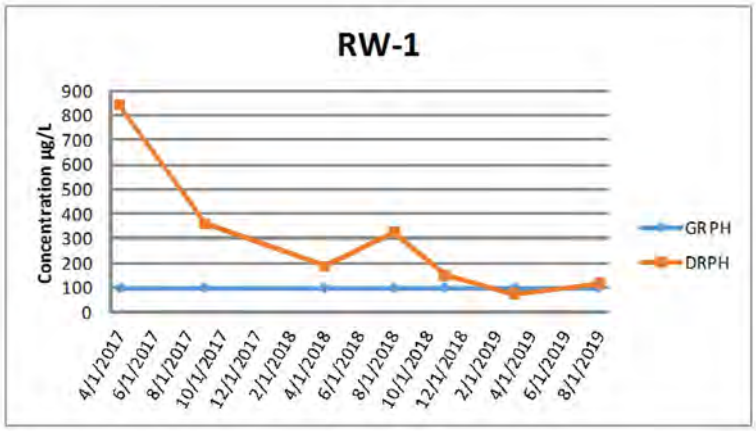

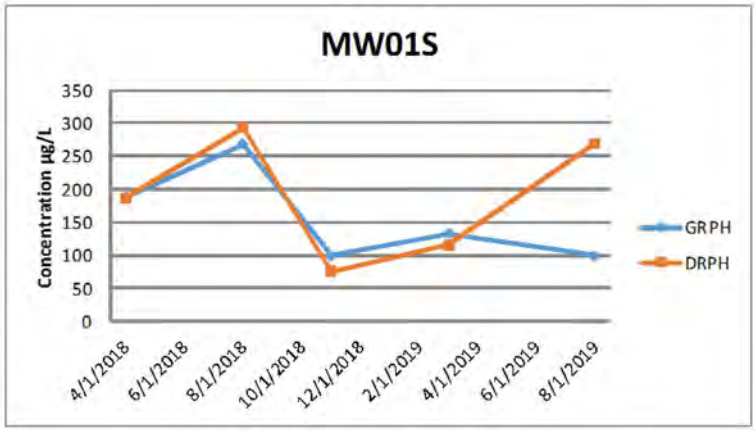

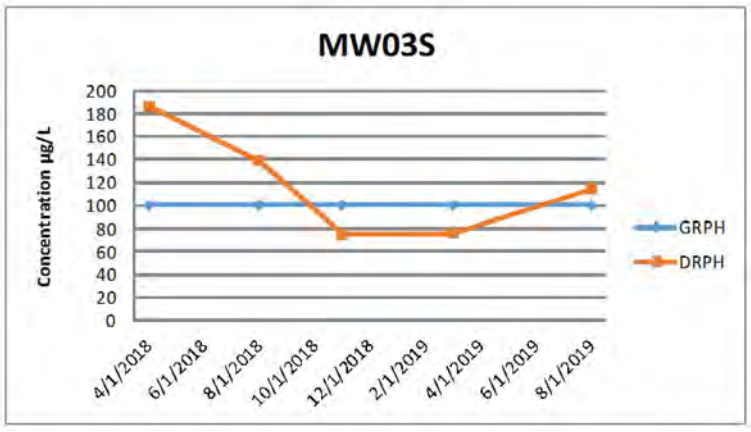

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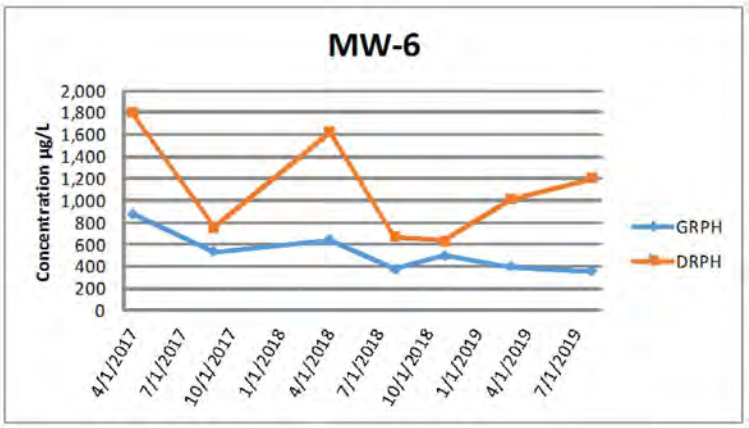
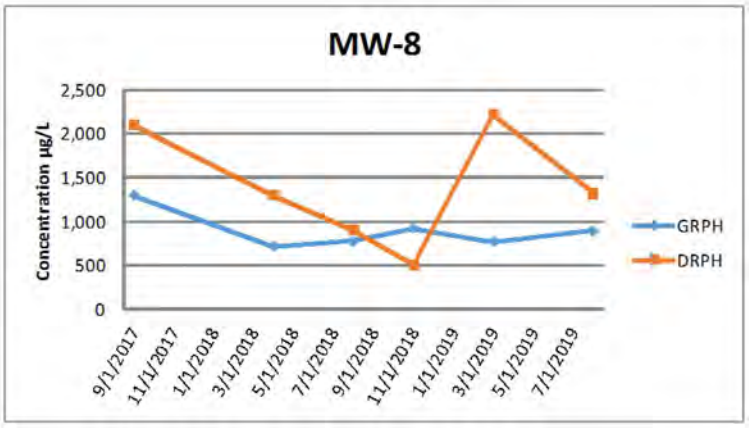
HydroCon

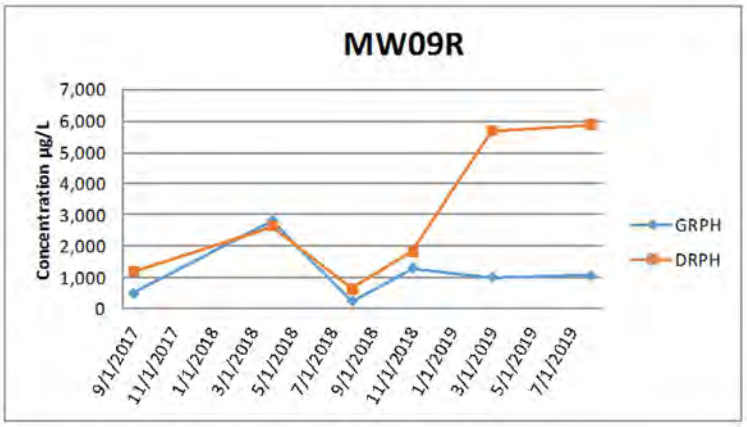
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4A
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







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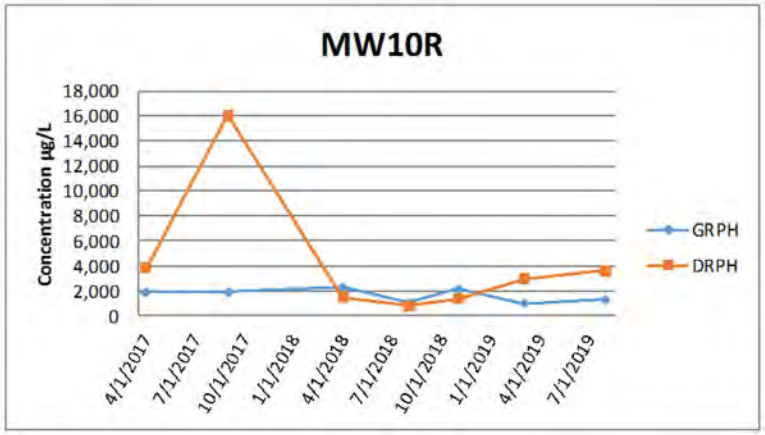
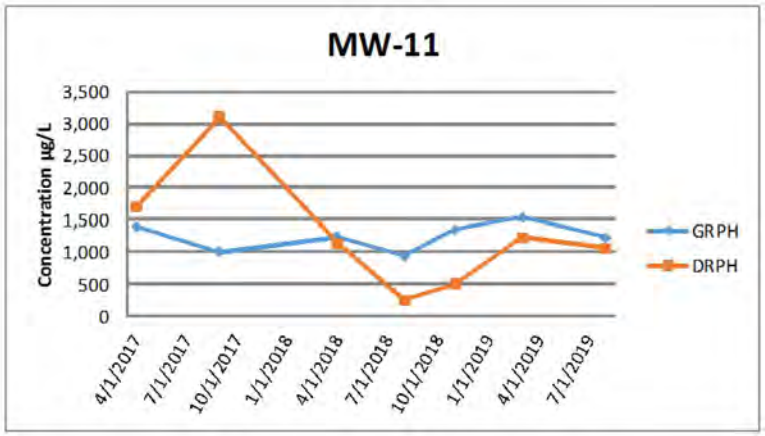
HydroCon

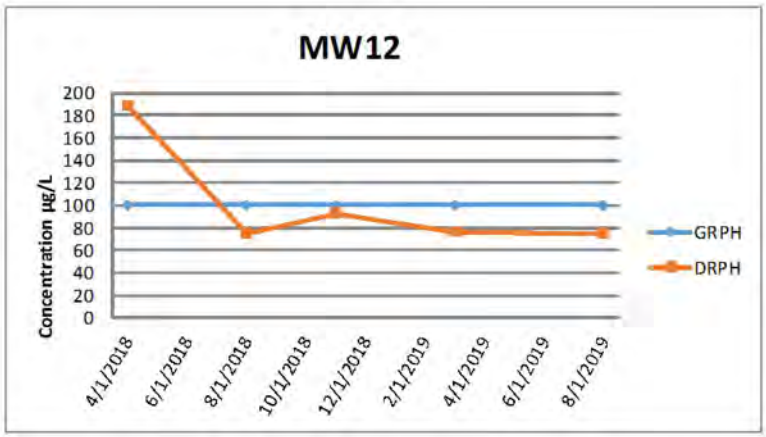
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4B
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







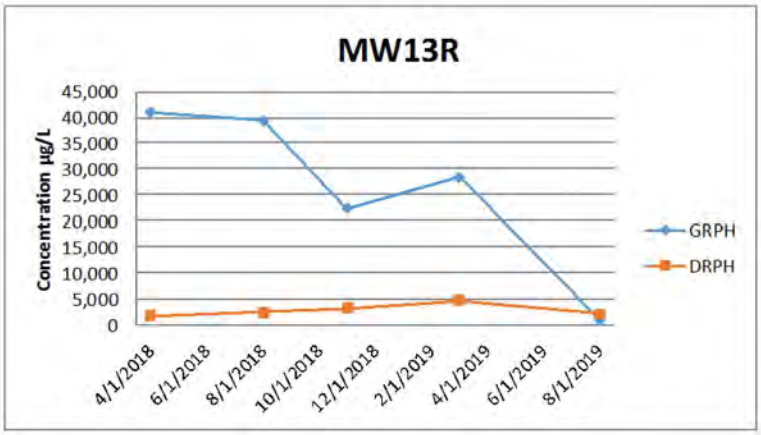
N
W E
S

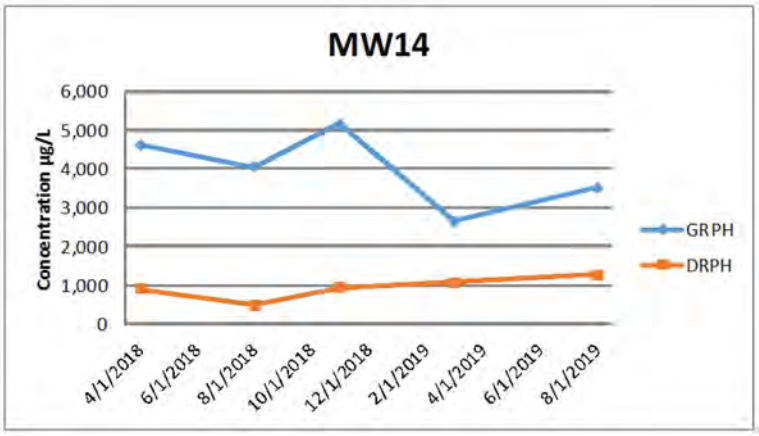
HydroCon

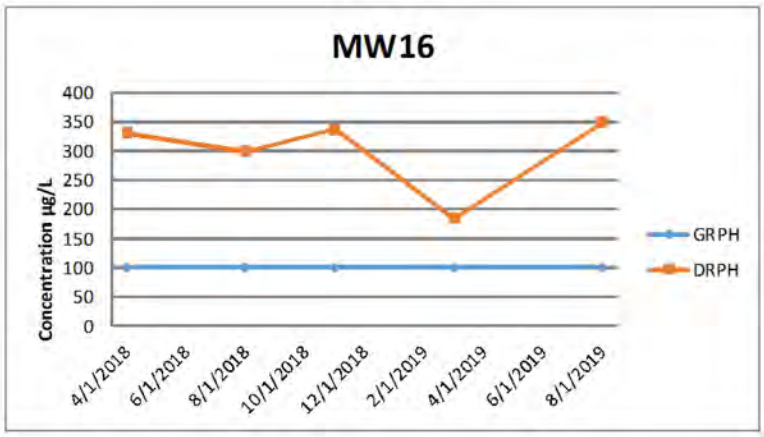
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4C
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







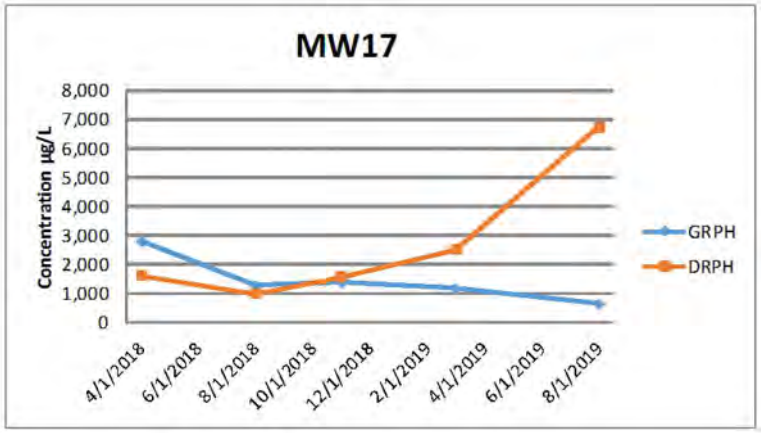
N
W E
S

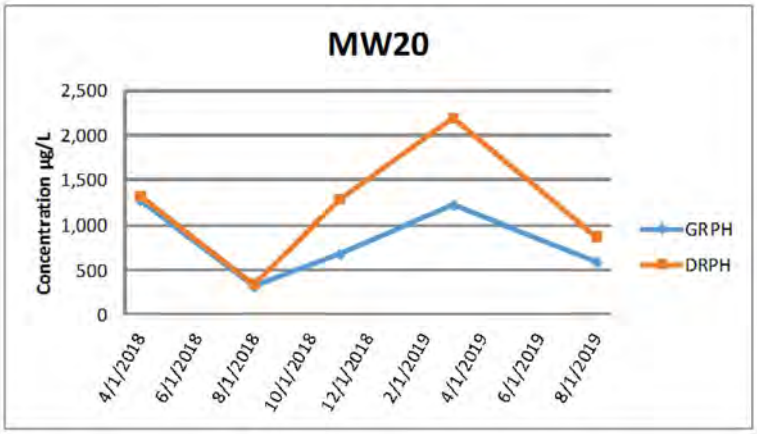
HydroCon

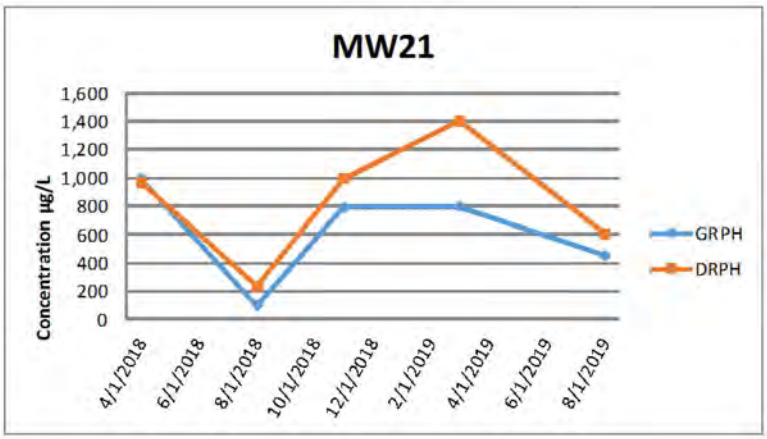
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4D
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







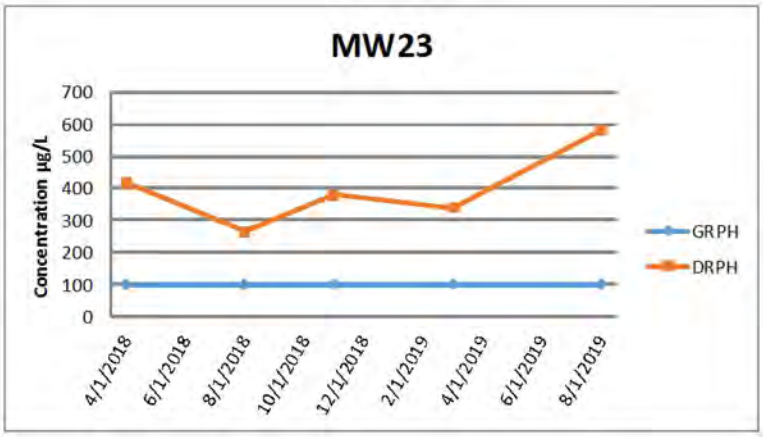
N
W E
S

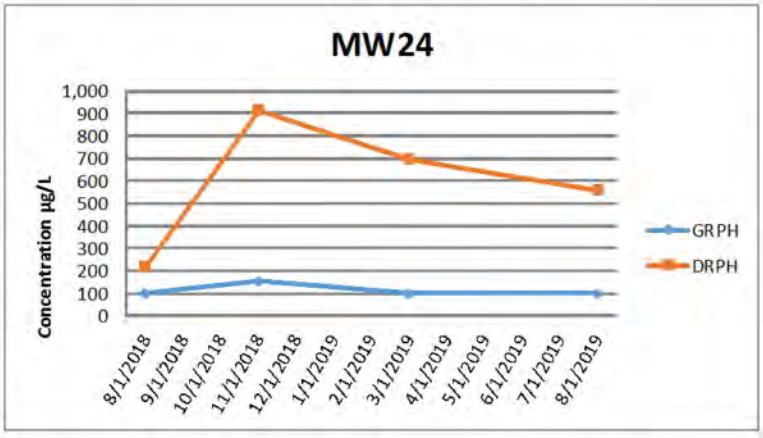
HydroCon

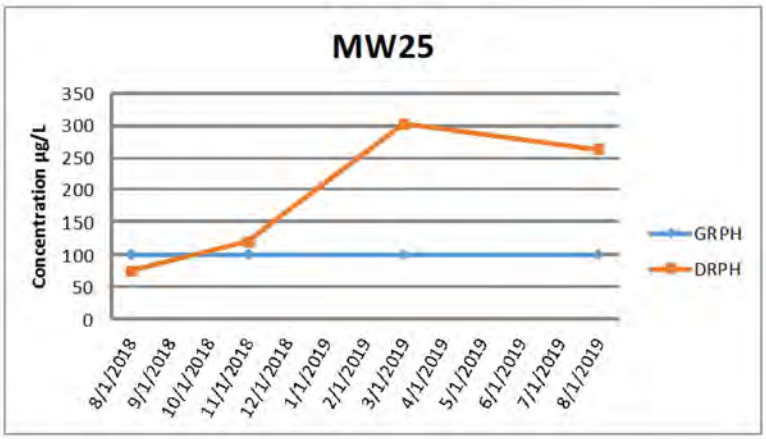
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4E
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







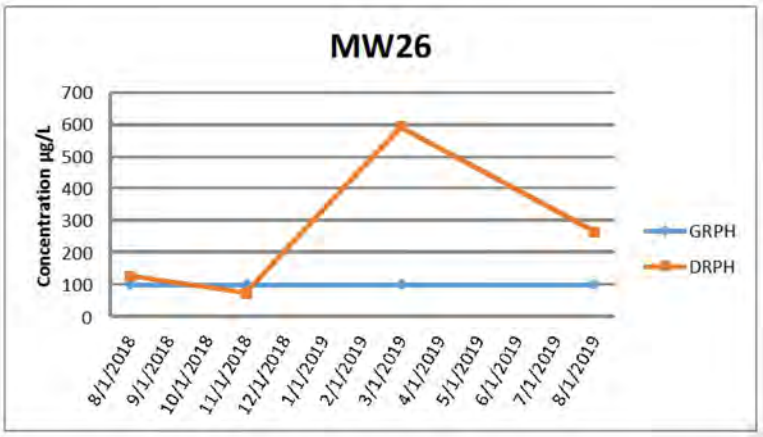
N
W E
S

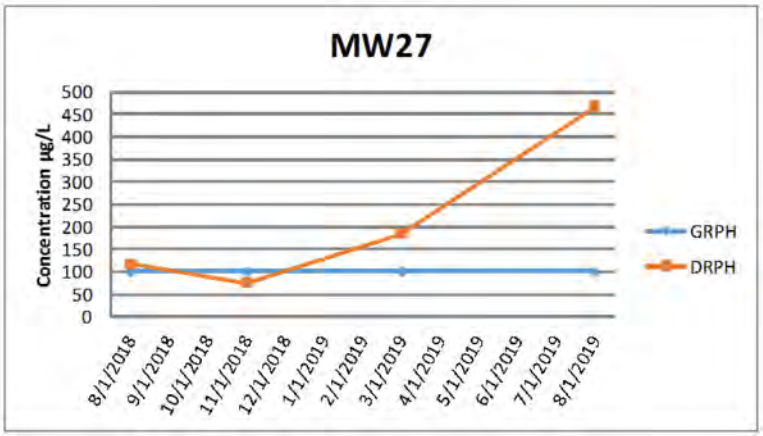
HydroCon

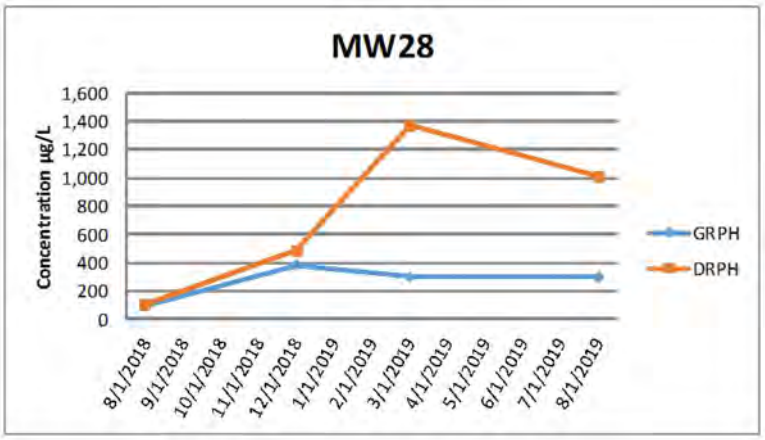
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4F
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







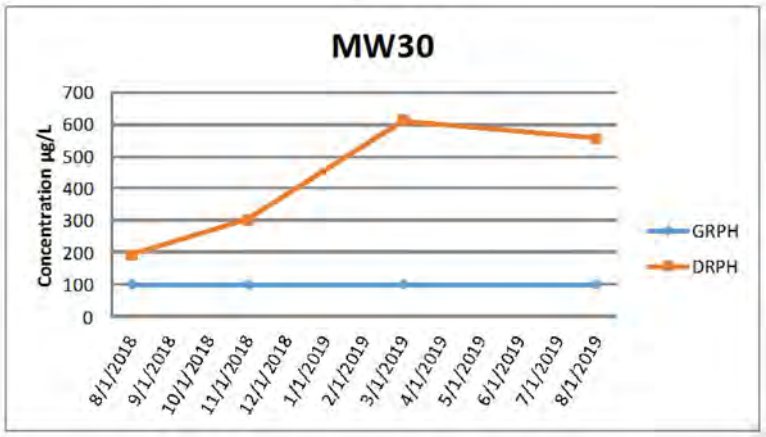
N
W E
S

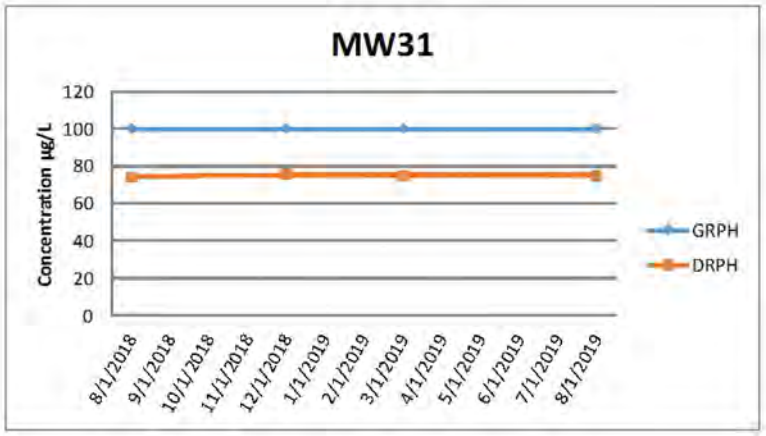
HydroCon

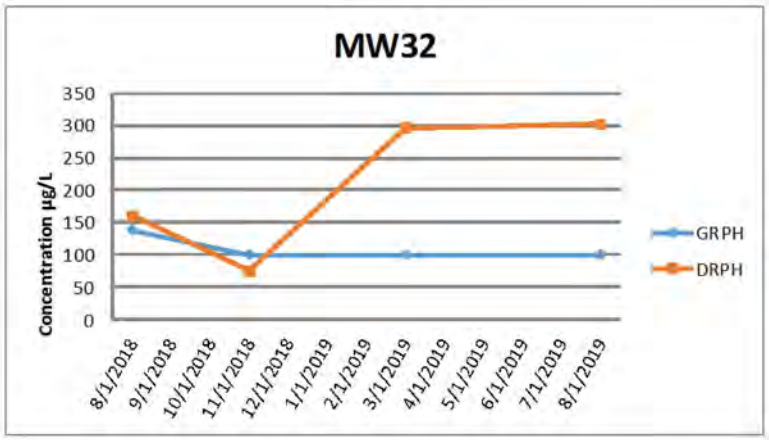
DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4G
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







N
W E
S

HydroCon

DATE: 9-23-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4H
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

MW22
MW21
605
Upriver Primary
Containment Boom
MW24
560
MW10R
3,620
?
MW25
<74.8
SL04
MW26
266
SL03
SL02
BH-3
816
MW27
467
RW-1
116
SL01
FB-9
MW20
870
?
MW28
1,010
BH01R
1,910
Downriver Primary
Containment Boom
?
MW29
0.12' LNAPL
MW19
4,300
MW30
557
SL05
BH-2
6,150
FB-8
MW31
<74.8
?
COLUMBIA RIVER
MW09R
5,880
FB-7
FB-3
MW17
6,730
302
MW32
CHEHALIS ST.
MW18
?
MW-8
1,320
MW16
349
Excavated Areas
SUMP#5
HC02
?
FB-11
Former
Storage
Building
FB-4
FB-5
SUMP#6
MW-11
1,060
FB-10
SUMP#3
East-West
Trench
North-South
Trench
MW15
Former Main Office
and Warehouse
Building
HC12
MW14
1,280
SUMP#2
MW-6
1,200
MW-7
MW23
580
Former Truck
Loading Rack
East-West
Trench 2
HC01
FB-6
MW-5
TP08
MW-4
West Trench
SUMP#1
HC10
EPT2
TP07
SUMP#4
MW-2
Former Product Lines
2019 Remedial Excavation
HC11
Drum Spill Excavation
Former Tank Farm B
Fuel and Oil ASTs
MW13R
2,180
UST Access
2013 Remedial
Excavation
Former Pipe Load/Unload
269
MW01S
MW-1/FB-1
Control Valve Building
Former Above Ground Pumps
MW03S
114
Tank Farm A
Fuel ASTs
MW-3
Former
Dispenser
Island
Cardlock
Dispenser
Island
S WORTHEN ST.
River Bank
<74.8
MW12

LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- SL04 — Shoreline Sample Locations
- Containment Booms
- 7,040 — DRPH Concentration ug/L
- >2,000 ug/L
- 1,000-2,000 ug/L
- 500-1,000 ug/L
- Area of seeps in contact with impacted soil
- MTCA Method A Cleanup Level for DRPH = 500 ug/L

FIGURE 5
DRPH IN GROUNDWATER
FOR (AUGUST 2019)
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 10-10-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

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

SCALE IN FEET
1" = 50'
0 50 100

N W E S

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Sept 2019\2017-074_BM-090419.dwg

MW22
MW21
453
Upriver Primary
Containment Boom
?
MW24
<100
MW10R
1,270
MW25
<100
SL04
SL03
SL02
SL01
MW26
<100
BH-3
816
MW27
<100
RW-1
<100
FB-9
MW20
588
MW28
302
?
BH01R
518
MW29
0.12' LNAPL
Downriver Primary
Containment Boom
MW19
MW30
<100
SL05
BH-2
295
FB-8
MW31
<100
COLUMBIA RIVER
?
MW09R
1,080
FB-7
FB-3
MW17
655
<100
MW32
CHEHALIS ST.
MW18
MW-8
899
MW16
<100
Excavated Areas
SUMP#5
HC02
FB-11
FB-4
MW-11
1,230
FB-5
SUMP#6
FB-10
Former
Storage
Building
East-West
Trench
North-South
Trench
MW15
SUMP#3
Former Main Office
and Warehouse
Building
HC12
MW14
3,510
SUMP#2
MW-6
356
MW-7
MW23
<100
Former Truck
Loading Rack
East-West
Trench 2
HC01
FB-6
MW-5
TP08
MW-4
West Trench
SUMP#1
TP07
HC10
EPT2
SUMP#4
MW-2
Former Product Lines
2019 Remedial Excavation
HC11
Drum Spill Excavation
Former Tank Farm B
Fuel and Oil ASTs
MW13R
966
UST Access
2013 Remedial
Excavation
Former Pipe Load/Unload
<100
MW01S
MW-1/FB-1
Control Valve Building
Former Above Ground Pumps
MW03S
<100
Tank Farm A
Fuel ASTs
MW-3
Former
Dispenser
Island
Cardlock
Dispenser
Island
S WORTHEN ST.
River Bank
<100
MW12

LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- SL04 — Shoreline Sample Locations
- Containment Booms
- 2,180 — GRPH Concentration
- 800-5,000 ug/L
- 100-799 ug/L
- Area of seeps in contact with impacted soil
- MTCA Method A Cleanup Level for GRPH = 800 ug/L

FIGURE 6
GRPH IN GROUNDWATER

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 10-10-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

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

SCALE IN FEET
1" = 50'
0 50 100

N W E S

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\Sept 2019\2017-074_BM-090419.dwg

TABLES

Table 1
Well Construction Details
Coleman Oil
Wenatchee, Washington

Well ID	Date Installed	Installed By	Drilling Method	Total Boring Depth (feet bgs)	Total Well Depth (feet bgs)	Well Diameter (inch)	Well Construction Material	Screen Slot Size (inch)	Length of Screen (feet)	Length of Bottom Cap (feet)	Screened Interval (feet bgs)	Well Casing Elevation (feet[1])
MW-1	7/7/2010	Farallon	Air Rotary	35.50	35.00	2	PVC	0.01	15	-	20-35	658.01
MW01S	3/4/2018	HydroCon	Sonic	20.00	19.99	4	PVC	0.01	15	0.23	5.37 - 20.37	657.54
MW-2	7/8/2010	Farallon	Air Rotary	40.00	40.00	2	PVC	0.01	15	-	25-40	657.76
MW-3	9/7/2010	Farallon	Air Rotary	35.30	35.00	2	PVC	0.01	10	-	25-35	658.26
MW03S	4/3/2018	HydroCon	Sonic	20.00	19.30	4	PVC	0.01	15	0.23	4.43 - 19.43	658.17
MW-4	9/8/2010	Farallon	Air Rotary	40.10	37.00	2	PVC	0.01	10	-	27-37	657.48
MW-5	9/9/2010	Farallon	Air Rotary	45.40	45.00	2	PVC	0.01	15	-	30-45	656.00
MW-6	4/12/2017	Farallon	Air Rotary	18.40	18.00	4	PVC	0.02	10	-	8-18	657.70
MW-7	4/11/2017	Farallon	Air Rotary	20.10	20.00	4	PVC	0.02	10	-	10-20	657.52
MW-8	4/11/2017	Farallon	Air Rotary	25.20	25.00	4	PVC	0.02	10	-	15-25	656.20
MW-9	4/12/2017	Farallon	Air Rotary	24.50	24.00	4	PVC	0.02	10	-	14-24	655.29
MW09R	8/15/2018	HydroCon	Sonic	35.00	32.60	4	PVC	0.01	25	0.45	8.59-33.59	653.55
MW-10	4/14/2017	Farallon	Air Rotary	30.20	30.00	2	PVC	0.02	16	-	14-30	645.80
MW10R	8/16/2018	HydroCon	Sonic	35.00	33.59	4	PVC	0.01	20	0.45	14.64-34.64	644.30
MW-11	4/14/2017	Farallon	Air Rotary	22.30	22.00	4	PVC	0.02	10	-	12-22	658.00
MW12	4/2/2018	HydroCon	Sonic	20.00	19.52	4	PVC	0.01	15	0.23	4.63 - 19.63	658.27
MW13R	7/2/2019	HydroCon	Sonic	19.00	18.46	4	PVC	0.01	14	0.23	4.23 - 18.23	656.67
MW14	3/30/2018	HydroCon	Sonic	35.00	20.02	4	PVC	0.01	15	0.23	5.23 - 20.23	657.15
MW15	4/12/2018	HydroCon	Sonic	35.10	35.10	4	PVC	0.01	25	0.23	10.33 - 35.33	654.99
MW16	4/5/2018	HydroCon	Sonic	30.00	29.15	4	PVC	0.01	20	0.23	9.28 - 29.28	656.93
MW17	4/4/2018	HydroCon	Sonic	35.00	29.41	4	PVC	0.01	20	0.23	9.52 - 29.52	655.55
MW18	4/11/2018	HydroCon	Sonic	35.00	34.65	4	PVC	0.01	20	0.23	15.86 - 35.86	654.51
MW19	4/5/2018	HydroCon	Sonic	35.00	31.48	4	PVC	0.01	20	0.23	11.66 - 31.66	653.31
MW20	4/10/2018	HydroCon	Sonic	30.00	29.50	4	PVC	0.01	20	0.23	9.79 - 29.79	650.85
MW21	4/9/2018	HydroCon	Sonic	35.00	32.10	4	PVC	0.01	20	0.23	12.30 - 32.30	643.88
MW22	4/13/2018	HydroCon	Sonic	40.00	39.10	4	PVC	0.01	25	0.23	9.19 - 34.19	641.85
MW23	3/29/2018	HydroCon	Sonic	25.00	22.04	4	PVC	0.01	15	0.23	7.13 - 22.13	656.91
MW24	8/6/2018	HydroCon	Sonic	35.00	34.25	4	PVC	0.01	20	0.45	14.17-34.17	644.38
MW25	8/7/2018	HydroCon	Sonic	35.00	32.96	4	PVC	0.01	20	0.45	12.81-32.81	645.57
MW26	8/8/2018	HydroCon	Sonic	35.00	32.52	4	PVC	0.01	20	0.45	13.54-33.54	646.65
MW27	8/9/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.56-38.56	649.00
MW28	8/10/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.62-38.62	650.64
MW29	8/13/2018	HydroCon	Sonic	40.00	39.11	4	PVC	0.01	25	0.45	14.05-39.05	652.34
MW30	8/14/2018	HydroCon	Sonic	40.00	39.79	4	PVC	0.01	25	0.45	14.67-39.67	652.83
MW31	8/15/2018	HydroCon	Sonic	40.00	39.28	4	PVC	0.01	25	0.45	14.11-39.11	653.97
MW32	8/17/2018	HydroCon	Sonic	35.00	34.02	4	PVC	0.01	25	0.45	8.95-33.95	655.83
BH01R	3/25/2017	HydroCon	Sonic	40.00	39.97	4	PVC	0.01	25	0.45	14.52-39.52	651.03
BH-2	3/25/2017	EPI	Air Rotary	35.00	35.00	2	PVC	0.01	15	-	20-35	653.77
BH-3	3/26/2017	EPI	Air Rotary	30.00	30.00	2	PVC	0.01	15	-	15-30	648.76
RW-1	4/10/2017	Farallon	Air Rotary	30.00	30.00	3	PVC	0.02	15	-	15-30	650.42

NOTES:

feet[1] = Elevation is relative to NGVD88

bgs = below ground surface

PVC = polyvinyl chloride

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-1	4/17/2017	20-35	658.01	9.47	- - -	- - -	648.54
	4/20/2017			9.63	- - -	- - -	648.38
	4/27/2017			10.14	- - -	- - -	647.87
	5/1/2017			10.31	- - -	- - -	647.70
	6/8/2017			11.20	- - -	- - -	646.81
	7/3/2017			NM	- - -	- - -	- - -
	9/28/2017			12.36	- - -	- - -	645.65
	8/27/2018			12.17	- - -	- - -	645.84
	8/31/2018			12.20	- - -	- - -	645.81
	11/26/2018			11.36	- - -	- - -	646.65
	11/30/2018			11.38	- - -	- - -	646.63
	3/29/2019			9.68	- - -	- - -	648.33
	8/29/2019			11.69	- - -	- - -	646.32
MW01S	4/25/2018	5.37 - 20.37	657.54	10.49	- - -	- - -	647.05
	4/27/2018			10.62	- - -	- - -	646.92
	8/27/2018			12.30	- - -	- - -	645.24
	8/31/2018			12.33	- - -	- - -	645.21
	11/26/2018			11.54	- - -	- - -	646.00
	11/30/2018			11.51	- - -	- - -	646.03
	3/29/2019			9.88	- - -	- - -	647.66
	8/29/2019			11.81	- - -	- - -	645.73
MW-2	4/17/2017	25-40	657.76	9.58	- - -	- - -	648.18
	4/20/2017			9.61	- - -	- - -	648.15
	4/27/2017			10.19	- - -	- - -	647.57
	5/1/2017			10.36	- - -	- - -	647.40
	6/8/2017			11.33	- - -	- - -	646.43
	7/3/2017			11.96	- - -	- - -	645.80
	9/28/2017			12.65	- - -	- - -	645.11
	4/25/2018			10.50	- - -	- - -	647.26
	4/27/2018			10.54	- - -	- - -	647.22
	8/27/2018			12.20	- - -	- - -	645.56
	8/31/2018			12.22	- - -	- - -	645.54
	11/26/2018			11.43	- - -	- - -	646.33
	11/30/2018			11.46	- - -	- - -	646.30
	3/29/2019			9.61	- - -	- - -	648.15
	8/29/2019			11.65	- - -	- - -	646.11
MW-3	4/17/2017	25-35	658.26	7.12	- - -	- - -	651.14
	4/20/2017			7.15	- - -	- - -	651.11
	4/27/2017			11.44	- - -	- - -	646.82
	5/1/2017			7.90	- - -	- - -	650.36
	6/8/2017			7.33	- - -	- - -	650.93
	7/3/2017			7.46	- - -	- - -	650.80
	9/28/2017			7.74	- - -	- - -	650.52
	8/27/2018			7.75	- - -	- - -	650.51
	8/31/2018			7.80	- - -	- - -	650.46
	11/26/2018			7.78	- - -	- - -	650.48
	11/30/2018			7.89	- - -	- - -	650.37
	3/29/2019			6.42	- - -	- - -	651.84
	8/29/2019			7.53	- - -	- - -	650.73

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW03S	4/25/2018	4.43 - 19.43	658.17	7.25	- - -	- - -	650.92
	4/27/2018			7.24	- - -	- - -	650.93
	8/27/2018			8.04	- - -	- - -	650.13
	8/31/2018			8.05	- - -	- - -	650.12
	11/26/2018			7.48	- - -	- - -	650.33
	11/30/2018			7.93	- - -	- - -	650.33
	3/29/2019			7.22	- - -	- - -	650.24
	8/29/2019			7.72	- - -	- - -	650.45
MW-4	4/17/2017	27-37	657.48	15.29	- - -	- - -	642.19
	4/20/2017			15.40	- - -	- - -	642.08
	4/27/2017			15.74	- - -	- - -	641.74
	5/1/2017			15.71	- - -	- - -	641.77
	6/8/2017			16.23	- - -	- - -	641.25
	7/3/2017			16.93	- - -	- - -	640.55
	9/28/2017			18.18	- - -	- - -	639.30
	4/25/2018			16.22	- - -	- - -	641.26
	4/27/2018			17.59	- - -	- - -	639.89
	8/27/2018			17.25	- - -	- - -	640.23
	8/31/2018			17.28	- - -	- - -	640.20
	11/26/2018			16.54	- - -	- - -	640.94
	11/30/2018			16.55	- - -	- - -	640.93
	3/29/2019			14.66	- - -	- - -	642.82
	8/29/2019			16.14	- - -	- - -	641.34
MW-5	4/17/2017	30-45	656.00	33.98	- - -	- - -	622.02
	4/20/2017			35.67	- - -	- - -	620.33
	4/27/2017			34.98	- - -	- - -	621.02
	5/1/2017			35.92	- - -	- - -	620.08
	6/8/2017			32.06	- - -	- - -	623.94
	7/3/2017			36.75	- - -	- - -	619.25
	9/28/2017			38.67	- - -	- - -	617.33
	4/25/2018			NM	- - -	- - -	- - -
	4/27/2018			35.58	- - -	- - -	620.42
	8/27/2018			38.21	- - -	- - -	617.79
	8/31/2018			38.30	- - -	- - -	617.70
	11/26/2018			38.34	- - -	- - -	617.66
	11/30/2018			38.44	- - -	- - -	617.56
	3/29/2019			37.58	- - -	- - -	618.42
	8/29/2019			38.00	- - -	- - -	618.00
MW-6	4/17/2017	8-18	657.70	9.57	- - -	- - -	648.13
	4/20/2017			9.40	- - -	- - -	648.30
	4/27/2017			9.89	- - -	- - -	647.81
	5/1/2017			9.95	- - -	- - -	647.75
	6/8/2017			10.60	10.55	0.05	647.14
	7/3/2017			11.10	- - -	- - -	646.60
	9/28/2017			11.51	- - -	- - -	646.19
	4/25/2018			10.20	- - -	- - -	647.50
	4/27/2018			10.21	- - -	- - -	647.49
	8/27/2018			11.28	- - -	- - -	646.42
	8/31/2018			11.29	- - -	- - -	646.41
	11/26/2018			10.82	- - -	trace	646.88
	11/30/2018			10.84	- - -	- - -	646.86
	3/29/2019			9.50	- - -	trace	648.20
	8/29/2019			10.89	- - -	- - -	646.81

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-7	4/17/2017	10-20	657.52	9.64	- - -	- - -	647.88
	4/20/2017			9.71	- - -	- - -	647.81
	4/27/2017			10.26	- - -	- - -	647.26
	5/1/2017			10.35	- - -	- - -	647.17
	6/8/2017			11.44	- - -	- - -	646.08
	7/3/2017			11.91	- - -	- - -	645.61
	9/28/2017			12.46	- - -	- - -	645.06
	4/25/2018			10.61	- - -	- - -	646.91
	4/27/2018			10.63	- - -	- - -	646.89
	8/27/2018			11.96	- - -	- - -	645.56
	8/31/2018			12.18	- - -	- - -	645.34
	11/26/2018			11.50	- - -	- - -	646.02
	11/30/2018			11.53	- - -	- - -	645.99
	3/29/2019			9.72	- - -	- - -	647.80
	8/29/2019			11.67	- - -	- - -	645.85
MW-8	4/13/2017	15-25	656.20	16.71	14.50	2.21	641.21
	4/17/2017			13.47	- - -	- - -	642.73
	4/20/2017			13.96	13.95	0.01	642.25
	4/27/2017			17.25	14.91	2.34	640.78
	5/1/2017			17.47	14.94	2.53	640.70
	6/8/2017			18.02	- - -	- - -	638.18
	7/3/2017			17.97	17.91	0.07	638.28
	9/28/2017			18.10	- - -	- - -	638.10
	4/25/2018			15.14	- - -	- - -	641.06
	4/27/2018			15.12	- - -	- - -	641.08
	8/27/2018			16.71	- - -	- - -	639.49
	8/31/2018			16.77	- - -	- - -	639.43
	11/26/2018			16.04	- - -	- - -	640.16
	11/30/2018			16.07	- - -	- - -	640.13
	3/29/2019			13.37	- - -	- - -	642.83
	8/29/2019			15.96	- - -	- - -	640.24
MW-9	4/17/2017	14-24	655.29	13.56	- - -	- - -	641.73
	4/20/2017			14.31	- - -	- - -	640.98
	4/27/2017			17.45	16.75	0.70	638.39
	5/1/2017			18.60	17.33	1.27	637.68
	6/8/2017			22.14	- - -	- - -	633.15
	7/3/2017			22.16	- - -	- - -	633.13
	9/28/2017			22.69	- - -	- - -	632.60
	4/25/2018			17.22	- - -	- - -	638.07
	4/27/2018			17.22	- - -	- - -	638.07
MW09R	8/27/2018	8.59-33.59	653.55	19.90	- - -	- - -	635.39
	8/31/2018			19.91	- - -	- - -	635.38
	11/26/2018			28.28	- - -	- - -	625.27
	11/30/2018			19.94	- - -	- - -	633.61
	3/29/2019			12.82	- - -	- - -	640.73
	8/29/2019			19.81	- - -	- - -	633.74
MW-10	4/17/2017	14-30	645.80	16.72	- - -	- - -	629.08
	4/20/2017			17.31	- - -	- - -	628.49
	4/27/2017			18.11	- - -	- - -	627.69
	5/1/2017			18.99	- - -	- - -	626.81
	6/8/2017			19.88	- - -	- - -	625.92
	7/3/2017			25.06	23.62	1.44	621.86
	9/28/2017			25.70	- - -	- - -	620.10
	4/25/2018			21.18	- - -	- - -	624.62
	4/27/2018			20.96	- - -	- - -	624.84

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW10R	8/27/2018	14.66-34.64	644.30	24.64	- - -	- - -	619.66
	8/31/2018			25.71	- - -	- - -	618.59
	11/26/2018			27.51	- - -	- - -	616.79
	11/30/2018			26.19	25.95	0.24	618.30
	3/29/2019			18.54	- - -	- - -	625.76
	8/29/2019			NM	- - -	- - -	
MW-11	4/17/2017	12-22	658.00	13.45	- - -	- - -	644.55
	4/20/2017			13.45	- - -	- - -	644.55
	4/27/2017			13.76	- - -	- - -	644.24
	5/1/2017			13.77	- - -	- - -	644.23
	6/8/2017			14.32	14.05	0.27	643.89
	7/3/2017			14.30	- - -	- - -	643.70
	9/28/2017			14.65	- - -	- - -	643.35
	4/25/2018			13.82	- - -	- - -	644.18
	4/27/2018			13.82	- - -	- - -	644.18
	8/27/2018			14.20	- - -	- - -	643.80
	8/31/2018			14.21	- - -	- - -	643.79
	11/26/2018			14.11	- - -	- - -	643.89
	11/30/2018			14.11	- - -	- - -	643.89
	3/29/2019			13.41	- - -	- - -	644.59
	8/29/2019			14.09	- - -	- - -	643.91
MW12	4/25/2018	4.63 - 19.63	658.27	7.37	- - -	- - -	650.90
	4/27/2018			7.31	- - -	- - -	650.96
	8/27/2018			8.01	- - -	- - -	650.26
	8/31/2018			8.04	- - -	- - -	650.23
	11/26/2018			7.88	- - -	- - -	650.39
	11/30/2018			7.93	- - -	- - -	650.34
	3/29/2019			7.13	- - -	- - -	651.14
	8/29/2019			7.70	- - -	- - -	650.57
MW13	4/25/2018	4.91 - 19.91	657.04	7.39	- - -	- - -	649.65
	4/27/2018			7.36	- - -	- - -	649.68
	8/27/2018			8.05	- - -	- - -	648.99
	8/31/2018			8.15	- - -	- - -	648.89
	11/26/2018			8.22	- - -	- - -	648.82
	11/30/2018			8.17	- - -	- - -	648.87
	3/29/2019			7.21	- - -	- - -	649.83
	8/29/2019			7.61	- - -	- - -	649.43
MW14	4/25/2018	5.23 - 20.23	657.15	7.81	- - -	- - -	649.34
	4/27/2018			7.75	- - -	- - -	649.40
	8/27/2018			8.35	- - -	- - -	648.80
	8/31/2018			8.40	- - -	- - -	648.75
	11/26/2018			8.45	- - -	- - -	648.70
	11/30/2018			8.51	- - -	- - -	648.64
	3/29/2019			7.70	- - -	- - -	649.45
	8/29/2019			8.03	- - -	- - -	649.12
MW15	4/25/2018	10.33 - 35.33	654.99	NM	- - -	- - -	- - -
	4/27/2018			34.80	- - -	- - -	620.19
	8/27/2018			34.76	- - -	- - -	620.23
	8/31/2018			34.82	- - -	- - -	620.17
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			dry	- - -	- - -	- - -
	3/29/2019			dry	- - -	- - -	- - -
	8/29/2019			dry	- - -	- - -	- - -

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW16	4/25/2018	9.28 - 29.28	656.93	9.72	- - -	- - -	647.21
	4/27/2018			9.70	- - -	- - -	647.23
	8/27/2018			10.05	- - -	- - -	646.88
	8/31/2018			10.18	- - -	- - -	646.75
	11/26/2018			10.07	- - -	- - -	646.86
	11/30/2018			9.73	- - -	- - -	647.20
	3/29/2019			9.44	- - -	- - -	647.49
	8/29/2019			9.89	- - -	- - -	647.04
MW17	4/25/2018	9.52 - 29.52	655.55	14.25	- - -	- - -	641.30
	4/27/2018			14.22	- - -	- - -	641.33
	8/27/2018			15.07	- - -	- - -	640.48
	8/31/2018			15.14	- - -	- - -	640.41
	11/26/2018			14.78	- - -	- - -	640.77
	11/30/2018			14.66	- - -	- - -	640.89
	3/29/2019			13.38	- - -	- - -	642.17
	8/29/2019			14.23	- - -	- - -	641.32
MW18	4/25/2018	15.86 - 35.86	654.51	NM	- - -	- - -	- - -
	4/27/2018			34.69	- - -	- - -	619.82
	8/27/2018			dry	- - -	- - -	- - -
	8/31/2018			dry	- - -	- - -	- - -
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			dry	- - -	- - -	- - -
	3/29/2019			dry	- - -	- - -	- - -
	8/29/2019			dry	- - -	- - -	- - -
MW19	4/25/2018	11.66 - 31.66	653.31	23.05	- - -	- - -	630.26
	4/27/2018			23.15	- - -	- - -	630.16
	8/27/2018			28.63	- - -	- - -	624.68
	8/31/2018			28.83	- - -	- - -	624.48
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			27.72	- - -	- - -	625.59
	3/29/2019			21.30	- - -	- - -	632.01
	8/29/2019			30.45	- - -	- - -	622.86
MW20	4/25/2018	9.79 - 29.79	650.85	18.55	- - -	- - -	632.30
	4/27/2018			18.64	- - -	- - -	632.21
	8/27/2018			24.97	- - -	- - -	625.88
	8/31/2018			25.24	- - -	- - -	625.61
	11/26/2018			25.20	- - -	- - -	625.65
	11/30/2019			24.95	- - -	- - -	625.90
	3/29/2019			13.32	- - -	- - -	637.53
	8/29/2019			25.02	- - -	- - -	625.83
MW21	4/25/2018	12.30 - 32.30	643.88	19.40	- - -	- - -	624.48
	4/27/2018			19.31	- - -	- - -	624.57
	8/27/2018			20.88	- - -	- - -	623.00
	8/31/2018			21.36	- - -	- - -	622.52
	11/26/2018			20.42	- - -	- - -	623.46
	11/30/2018			20.71	- - -	- - -	623.17
	3/29/2019			19.67	- - -	- - -	624.21
	8/29/2019			20.59	- - -	- - -	623.29

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW22	4/25/2018	9.19 - 34.19	641.85	21.80	- - -	- - -	620.05
	4/27/2018			21.80	- - -	- - -	620.05
	8/27/2018			23.72	- - -	- - -	618.13
	8/31/2018			24.46	- - -	- - -	617.39
	11/26/2018			23.49	- - -	- - -	618.36
	11/30/2018			24.74	- - -	- - -	617.11
	3/29/2019			24.90	- - -	- - -	616.95
	8/29/2019			NM	- - -	- - -	
MW23	4/25/2018	7.13 - 22.13	656.91	10.28	- - -	- - -	646.63
	4/27/2018			10.30	- - -	- - -	646.61
	8/27/2018			12.16	- - -	- - -	644.75
	8/31/2018			11.99	- - -	- - -	644.92
	11/26/2018			11.27	- - -	- - -	645.64
	11/30/2019			11.30	- - -	- - -	645.61
	3/29/2019			9.36	- - -	- - -	647.55
	8/29/2019			11.42	- - -	- - -	645.49
MW24	8/27/2018	14.17 - 34.17	644.38	26.03	- - -	- - -	618.35
	8/31/2018			26.77	- - -	- - -	617.61
	11/26/2018			27.11	- - -	- - -	617.27
	11/30/2018			27.05	- - -	- - -	617.33
	3/29/2019			24.75	- - -	- - -	619.63
	8/29/2019			26.51	- - -	- - -	617.87
MW25	8/27/2018	12.81 - 32.81	645.57	26.01	- - -	- - -	619.56
	8/31/2018			26.49	- - -	- - -	619.08
	11/26/2018			24.96	- - -	- - -	620.61
	11/30/2018			25.19	- - -	- - -	620.38
	3/29/2019			13.45	- - -	- - -	632.12
	8/29/2019			26.02	- - -	- - -	619.55
MW26	8/27/2018	13.54 - 33.54	646.65	25.23	- - -	- - -	621.42
	8/31/2018			25.76	- - -	- - -	620.89
	11/26/2018			25.45	- - -	- - -	621.20
	11/30/2018			25.83	- - -	- - -	620.82
	3/29/2019			16.35	- - -	- - -	630.30
	8/29/2019			26.33	- - -	- - -	620.32
MW27	8/27/2018	13.56 - 38.56	649.00	24.87	- - -	- - -	624.13
	8/31/2018			25.06	- - -	- - -	623.94
	11/26/2018			24.92	- - -	- - -	624.08
	11/30/2018			23.90	- - -	- - -	625.10
	3/29/2019			20.04	- - -	- - -	628.96
	8/29/2019			23.89	- - -	- - -	625.11
MW28	8/27/2018	13.62 - 38.62	650.64	26.04	- - -	- - -	624.60
	8/31/2018			26.25	- - -	- - -	624.39
	11/26/2018			33.05	- - -	- - -	617.59
	11/30/2018			25.00	- - -	- - -	625.64
	3/29/2019			20.50	- - -	- - -	630.14
	8/29/2019			24.96	- - -	- - -	625.68
MW29	8/27/2018	14.05 - 39.05	652.34	34.43	- - -	- - -	617.91
	8/31/2018			34.84	- - -	- - -	617.50
	11/26/2018			34.92	- - -	- - -	617.42
	11/30/2018			34.25	- - -	- - -	618.09
	3/29/2019			20.80	- - -	- - -	631.54
	8/29/2019			30.67	30.67	<0.01	621.67

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW30	8/27/2018	14.67 - 39.67	652.83	34.73	- - -	- - -	618.10
	8/31/2018			35.01	- - -	- - -	617.82
	11/26/2018			34.91	- - -	- - -	617.92
	11/30/2018			34.84	- - -	- - -	617.99
	3/29/2019			35.28	- - -	- - -	617.55
	8/29/2019			35.05	- - -	- - -	617.78
MW31	8/27/2018	14.11 - 39.11	653.97	34.55	- - -	- - -	619.42
	8/31/2018			35.16	- - -	- - -	618.81
	11/26/2018			35.04	- - -	- - -	618.93
	11/30/2019			34.96	- - -	- - -	619.01
	3/29/2019			32.45	- - -	- - -	621.52
	8/29/2019			34.02	- - -	- - -	619.95
MW32	8/27/2018	8.95 - 33.95	655.83	12.41	- - -	- - -	643.42
	8/31/2018			12.43	- - -	- - -	643.40
	11/26/2018			12.28	- - -	- - -	643.55
	11/30/2019			12.25	- - -	- - -	643.58
	3/29/2019			11.13	- - -	- - -	644.70
	8/29/2019			12.01	- - -	- - -	643.82
BH-1	4/17/2017	20-30	652.17	19.71	- - -	- - -	632.46
	4/20/2017			20.13	- - -	- - -	632.04
	4/27/2017			22.88	- - -	- - -	629.29
	5/1/2017			23.16	- - -	- - -	629.01
	6/8/2017			25.64	- - -	- - -	626.53
	7/3/2017			28.46	27.91	0.55	624.14
	9/28/2017			28.73	- - -	- - -	623.44
	4/25/2018			23.03	- - -	- - -	629.14
	4/27/2018			20.03	- - -	- - -	632.14
	8/27/2018			26.21	- - -	- - -	625.96
	8/31/2018			26.27	- - -	- - -	625.90
	11/26/2018			NM	- - -	- - -	- - -
	11/30/2018			NM	- - -	- - -	- - -
BH01R	3/29/2019	14.52-39.52	651.03	20.30	- - -	- - -	630.73
	8/29/2019			24.64	- - -	- - -	626.39
BH-2	4/17/2017	20-35	653.77	26.16	- - -	- - -	627.61
	4/20/2017			26.30	- - -	- - -	627.47
	4/27/2017			26.56	26.48	0.08	627.27
	5/1/2017			26.68	26.58	0.10	627.17
	6/8/2017			26.73	- - -	- - -	627.04
	7/3/2017			28.86	- - -	- - -	624.91
	9/28/2017			31.25	- - -	- - -	622.52
	4/25/2018			27.68	- - -	- - -	626.09
	4/28/2017			27.53	- - -	- - -	626.24
	8/27/2018			28.50	- - -	- - -	625.27
	8/31/2018			28.91	- - -	- - -	624.86
	11/26/2018			28.66	- - -	trace	625.11
	11/30/2018			28.63	- - -	trace	625.14
	3/29/2019			27.75	- - -	- - -	626.02
	8/29/2019			28.51	- - -	- - -	625.26

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
BH-3	4/17/2017	15-30	648.76	17.47	- - -	- - -	631.29
	4/20/2017			17.88	- - -	- - -	630.88
	4/27/2017			18.70	- - -	- - -	630.06
	5/1/2017			19.06	- - -	- - -	629.70
	6/8/2017			21.19	- - -	- - -	627.57
	7/3/2017			21.70	- - -	- - -	627.06
	9/28/2017			23.04	- - -	- - -	625.72
	4/25/2018			20.06	- - -	- - -	628.70
	4/27/2018			22.36	- - -	- - -	626.40
	8/27/2018			22.20	- - -	- - -	626.56
	8/31/2018			23.68	- - -	- - -	625.08
	11/26/2018			24.05	- - -	- - -	624.71
	11/30/2018			25.29	- - -	- - -	623.47
	3/29/2019			18.05	- - -	- - -	630.71
	8/29/2019			25.43	- - -	- - -	623.33
RW-1	4/17/2017	15-30	650.42	16.15	- - -	- - -	634.27
	4/20/2017			16.34	- - -	- - -	634.08
	4/27/2017			17.35	- - -	- - -	633.07
	5/1/2017			18.55	- - -	- - -	631.87
	6/8/2017			22.67	- - -	- - -	627.75
	7/3/2017			24.19	- - -	- - -	626.23
	9/28/2017			26.74	- - -	- - -	623.68
	4/25/2018			21.19	- - -	- - -	629.23
	4/27/2018			21.21	- - -	- - -	629.21
	8/27/2018			25.09	- - -	- - -	625.33
	8/31/2018			25.69	- - -	- - -	624.73
	11/26/2018			28.81	- - -	- - -	621.61
	11/30/2018			25.63	- - -	- - -	624.79
	3/29/2019			21.12	- - -	- - -	629.30
	8/29/2019			26.80	- - -	- - -	623.62

NOTES:

- - - denotes no LNAPL present

bgs = below ground surface
LNAPL = light nonaqueous-phase liquid
NAPL = nonaqueous-phase liquid

[1]Elevation in feet above mean sea level. Elevations based on NAVD88 vertical datum. Well survey conducted by Munson Engineers, Inc. of Wenatchee, Washington in July 2010 and April 2017.

Groundwater elevations in wells with LNAPL corrected for water-level elevation using typical specific gravity of R99 LNAPL of 0.78.

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
FB-9	4/7/2017	1,200 F	2,900	1,200	2.4	< 1.0	3.7	1.7	--	--	--	--
FB-10	4/7/2017	2,000 F	57,000	< 4,100 ec	71	13	7.1	64	--	--	--	--
BH-1	4/21/2017	820 F	1,900	970 N1	15	2.8	8.3	18.5	--	--	--	--
	4/26/2018	2,140	1,390	<377	0.671	<1.00	5.55	12.5	--	--	--	--
	8/30/2018	591	243	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	12/1/2018	1,420	5,120 F13	<151	<0.200	<1.00	0.608	<1.50	--	--	--	--
BH01R	3/27/2019	1,130	13,600 F-13	<151	4.33	<1.00	1.15	1.78	--	--	--	--
	8/27/2019	518	1,910 F-13	<150	0.240	<1.00	<0.500	<1.50	--	--	--	--
BH-2	4/10/2017	1,900 F	100,000	10,000	< 4.0	< 4.0	13	39	--	--	--	--
	4/21/2017	1,500 F	2,600	630 N1	4.2	3.3	12	39	--	--	--	--
	4/24/2018	854	9,360	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2018	639	3,300	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/30/2018	509	7,040	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/27/2019	354	5,310 F-13, F-15	475 F-03, F-16	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	295	6,150 F-13	<150	<0.200	<1.00	<0.500	<1.50				
BH-3	4/21/2017	1,800 F	2,400	660	1.8	<1.0	5.4	8.2	--	--	--	--
	9/29/2017	150 O	1,200	550 N1	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/26/2018	172	1,130	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/30/2018	250	276	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	<100	502	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	319	1,850 F-13	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2019	121	816 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
RW-1	4/21/2017	<100	840	540 N1	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	9/29/2017	<100	360	440	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/26/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/30/2018	<100	327	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/30/2018	<100	152	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	<100	<74.8 F-13	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2019	<100	116 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-1	3/23/2017	---	520	480	---	---	---	---	--	--	--	--
	4/21/2017	210 F	730	510	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	9/29/2017	200	410	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	8/28/2018	449	219	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	152	159	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	172	126 F-11,F-20	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW01S	4/24/2018	188	<187	<374	0.42	<1.00	5.8	9.48	--	--	--	--
	8/28/2018	268	294	<151	1.49	<1.00	1.26	<1.50	--	--	--	--
	11/27/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	133	116 F-11, F-20	<151	<0.200	<1.00	4.18	8.97	--	--	--	--
	8/26/2019	<100	269 F-11, F-20	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-2	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**
Benzene (Non Detect)		**1,000**										
Benzene (Detect)		**800**										
Field ID	**Date**											
MW-3	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
MW03S	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	**<0.500** ec	<0.400
	8/29/2018	<100	**139**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	<100	<76.2	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	<100	**114** F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-4	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-5	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/25/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-6	4/20/2017	**880** F	**1,800**	**480** N1	**5.0**	<4.0	**6.2**	**37**	--	--	--	--
	9/28/2017	**530** O	**760**	**430** N1	<1.0	<1.0	<1.0	**4.3**	--	--	--	--
	4/25/2018	**643**	**1,620**	<374	**0.56**	<1.00	<0.500	**2.19**	--	--	--	--
	8/29/2018	**376**	**668**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	**499**	**634**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	**398**	**1,010** F-13,F-20	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	**356**	**1,200** F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW-7	4/20/2017	1,100 F	1,300	420 N1	3.2	< 1.0	15	11.4	--	--	--	--
	9/28/2017	<100	520	<470 U1	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	4/25/2018	<100	435	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/29/2018	<100	448	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/28/2018	<100	283	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-8	9/29/2017	1,300 O	2,100	690 N1	<1.0	<1.0	4.1	27.2	--	--	--	--
	4/26/2018	720	1,300	<374	0.641	<1.00	<0.500	4.67	--	--	--	--
	8/29/2018	774	907	<151	<0.200	<1.00	<0.500	3.42	--	--	--	--
	11/28/2018	921	505	<151	0.214	<1.00	1.06	6.23	--	--	--	--
	3/26/2019	768	2,220 F-13,F-20	<152	22.2	<1.00	<0.500	2.70	--	--	--	--
	8/26/2019	899	1,320 F-13,F-20	<151	0.853	<1.00	0.504	2.17	--	--	--	--
MW-9	9/29/2017	500 O	1,200	670 N1	<1.0	<1.0	<1.0	1.5	--	--	--	--
	4/26/2018	2,810	2,620	<374	2.73	<1.00	9.95	20.4	--	--	--	--
MW-9R	8/29/2018	234	654	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/28/2018	1,300	1,850	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/26/2019	1,000	5,690 F-13,F-20	<151	5.64	<1.00	0.545	<1.50	--	--	--	--
	8/27/2019	1,080	5,880 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW-10	4/21/2017	1,900 F	3,800	730	3.4	< 1.0	11	12.5	--	--	--	--
	9/29/2017	1,900 O	16,000	1,300 N1	<1.0	<1.0	13	26.7	--	--	--	--
	4/26/2018	2,290	1,500	<377	0.219	<1.00	3.52	5.95	--	--	--	--
MW-10R	8/30/2018	1,080	838	< 150	< 0.200	< 1.00	1.22	2.42	--	--	--	--
	11/29/2018	2,160	1,370	<755 ec	<0.200	<1.00	3.90	5.98	--	--	--	--
	3/28/2019	1,020	2,960 F-13	<151	0.401	<1.00	0.837	<1.50	--	--	--	--
	8/27/2019	1,270	3,620 F-13	<1,510 ec	<0.200	<1.00	1.44	3.06	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW-11	4/21/2017	1,400 F	1,700	1,000 N1	28	4.1	8.2	26.1	--	--	--	--
	9/29/2017	1,000 O	3,100	720 N1	<1.0	<1.0	1.9	12.5	--	--	--	--
	4/26/2018	1,240	1,140	<374	<0.200	<1.00	0.56	2.27	--	--	--	--
	8/29/2018	944	251	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	1,350	503	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/26/2019	1,540	1,230 F-13,F-20	<150	11.6	<1.00	<0.500	2.34	--	--	--	--
	8/26/2019	1,230	1,060 F-13, F-20	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW12	4/25/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2018	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	<100	92.8	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	<100	<76.2	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW13	4/25/2018	40,900	1,790	<377	1,500	4,710	627	3,780	--	--	--	--
	8/29/2018	39,300	2,500	<150	1,780	3,010	796	4,850	167	<50.0 ec	<25.0 ec	<25.0 ec
	11/27/2018	22,400	3,250	<151	1,380	271	458	3,170	--	--	--	--
	3/25/2019	28,500	4,650 F-11,F-20	<151	701	761	804	4,980	--	--	--	--
MW13R	8/26/2019	966	2,180 F-11,F-20	<151	96.4	<1.00	8.52	28.5	--	--	--	--
MW14	8/29/2018	4,040	487	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	4/25/2018	4,620	900	<374	13.1	<1.00	16.1	<1.50	3.21	<1.00	<0.500 ec	<0.400
	11/27/2018	5,170	933	<151	15.2	<1.00	1.70	<1.50	--	--	--	--
	3/25/2019	2,650	1,070 F-11,F-20	<151	17.8	<1.00	2.04	<1.50	--	--	--	--
	8/26/2019	3,510	1,280 F-11,F-20	<151	44.2	<10.0	5.95	<15	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW15	4/25/2018 iw	--	--	--	--	--	--	--	--	--	--	--
	8/29/20018 iw	--	--	--	--	--	--	--	--	--	--	--
	11/27/2018 iw	--	--	--	--	--	--	--	--	--	--	--
	3/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--
	8/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--
MW16	4/26/2018	<100	330	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/29/2018	<100	298	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/28/2018	<100	337	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/26/2019	<100	183 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	<100	349 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW17	4/26/2018	2,800	1,630	<377	1.23	<1.00	1.62	7.66	4.72	<1.00	<0.500 ec	<0.400
	8/29/2018	1,270	986	<150	0.450	<1.00	<0.500	<1.50	5.61	<1.00	<0.500 ec	<0.500
	11/28/2018	1,390	1,580	<151	0.305	<1.00	<0.500	<1.50	--	--	--	--
	3/26/2019	1,180	2,520 F-13,F-20	<151	2.91	<1.00	0.692	1.50	--	--	--	--
	8/26/2019	655	6,730 F-13	<150	2.72	<1.00	<0.500	<1.50	--	--	--	--
MW18	4/26/2018 iw	--	--	--	--	--	--	--	--	--	--	--
	8/2920018 iw	--	--	--	--	--	--	--	--	--	--	--
	11/27/2018 iw	--	--	--	--	--	--	--	--	--	--	--
	3/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--
	8/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--
MW19	4/26/2018	280	979	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2018	<100	406	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/30/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	447	4,300 F-13	<151	0.673	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	--	--	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW20	4/26/2018	1,270	1,320	<377	<0.200	<1.00	1.56	5.44	--	--	--	--
	8/30/2018	320	346	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	674	1,280	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	1,220	2,190 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2019	588	870 F-11,F-20	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW21	4/26/2018	991	965	<374	<0.200	<1.00	0.835	1.82	--	--	--	--
	8/30/2018	<100	234	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	789	992	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	799	1,400 F-13	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	453	605 F-11,F-20	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW22	4/26/2018	6,960	4,690	<377	118	28.8	102	196	--	--	--	--
	8/30/2018	2,040	1,150	<748 ec	30.4	5.34	30.5	55.9	--	--	--	--
MW23	4/25/2018	<100	419	<381	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/29/2018	<100	266	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	<100	380	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/25/2019	<100	339 F-11	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	<100	580 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW24	8/30/2018	<100	220	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	154	914	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	<100	696 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	<100	560 F-11, F-20	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW25	8/30/2018	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/27/2018	<100	121	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	<100	302 F-11	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	<100	262 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW26	8/30/2018	<100	128	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	<100	591 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	<100	266 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW27	8/30/2018	<100	118	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/28/2019	<100	185 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/28/2019	<100	467 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW28	8/30/2018	<100	105	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	12/1/2018	385	486	<158	0.208	<1.00	<0.500	<1.50	--	--	--	--
	3/27/2019	303	1,370 F-13	<151	1.30	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	302	1,010 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW29	8/28/2018	<100	459	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	<100	238	809	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/27/2019	237	2,930 F-13,F-15	928 F-16	1.64	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	--	--	--	--	--	--	--	--	--	--	--
MW30	8/28/2018	<100	193	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	11/29/2018	<100	304	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/27/2019	<100	612 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	<100	557 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles							
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)		1,000										
Benzene (Detect)		800										
Field ID	**Date**											
MW31	8/28/2018	<100	<74.1	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	12/1/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/27/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/27/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
MW32	8/29/2018	139	161	<148	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	<0.500 ec	<0.500
	11/28/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	3/26/2019	<100	296 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--
	8/26/2019	<100	302 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--

Notes:

Red denotes concentration in excess of MTCA Method Cleanup Level for Groundwater.
Blue denotes concentration in excess of laboratory method reporting limit (MRL) but below the MTCA Method Cleanup Level for Groundwater.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
GRPH (gasoline range petroleum hydrocarbons) analyzed by Method NWTPH-Gx.
DRPH (diesel range petroleum hydrocarbons) and ORPH (oil range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.
VOCs = volatile organic compounds
VOCs analyzed by EPA Method 8260C
Total Lead by EPA Method 6020
< = less than method reporting limit shown
--- = not analyzed. MW15 and MW18 not sampled due to lack of water in the well.
ec = Method reporting limit exceeds Clean Up Level shown.
F and O = hydrocarbons indicative of heavier fuels are present in sample and impacting the gasoline result (Farallon 2017b)
N1 = hydrocarbons in the diesel-range are impacting the oil result (Farallon 2017b)
U1 = the practical quantitation limit is elevated due to interferences present in the sample (Farallon 2017b)
F-03 = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-11 = The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
F-13 = The chromatographic pattern does not resemble the fuel standard used for quantitation.
F-15 = Results for diesel are estimated due to overlap from the reported oil result.
F-16 = Results for oil are estimated due to overlap from the reported diesel result.
F-20 = Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
S-02 = Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-06 = Surrogate recovery is outside of established control limits.

Table 4
Historical Groundwater Analytical Results - PAHs
Coleman Oil Site
Wenatchee, Washington

	Acenaphthene	Acenaphthylene	Anthracene	Benz [a] anthracene	Benzo [a] pyrene	Benzo [b] fluoranthene	Benzo [k] fluoranthene	Benzo (g,h,i) perylene	Chrysene	Dibenz [a,h] anthracene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup Level for Groundwater					**0.1**					
Field ID	**Date**									
MW21	4/26/2018	0.193	<0.0935	0.145	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
MW22	4/26/2018	113	<12.3	8.48	0.284	<0.0943	<0.0943	<0.0943	0.243	<0.0943
	8/30/2018	43.4	4.21	3.32	0.156	<0.0374	<0.0374	<0.0374	0.156	<0.0374
MW32	8/29/2018	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370

	Dibenzofuran	Fluoranthene	Fluorene	Indeno [1,2,3-cd] pyrene	1- Methyl-naphthalene	2-Methyl- naphthalene	Naphthalene	Phenanthrene	Pyrene	TEQ
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup Level for Groundwater							**160**			**0.1**
Field ID	**Date**									
MW21	4/26/2018	0.103	<0.0935	0.144	<0.0935	1.48	0.494	1.16	<0.0935	<0.0935	0.0706
MW22	4/26/2018	8.55	3.2	36.7	<0.0943	298	210	**692**	36.6	4.30	0.0968
	8/30/2018	3.34	1.49	14.0	<0.0374	94.2	92.2	**189**	13.7	2.43	0.0433
MW32	8/29/2018	<0.0370	<0.0370	0.0382	<0.0370	<0.0741	<0.0741	<0.0833	<0.0370	<0.0370	0.0279

Notes:
Red denotes concentration in excess of MTCA Method Cleanup Level for groundwater.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
< = less than method reporting limit shown
ug/L = micrograms per liter (parts per billion)
PAHs by EPA Method 8270D SIM
TEQ = Toxic Equivalent Concentration per Ecology Focus Sheet. One-half the detection limit used for non-detected concentrations.

Table 5
Groundwater Analytical Results - Geochemical Indicators
Coleman Oil Site
Wenatchee, Washington

		Field Parameters			Laboratory Analytical					Field Test
		Dissolved Oxygen	Redox Potential	pH	Nitrate	Sulfate	Alkalinity	Manganese	Methane	Ferrous Iron
		mg/L	mV	Unitless	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L
Field ID	**Date**									
BH01R	8/27/2019	0.30	-83.3	6.16	<0.05	0.50	435	9,780	2,100	5.5
BH-2	8/27/2019	0.37	-80.3	6.10	<0.05	1.41	431	4,410	2,200	4.0
BH-3	8/28/2019	0.29	-79.9	6.16	<0.05	6.78	619	1,570	1,500	6.5
RW-1	8/28/2019	0.92	-17	7.10	<0.05	18.3	487	52.8	340	0.0
MW01S	8/26/2019	0.18	117	6.07	0.75	78.4	185	589	21	0.0
MW03S	8/26/2019	0.18	17	6.44	<0.05	25.4	230	482	29	0.0
MW-6	8/26/2019	0.63	-196	6.42	<0.05	8.79	241	714	3,100	0.0
MW-8	8/26/2019	0.65	-87	6.75	<0.05	<0.1	375	3,370 J	8,100	4.5
MW-9R	8/27/2019	0.71	-21	6.70	<0.05	4.97	148	5,800	540	3.0
MW-10R	8/27/2019	0.71	0	6.80	<0.05	0.39	490	4,410 J	1,600	1.5
MW-11	8/26/2019	0.72	-92	6.78	<0.05	<0.1	334	2,030	6,300	6.5
MW12	8/26/2019	0.18	31.7	6.37	<0.05	39.5	175	130	7.3	0.0
MW13R	8/26/2019	0.54	-91	7.09	<0.05	50.6	333	2,160	200	0.0
MW14	8/26/2019	0.63	-90	6.83	<0.05	<0.1	414	1,890	1,400	0.0
MW15	8/26/2019	--	--	--	--	--	--	--	--	--
MW16	8/26/2019	1.69	85	6.55	2.0	22.2	306	91	<1	0.0
MW17	8/26/2019	0.18	-103.5	6.02	<0.05	0.32	418	3,450	4,100	3.5
MW18	8/26/2019	--	--	--	--	--	--	--	--	--
MW19	8/26/2019	--	--	--	--	--	--	--	--	--
MW20	8/28/2019	0.22	-37	5.97	<0.05	0.18	462	6,980	99	5.0
MW21	8/27/2019	1.03	-8	6.64	<0.05	22.8	468	3,450	1,700	2.0
MW23	8/26/2019	0.69	-117	6.29	<0.05	43.1	284	1,590	140	0.5
MW24	8/27/2019	1.01	-22	6.81	<0.05	15.2	450	1,330	640	3.0
MW25	8/27/2019	0.70	12	7.43	<0.05	20.5	396	330	3.1	0.0
MW26	8/27/2019	0.79	17	7.13	<0.05	14.0	487	810	20	2.0
MW27	8/28/2019	0.93	-36	6.90	<0.05	9.60	504	3,920	500	2.5
MW28	8/27/2019	0.22	-61.6	6.16	<0.05	2.39	472	10,700 J	2,100	4.5
MW29	8/27/2019p	--	--	--	--	--	--	--	--	--
MW30	8/27/2019	0.37	-149.4	6.28	<0.05	2.32	592	1,460	790	3.5
MW31	8/27/2019	0.39	-108.4	6.40	<0.25	63.8	578	413	230	2.5
MW32	8/26/2019	2.77	128.4	6.07	0.35	22.7	279	274	38	0.1

Notes:
Field parameters measured during sample collection using a YSI multi-parameter meter.
Nitrate analyzed by EPA Method 300.0.
Sulfate analyzed by EPA Method 300.0.
Manganese analyzed by EPA Method 200.8.
Alkalinity analyzed by Method SM3220-B.
Ferrous Iron by Hach test kit.
< = less than method reporting limit shown
--- = not analyzed. MW15, MW18, and MW19 not sampled due to lack of water in the well.
p = Product recorded in well. No sample collected.
J = estimated value - Matrix spike and or duplicate analysis was performed on this sample. % recovery or RPD for this analyte is outside laboratory control limits.

Table 6
Vertical Groundwater Gradients
Coleman Oil Site
Wenatchee, Washington

Location	Date	TOC	Total Depth	DTW	GWE	Mid-Point	Mid-Point Elevation	Mid-Point Elevation Difference	GWE Difference	Gradient (ft/ft)
MW-1	8/27/2018	658.01	35	12.17	645.84	23.59	634.43	-6.97	-0.60	0.086
MW-1	8/31/2018	658.01	35	12.20	645.81	23.60	634.41	-6.97	-0.60	0.086
MW-1	11/26/2018	658.01	35	11.36	646.65	23.18	634.83	-6.94	-0.65	0.094
MW-1	11/30/2018	658.01	35	11.38	646.63	23.19	634.82	-6.97	-0.60	0.086
MW-1	3/29/2019	658.01	35	9.68	646.63	22.34	635.67	-6.94	-0.60	0.087
MW-1	8/29/2019	658.01	35	11.69	646.63	23.35	634.67	-6.98	-0.60	0.086
MW01S	8/27/2018	657.54	19.99	12.30	645.24	16.15	641.40			
MW01S	8/31/2018	657.54	19.99	12.33	645.21	16.16	641.38			
MW01S	11/27/2018	657.54	19.99	11.54	646.00	15.77	641.78			
MW01S	11/30/2018	657.54	19.99	11.51	646.03	15.75	641.79			
MW01S	3/29/2019	657.54	19.99	9.88	646.03	14.94	642.61			
MW01S	8/29/2019	657.54	19.99	11.81	646.03	15.90	641.64			

Location	Date	TOC	Total Depth	DTW	GWE	Mid-Point	Mid-Point Elevation	Mid-Point Elevation Difference	GWE Difference	Gradient (ft/ft)
MW-3	8/27/2018	658.26	35	7.75	650.51	21.38	636.89	-7.62	-0.38	0.050
MW-3	8/31/2018	658.26	35	7.80	650.46	21.40	636.86	-7.63	-0.34	0.045
MW-3	11/26/2018	658.26	35	7.78	650.48	21.39	636.87	-7.73	-0.15	0.019
MW-3	11/30/2018	658.26	35	7.89	650.37	21.45	636.82	-7.74	-0.13	0.017
MW-3	3/29/2019	658.26	35	6.42	650.37	20.71	637.55	-7.36	-0.13	0.018
MW-3	8/29/2019	658.26	35	7.53	650.37	21.27	637.00	-7.66	-0.13	0.017
MW03S	8/27/2018	658.17	19.3	8.04	650.13	13.67	644.50			
MW03S	8/31/2018	658.17	19.3	8.05	650.12	13.68	644.50			
MW03S	11/26/2018	658.17	19.3	7.84	650.33	13.57	644.60			
MW03S	11/30/2018	658.17	19.3	7.93	650.24	13.62	644.56			
MW03S	3/29/2019	658.17	19.3	7.22	650.24	13.26	644.91			
MW03S	8/29/2019	658.17	19.3	7.72	650.24	13.51	644.66			

Notes:
All Units in feet

Table 7
List of Monitoring Wells and Required Laboratory Analysis
Coleman Oil Site
Wenatchee, Washington

Well ID	Location of Well	Total Depth (feet)	Required Laboratory Analyses
MW-1	Coleman Facility - South of USTs used for Cardlock	35.00	Discontinue Sampling per Ecology Approval[1]
MW01S	Coleman Facility - South of USTs used for Cardlock	19.99	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-2	Coleman Facility - North of USTs used for Cardlock	40.00	Discontinue Sampling per Ecology Approval[1]
MW-3	Coleman Facility - Southwestern corner of Tank Farm A	35.00	Discontinue Sampling per Ecology Approval[1]
MW03S	Coleman Facility - Southwestern corner of Tank Farm A	19.30	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-4	Coleman Facility ~ 30' North of MW-2	37.00	Discontinue Sampling per Ecology Approval[1]
MW-5	East of Worthen Street ~ 45' South and ~80' east of R99 release point	45.00	Discontinue Sampling per Ecology Approval[1]
MW-6	Coleman Facility ~ 20' North of R99 realese point	18.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-7	Coleman Facility ~ 13' North of former dry well	20.00	Discontinue Sampling per Ecology Approval[1]
MW-8	Coleman Facility - Northeast corner of former Storage Building	25.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW09R	Chehalis Street ~ 15' east of railroad	32.60	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW10R	East of Worthen Street ~ 410' north of R99 release point	33.59	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-11	Coleman Facility - North Central area	22.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW12	Coleman Facility - Southwestern corner of Site	19.52	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW13	Coleman Facility - in Footprint of Tank Farm B	19.80	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW14	Coleman Facility ~ 80' north of former Tank Farm B	20.02	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW15	East of Worthen Street ~ 20' north and 80' east of R99 release point	35.10	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW16	Chehalis Street ~ 18' east of railroad	29.15	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW17	Chehalis Street ~ 80' East of MW16	29.41	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW18	East of Worthen Street ~ 120' north North & ~ 80' east of R99 release p	34.65	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW19	In Worthen Street - ~40' North of Chehalis Street intersection	31.48	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW20	In Worthen Street - ~75' North of MW19 & ~ 30' west of RW-1	29.50	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW21	East of Worthen Street ~ 470' north of R99 release point	32.10	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW22	East of Worthen Street ~ 560' north of R99 release point	39.10	Discontinue Sampling per Ecology Approval[1]
MW23	Former Dry Well Location	22.04	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW24	East of Worthen Street ~ 435' north of R99 release point	34.25	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW25	East of Worthen Street ~ 390' north of R99 release point	32.96	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW26	East of Worthen Street ~ 360' north of R99 release point	32.52	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW27	East of Worthen Street ~ 330' north of R99 release point	38.74	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW28	East of Worthen Street ~ 300' north of R99 release point	38.74	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW29	East of Worthen Street ~ 255' north of R99 release point	39.11	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW30	East of Worthen Street ~ 235' north of R99 release point	39.79	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW31	East of Worthen Street ~ 195' north of R99 release point	39.28	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW32	Chehalis Street ~ 40' East of MW16	34.02	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH01R	East of Worthen Street ~ 280' north of R99 release point	40.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH-2	East of Worthen Street ~ 240' north of R99 release point	35.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH-3	East of Worthen Street ~ 340' north of R99 release point	30.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
RW-1	East of Worthen Street ~ 315' north of R99 release point	30.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)

Notes:
[1]Washington State Department of Ecology. *Ecology Comments on Supplemental Remedial Investigation Report* . August 16, 2018.

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FORMS

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW01S

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/26/19

Sample I.D.: MW01S-W Time: 1130
Field Duplicate I.D.: - Time: -
Personnel: CO

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 19.99 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 5-20'
Depth to product - ft
Depth to water 11.75 ft Intake Depth (BTOC) 15' Begin Purging Well: 1107
Casing volume 8.24 ft (H_2O) X 0.65 gal/ft = 5.36 gal. X 3 = 16.08 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1110	11.80		20.6	.817	0.38	6.06	113.7	2.48
1113	11.80		20.0	.817	0.41	6.05	115.7	1.31
1116	11.81	0.155	20.1	.818	0.26	6.06	116.0	0.89
1119	11.81		19.9	.321	0.22	6.07	116.5	0.91
1122	11.81		19.9	.823	0.18	6.07	117.0	1.01

Sample @ 1130

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	GX, BTEX, 125K 175
1 L amber	1	HCl	No 0.45 0.10	DX
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron Field kit: 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW035

Project Name: Coleman 0.7 Wenatchee
Hydrocon Project #: 2017-074
Date: 8/26/19

Sample I.D.: MW035 - W Time: 1040
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☒ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 19.30 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 4-19'
Depth to product - ft
Depth to water 7.70 ft Intake Depth (BTOC) 13' Begin Purging Well: 10:19
Casing volume 11.60 ft (H_2O) X 0.65 gal/ft = 7.54 gal. X 3 = 22.62 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1022	7.85		21.4	.454	1.04	6.44	-14.1	11.0
1025	7.95		20.6	.450	0.28	6.43	12.3	18.8
1028	8.00	0.165	20.5	.450	0.24	6.44	13.1	12.5
1031	8.07		20.4	.450	0.21	6.44	15.5	13.3
1034	8.13		20.4	.449	0.18	6.44	17.0	12.8

Sample @ 1040

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK175 DK
1 L amber	1	HCl	No 0.45 0.10	
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250ml poly	1	HNO3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron Field kit: 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW06

Project Name: Coleman 0.1
Hydrocon Project #: 2017-074
Date 8-26-19

Sample I.D. MW06-W Time: 1020
Field Duplicate I.D. MW100-W Time: 1020
Personnel: RM

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☑ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth _____ ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product — ft
Depth to water 10.90 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0955	11.91	100	19.75	0.590	1.46	6.58	-173	253
1000	11.91	11	18.40	0.596	0.78	6.49	-186	210
1005	11	11	18.41	0.470	0.64	6.46	-191	164
1010	11	11	18.39	0.439	0.63	6.42	-195	163
1015	11	11	18.42	0.439	0.63	6.42	-196	156

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW08

Project Name: Colony DM
Hydrocon Project #: 2017-079
Date 8-26-19

Sample I.D. MW08-W Time: 1400
Field Duplicate I.D. — Time: —
Personnel: DHH

WELL INFORMATION

Monument condition: ☐ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☐ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth _____ ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): _____
Depth to product ⟶ ft
Depth to water 16.02 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☐ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1335	16.10	100	18.42	0.670	1.03	6.75	-86	152
1340	11	11	18.55	0.671	0.73	6.76	-85	148
1345	11	11	18.58	0.671	0.69	6.78	-87	145
1350	11	11	18-	0.671	0.65	6.75	-87	142
~~1355~~	~~11~~	~~11~~						

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 4.5 mg/L

Hydro Con

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW09R

Project Name: Rulerwal | Sample I.D. MW09R-W | Time: 0750
Hydrocon Project #: 2019, 079 | Field Duplicate I.D. ____ | Time: ____
Date 8-17-19 | Personnel: ____

WELL INFORMATION

Monument condition: ☐ Good ☐ Needs repair ____ ☐ Water in Monument
Well cap condition: ☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☑ Odor ____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other ____
Comments ____

PURGING INFORMATION

Total well depth — ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): ____
Depth to product — ft
Depth to water 19.90 ft Intake Depth (BTOC) ____ Begin Purging Well: ____
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other ____
Bailer type: ____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other ____

FIELD PARAMETERS

Odor and/or Sheen: ____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0720	19.95	100	15.80	0.858	2.05	6.58	-4	132
0725	"	100	15.68	0.848	0.94	6.64	-13	128
0730	"	"	15.67	0.838	0.90	6.70	-18	127
0735	"	"	15.64	0.830	0.70	6.69	-20	126
0740	"	"	15.60	0.832	0.70	6.69	-21	126
0745	"	"	15.65	0.830	0.71	6.70	-21	126

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: ____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 3.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW102

Project Name: Coleman 001
Hydrocon Project #: 2017-074
Date: 8-27-19

Sample I.D. MW102-W Time: 1025
Field Duplicate I.D. _____ Time: _____
Personnel: _____

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments: Vaulted well w/ pump

PURGING INFORMATION

Total well depth — ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product — ft
Depth to water 25.31 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0955	~~25.52~~ 25.52	100	18.87	0.860	1.81	6.74	-2	204
1000	"	"	16.99	0.832	1.04	6.78	+1	178
1005	"	"	16.72	0.821	0.84	6.76	+1	172
1010	"	"	16.54	0.820	0.75	6.80	0	171
1015	"	"	16.56	0820	0.71	6.80	0	172

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 1.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW11

Project Name: Colony Oil
Hydrocon Project #: 2017-074
Date 8-26-19

Sample I.D. MW11-W Time: 1310
Field Duplicate I.D. - Time: -
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☐ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth _____ ft Bottom: ☑ Hard ☐ Soft ☐ Not measured Screen Interval(s): _____
Depth to product — ft
Depth to water 19.10 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☑ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1245	14.15	10	19.57	0.620	0.96	6.76	-89	124
1250	"	"	19.43	0.619	0.72	6.78	-92	127
1255	"	"	19.42	0.619	0.73	6.78	-92	124
1300	"	"	19.42	0.618	0.72	6.78	-92	123

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 6.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW12

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017.074
Date: 8/26/17

Sample I.D.: MW12-W Time: 1000
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☒ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 19.52 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 4-19'
Depth to product - ft
Depth to water 7.66 ft Intake Depth (BTOC) 13' Begin Purging Well: 0932
Casing volume 11.86 ft (H_2O) X 0.65 gal/ft = 7.71 gal. X 3 = 23.13 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0935	7.75		20.1	.584	2.32	6.35	40.9	9.18
0938	7.82	0.150	19.3	.530	0.42	6.41	44.1	2.34
0941	7.89		19.2	.510	0.30	6.43	37.8	1.61
0944	7.98		19.1	.492	0.25	6.41	29.3	1.41
0947	8.05		19.2	.486	0.20	6.40	27.5	1.95
0950	8.12		19.2	.480	0.18	6.32	31.7	1.33
			Sample @ 1000					

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, 25K 175
1 L amber	1	HCl	No 0.45 0.10	DX
250 ml poly	2	-	No 0.45 0.10	Nitratenite, Alk, Sulf,
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW13R

Project Name: Column 0.1
Hydrocon Project #: 2019-074
Date 8-26-19

Sample I.D. MW13R-W Time: 1130
Field Duplicate I.D. — Time: —
Personnel: RH/HP

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth _____ ft Bottom: ☑ Hard ☐ Soft ☐ Not measured Screen Interval(s): _____
Depth to product — ft
Depth to water 7.62 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1100	7.89	100	19.40	0.619	1.05	6.88	-81	150
1105	7.89	100	18.57	0.615	0.47	7.05	-87	142
1110	7.89	11	18.44	0.615	0.48	7.09	-89	140
1115	11	11	18.46	0.615	0.54	7.09	-91	139
1120	11	11	18.50	0.615	0.54	7.09	-91	139

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW14-W

Project Name: Colony 0.1 | Sample I.D. MW14-W | Time: 1215
Hydrocon Project #: 2017-074 | Field Duplicate I.D. — | Time:
Date 8-26-19 | Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth ____ ft Bottom: ☐ Hard ☑ Soft ☐ Not measured Screen Interval(s):
Depth to product — ft
Depth to water 8.20 ft Intake Depth (BTOC) Begin Purging Well:
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1150	8.33	100	20.18	0.676	1.76	6.93	-86	190
1155	"	"	19.26	0.668	0.83	6.86	-86	184
1200	"	"	18.76	0.663	0.66	6.83	-89	177
1205	"	"	18.61	0.663	0.62	6.83	-90	172
1210	"	"	18.55	0.665	0.63	6.83	-90	171

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron : 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW16

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/26/19

Sample I.D.: MW16-W Time: 1230
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth 29.15 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 9-29'
Depth to product - ft
Depth to water 9.82 ft Intake Depth (BTOC) 14' Begin Purging Well: 1157
Casing volume 19.33 ft (H_2O) X 0.65 gal/ft = 12.56 gal. X 3 = 37.68 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1200	9.95		20.1	.754	2.16	6.55	81.3	2.50
1203	10.04	0.145	19.0	.740	1.06	6.54	83.6	18.5
1206	10.12		18.9	.738	1.12	6.56	81.6	1.59
1209	10.19		18.9	.735	1.21	6.56	80.1	1.44
1212	10.24		18.9	.731	1.36	6.56	82.1	3.60
1215	10.30		19.0	.728	1.46	6.56	79.5	2.57
1218	10.36		19.1	.727	1.55	6.56	82.0	1.59
1221	10.41		19.0	.726	1.61	6.56	82.2	2.19
1224	10.45		18.9	.724	1.69	6.55	85.0	1.75
			Sample @ 1230					

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK 175
1L amber	1	HCl	No 0.45 0.10	DX
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron Field kit : 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW17W

Project Name:. Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date 8/26/19

Sample I.D. MW17-W Time: 1420
Field Duplicate I.D. MW101-W Time: 1430
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 29.41 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 9-29'
Depth to product - ft
Depth to water 14.47 ft Intake Depth (BTOC) 19' Begin Purging Well: 1356
Casing volume 14.94 ft (H_2O) X 0.65 gal/ft = 9.71 gal. X 3 = 29.13 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: heavy sheen w/ petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1359	14.51		19.8	.916	0.86	6.02	97.1	55.4
1402	14.52		19.3	.912	0.31	6.01	-97.8	50.6
1405	14.53	0.170	19.2	.911	0.23	6.02	-100.8	52.4
1408	14.53		18.9	.913	0.21	6.02	-102.6	47.7
1411	14.54		18.9	.913	0.18	6.02	-103.5	44.5

Sample @ 1420/1430

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: Algae in purge water; Trace product during purging

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VoA	5x2	HCl	No 0.45 0.10	Gx, BTEX, 125K 175 LVX
1 Lumber	1x2	HCl	No 0.45 0.10	
250ml poly	2x2	-	No 0.45 0.10	Nitrate, Alk, sulf
250ml poly	1x2	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 3.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW19

Project Name:. Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date

Sample I.D. ~~MW19-W~~ - Time:
Field Duplicate I.D. - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth 31.48 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): 11-31'
Depth to product - ft
Depth to water 30.45 ft Intake Depth (BTOC) 28' Begin Purging Well:
Casing volume ft (H_2O) X 0.65 gal/ft = gal. X 3 = gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☐ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)

No Sample

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK 175 DX
1 L amber	1	HCl	No 0.45 0.10	
250 ml poly	2	-	No 0.45 0.10	Nitrate, Alkalinity, Sulfates
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW20

Project Name: Coleman Oil Wentzville
Hydrocon Project #: 2017-074
Date: 8/28/17

Sample I.D.: MW20-W Time: 0720
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☒ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 29.50 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 9-29'
Depth to product - ft
Depth to water 25.02 ft Intake Depth (BTOC) 28' Begin Purging Well: 0649
Casing volume 4.48 ft (H_2O) X 0.65 gal/ft = 2.91 gal. X 3 = 8.73 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: Light petro odor / no sheen

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0654	26.20		16.7	.991	0.64	5.87	-16.6	24.8
0657	25.28		16.4	.998	0.35	5.93	-29.2	6.79
0700	25.33	0.135	16.3	.998	0.28	5.94	-33.0	6.47
0703	25.38		16.3	.997	0.24	5.96	-35.2	5.93
0706	25.42		16.3	.997	0.23	5.96	-36.6	5.87
0709	25.46		16.3	.997	0.22	5.97	-37.4	7.08
			Sample @ 0720					

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: Trace product on top water column during purge

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	6x, BTEX, RSK 175
1 L amber	1	HCl	No 0.45 0.10	DX
250 ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 5.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW21

Project Name: 2017-074
Hydrocon Project #: 2017-074
Date 8-27-19

Sample I.D. MW21-W Time: 0845
Field Duplicate I.D. — Time: ____
Personnel: RM

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor ____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other ____
Comments ____

PURGING INFORMATION

Total well depth ____ ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): ____
Depth to product — ft
Depth to water 20.92 ft Intake Depth (BTOC) ____ Begin Purging Well: ____
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other ____
Bailer type: ____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other ____

FIELD PARAMETERS

Odor and/or Sheen: ____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0820	20.97	100	16.94	0.813	1.94	6.71	-7	131
0825	"	"	16.95	0.812	1.18	6.64	-7	129
0830	"	"	16.81	0.813	1.07	6.64	-8	127
0835	"	"	16.80	0.812	1.03	6.64	-8	128

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: ____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 7.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW23

Project Name:. Coleman Oil
Hydrocon Project #: 2017-074
Date 8-26-19

Sample I.D. MW23-W Time: 0930
Field Duplicate I.D. — Time: ____
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☐ Not measured ____ ppm ☐ Odor ____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other ____
Comments ____

PURGING INFORMATION

Total well depth ____ ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): ____
Depth to product — ft
Depth to water 11.41 ft Intake Depth (BTOC) ____ Begin Purging Well: ____
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☑ Non-Dedicated Bladder Other ____
Bailer type: ____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other ____

FIELD PARAMETERS

Odor and/or Sheen: ____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0910	11.50	100	18.59	0.576	1.18	6.23	-118	136
0915	11.50	11	18.62	0.571	0.73	6.28	-120	136
0920	11.52	11	18.61	0.571	0.59	6.29	-118	135
0925	11	11	18.59	0.574	0.69	6.29	-117	132

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: ____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
VOA	5	HCL	No 0.45 0.10	6x BTEX
1L Amber	1	HCl	No 0.45 0.10	Dx
2 250mL Poly	2	—	No 0.45 0.10	Nitrate
250mL Poly	1	NitHCl	No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 0.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW24

Project Name: Coleman Oil
Hydrocon Project #: 2017-074
Date 8-27-19

Sample I.D. MW24-W Time: 0930
Field Duplicate I.D. _____ Time: _____
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth — ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): _____
Depth to product — ft
Depth to water 27.03 ft Intake Depth (BTOC) _____ Begin Purging Well: _____
Casing volume _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0905	27.10	100	16.94	0.884	1.89	6.88	-22	139
0910	"	"	16.83	0.886	1.06	6.82	-29	136
0915	"	"	16.80	0.884	1.01	6.81	-23	138
0920	"	"	16.73	0.884	1.01	6.81	-22	140

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 3.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW25

Project Name: Coleman oil
Hydrocon Project #: 2019-074
Date 8-27-19

Sample I.D. MW25-W Time: 1120
Field Duplicate I.D. — Time: —
Personnel:

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth ____ ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s):
Depth to product ____ ft
Depth to water ____ ft Intake Depth (BTOC) ____ Begin Purging Well:
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1055	25.31	100	20.92	0.756	2.48	7.13	+10	140
1100	"	"	16.95	0.758	0.88	7.41	+10	142
1105	"	"	16.94	0.755	0.78	7.43	+12	138
1110	"	"	16.97	0.755	0.80	7.43	+12	136

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 0.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW26

Project Name:. Coleman Oil
Hydrocon Project #: 2017-074
Date 8-27-19

Sample I.D. MW26-W Time: 1200
Field Duplicate I.D. — Time: ____
Personnel: RAM

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor ____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other ____
Comments ____

PURGING INFORMATION

Total well depth — ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): ____
Depth to product — ft
Depth to water 25.84 ft Intake Depth (BTOC) ____ Begin Purging Well: ____
Casing volume ____ ft (H_2O) X ____ gal/ft = ____ gal. X 3 = ____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other ____
Bailer type: ____ Water Disposal:: ☐ Drummed ☐ Remediation System ☐ Other ____

FIELD PARAMETERS

Odor and/or Sheen: ____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1135	25.95	100	19.77	0.931	1.79	7.17	+9	150
1140	"	"	17.00	0.868	0.94	7.18	+17	148
1145	"	"	17.35	0.880	0.77	7.13	+17	139
1150	"	"	17.32	0.860	0.79	7.13	+17	156
		"						

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: ____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 2.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW27

Project Name: Column 0.1
Hydrocon Project #: 247-074
Date: 8-28-19

Sample I.D. [redacted] MW27-W Time: 0730
Field Duplicate I.D. ~ Time:
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☐ Not measured ☐ ppm ☐ Odor
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s):
Depth to product — ft
Depth to water 29.04 ft Intake Depth (BTOC) Begin Purging Well:
Casing volume ft (H_2O) X gal/ft = gal. X 3 = gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0655	29.11	106	17.73	0.842	1.87	6.85	-23	107
0700	2-18	11	15.47	0.806	1.11	6.89	-30	111
0705	11	11	16.42	0.802	1.04	6.88	-35	110
0710	11	11	16.42	0.791	0.98	6.90	-37	106
0715	11	11	1636	0.747	0.93	6.90	-37	103
0720	11	11	16.36	0.745	0.93	0.90	-36	101

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 2.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW28

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017
Date: 8/27/19

Sample I.D.: MW28-W Time: 1300
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments: Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 38.74 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 13-38'
Depth to product - ft
Depth to water 25.32 ft Intake Depth (BTOC) 28' Begin Purging Well: 1230
Casing volume 13.42 ft (H_2O) X 0.65 gal/ft = 8.72 gal. X 3 = 26.16 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: v faint petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1233	25.50		17.6	.985	1.11	6.17	-66.1	44.9
1236	25.56		17.1	.981	0.48	6.15	-63.2	22.9
1239	25.63	0.140	16.8	.976	0.35	6.15	-62.1	16.8
1242	25.71		16.7	.977	0.29	6.15	-62.0	15.6
1245	25.73		16.6	.976	0.24	6.16	-61.8	12.2
1248	25.78		16.6	.975	0.22	6.16	-61.6	11.8
			Sample @ 1300					

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK 175
1 L amber	1	HCl	No 0.45 0.10	Dx
250 ml poly	2	-	No 0.45 0.10	Nitrate, Alk, SulF
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 4.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW29

Project Name:. Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date 8/27/19

Sample I.D. MW29-W Time: -
Field Duplicate I.D. - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 39.11 ft Bottom: ☒ Hard ☐ Soft ☐ Not measured Screen Interval(s): 14 - 39'
Depth to product 36.08 ft
Depth to water [redacted] ft Intake Depth (BTOC) 38' Begin Purging Well: 1059
Casing volume _____ ft (H_2O) X 0.65 gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☒ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1114			25.7	1.26	3.67	6.38	-100.9	
1129			25.3	[redacted]1.26	2.74	6.40	-103.5	

No Sample: .12' product in well

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

Hydro Con

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW30

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date 8/27/19

Sample I.D. MW30-W Time: 1020
Field Duplicate I.D. - Time: -
Personnel: CO

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other
Comments Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 39.79 ft Bottom: ☐ Hard ☒ Soft ☐ Not measured Screen Interval(s): 14-39'
Depth to product - ft
Depth to water 34.92 ft Intake Depth (BTOC) 39' Begin Purging Well: 0955
Casing volume 4.87 ft (H_2O) X 0.65 gal/ft = 3.17 gal. X 3 = 9.51 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☒ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: organic odor/no Sheen

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0958	35.44		16.9	1.18	2.54	6.31	-108.0	OR
1001	35.49		16.4	1.17	0.46	6.28	-132.5	OR
1004	35.59	0.175	16.5	1.18	0.42	6.28	-140.7	OR
1007	35.67		16.7	1.19	0.36	6.27	-146.4	902
1010	35.72		16.2	1.18	0.37	6.28	-149.4	735

Sample @ 1020

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: Sediment @ bottom of well temporarily disturbed OR = overrange

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK 175
1 L amber	1	HCl	No 0.45 0.10	Dx
250 ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1	HNO_3	No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 3.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW31

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/27/19

Sample I.D.: MW31-W Time: 0810
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 39.28 ft Bottom: ☒ Hard ☐ Soft ☐ Not measured Screen Interval(s): 15-40'
Depth to product - ft
Depth to water 33.74 ft Intake Depth (BTOC) 39' Begin Purging Well: 0745
Casing volume 5.54 ft (H_2O) X 0.65 gal/ft = 3.60 gal. X 3 = 10.80 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☒ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: -

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0748	33.78		16.2	1.23	2.95	6.43	-74.8	151
0751	33.84		15.6	1.28	0.70	6.40	-92.6	76.3
0754	33.92		15.7	1.29	0.55	6.40	-100.2	65.8
0757	34.01	0.160	15.6	1.28	0.42	6.40	-105.0	49.2
0800	34.10		15.4	1.28	0.39	6.40	-108.4	38.0

Sample @ 0810

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, 125K 175
1 L amber	1	HCl	No 0.45 0.10	DX
250 ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 2.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW32

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/26/19

Sample I.D.: MW32-W Time: 1320
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments: Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 34.02 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 14-34'
Depth to product - ft
Depth to water 12.48 ft Intake Depth (BTOC) 17' Begin Purging Well: 1255
Casing volume 21.54 ft (H_2O) X 0.65 gal/ft = 14.00 gal. X 3 = 42.00 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1258	12.62		19.1	.825	3.83	6.07	122.1	4.60
1301	12.71		18.3	.821	2.99	6.06	126.7	3.02
1304	12.80	0.155	18.3	.819	2.90	6.07	127.9	4.89
1307	12.90		18.3	.820	2.84	6.07	128.2	3.28
1310	12.99		18.4	.819	2.77	6.07	128.4	3.71
			Sample @		1320			

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK175
1 Lamber	1	HCl	No 0.45 0.10	DX
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 0.1 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: BH01-W

Project Name:. Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date 8/27/19

Sample I.D. BH01-W Time: 1350
Field Duplicate I.D. MW102-W Time: 1400
Personnel: CO

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other
Comments Vaulted well w/ system pump

PURGING INFORMATION

Total well depth 32.82 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 17 - 32'
Depth to product - ft
Depth to water 25.12 ft Intake Depth (BTOC) 27' Begin Purging Well: 1322
Casing volume 7.70 ft (H_2O) X 0.65 gal/ft = 5.00 gal. X 3 = 15.00 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: mod petro odor w/ sheen

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1326	25.21		21.7	.947	0.63	6.27	-88.0	17.4
1329	25.24		21.1	.943	0.45	6.24	-84.3	11.1
1332	25.28	0.135	21.1	.939	0.35	6.18	-83.4	9.97
1335	25.31		21.0	.941	0.32	6.17	-83.6	8.82
1338	25.33		21.0	.939	0.30	6.16	-83.3	8.75

Sample @ 1350

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5x2	HCl	No 0.45 0.10	Gx, BTEX, RSK 175
1L amber	1x2	HCl	No 0.45 0.10	Dx
250 ml poly	2x2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1x2	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 5.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: B1to2

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/27/19

Sample I.D.: B1to2-W Time: 0910
Field Duplicate I.D.: ~ Time: ~
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth 35.00 ft Bottom: ☒ Hard ☐ Soft ☐ Not measured Screen Interval(s): 15-35'
Depth to product - ft
Depth to water 28.55 ft Intake Depth (BTOC) 34.5' Begin Purging Well: 0843
Casing volume 6.45 ft (H_2O) X 0.16 gal/ft = 1.03 gal. X 3 = 3.09 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☒ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: mod odor w/ light sheen

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0845	28.76		15.7	.950	1.89	6.14	-72.9	363
0848	28.92		16.2	.929	0.52	6.10	-70.4	121
0851	29.12		16.3	.924	0.44	6.10	-72.8	74.7
0854	29.35	0.175	16.3	.917	0.39	6.10	-75.3	60.1
0857	29.52		16.2	.913	0.36	6.10	-77.7	46.6
0900	29.45		16.2	.911	0.37	6.10	-80.3	35.5
			Sample @		0910			

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	Gx, BTEX, RSK 175
1L amber	1	HCl	No 0.45 0.10	Dx
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 4.0 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: BH03

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 8/28/17

Sample I.D.: BH03-W Time: 0815
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 30.00 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 15-30'
Depth to product ~~NAPL~~ - ft
Depth to water 23.04 ft Intake Depth (BTOC) 27' Begin Purging Well: 0748
Casing volume 6.96 ft (H_2O) X 0.16 gal/ft = 1.11 gal. X 3 = 3.33 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0752	22.41		16.2	1.29	1.29	6.19	-65.9	15.9
0755	22.54		15.9	1.29	0.56	6.16	-70.1	14.1
0758	22.65		16.0	1.29	0.36	6.16	-73.4	10.4
0801	22.81	0.105	16.1	1.29	0.32	6.16	-77.1	9.57
0804	22.95		16.1	1.29	0.29	6.16	-79.9	
		Sample @ 0815						

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: layer of algae on top of water column

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	5	HCl	No 0.45 0.10	GX, BTEX, RSK 175
1 L amber	1	HCl	No 0.45 0.10	DX
250ml poly	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250ml poly	1	HNO_3	No 0.45 0.10	Mn
			No 0.45 0.10	

Sampling Comments: Ferrous Iron: 6.5 mg/L

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: RW01

Project Name: Coleman 0-1 | Sample I.D. RW01-W | Time: 0815
Hydrocon Project #: 2017-074 | Field Duplicate I.D. — | Time:
Date 8-28-19 | Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☑ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☐ 4-inch ☐ 6-inch ☑ Other 3
Comments

PURGING INFORMATION

Total well depth — ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s):
Depth to product — ft
Depth to water 26.35 ft Intake Depth (BTOC) Begin Purging Well:
Casing volume ft (H_2O) X gal/ft = gal. X 3 = gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0750	26.50	100	17.42	0.548	1.67	7.16	-18	96
0750	26.65	"	17.65	0.550	1.10	7.11	-18	97.5
0800	26.92	"	17.82	0.518	0.97	7.11	-18	98.8
0805	27.04	"	17.85	0.529	0.92	7.10	-17	101

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: Iron 0 mg/L

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Apex Laboratories, LLC

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

Wednesday, September 18, 2019

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

RE: A9H0906 - 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 A9H0906, which was received by the laboratory on 8/29/2019 at 5:35:00PM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	5.3 degC	Cooler #2	1.4 degC
Cooler #3	3.3 degC	Cooler #4	5.6 degC

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

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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

Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01S-W	A9H0906-01	Water	08/26/19 11:30	08/29/19 17:35
MW03S-W	A9H0906-02	Water	08/26/19 10:40	08/29/19 17:35
MW06-W	A9H0906-03	Water	08/26/19 10:20	08/29/19 17:35
MW08-W	A9H0906-04	Water	08/26/19 14:00	08/29/19 17:35
MW09R-W	A9H0906-05	Water	08/27/19 07:50	08/29/19 17:35
MW11-W	A9H0906-06	Water	08/26/19 13:10	08/29/19 17:35
MW12-W	A9H0906-07	Water	08/26/19 10:00	08/29/19 17:35
MW13R-W	A9H0906-08	Water	08/26/19 11:30	08/29/19 17:35
MW14-W	A9H0906-09	Water	08/26/19 12:15	08/29/19 17:35
MW16-W	A9H0906-10	Water	08/26/19 12:30	08/29/19 17:35
MW17-W	A9H0906-11	Water	08/26/19 14:20	08/29/19 17:35
MW20-W	A9H0906-12	Water	08/28/19 07:20	08/29/19 17:35
MW21-W	A9H0906-13	Water	08/27/19 08:45	08/29/19 17:35
MW23-W	A9H0906-14	Water	08/26/19 09:30	08/29/19 17:35
MW24-W	A9H0906-15	Water	08/27/19 09:30	08/29/19 17:35
MW25-W	A9H0906-16	Water	08/27/19 11:20	08/29/19 17:35
MW26-W	A9H0906-17	Water	08/27/19 12:00	08/29/19 17:35
MW27-W	A9H0906-18	Water	08/28/19 07:30	08/29/19 17:35
MW28-W	A9H0906-19	Water	08/27/19 13:00	08/29/19 17:35
MW30-W	A9H0906-20	Water	08/27/19 10:20	08/29/19 17:35
MW31-W	A9H0906-21	Water	08/27/19 08:10	08/29/19 17:35
MW32-W	A9H0906-22	Water	08/26/19 13:20	08/29/19 17:35
BH01-W	A9H0906-23	Water	08/27/19 13:50	08/29/19 17:35
BH02-W	A9H0906-24	Water	08/27/19 09:10	08/29/19 17:35
BH03-W	A9H0906-25	Water	08/28/19 08:15	08/29/19 17:35
RW01-W	A9H0906-26	Water	08/28/19 08:15	08/29/19 17:35
MW100-W	A9H0906-27	Water	08/26/19 10:20	08/29/19 17:35
MW101-W	A9H0906-28	Water	08/26/19 14:30	08/29/19 17:35
MW102-W	A9H0906-29	Water	08/27/19 14:00	08/29/19 17:35
190827Blank-W	A9H0906-30	Water	08/27/19 07:15	08/29/19 17:35
MW10R-W	A9H0906-31	Water	08/27/19 10:25	08/29/19 17:35
Trip Blank	A9H0906-32	Water	08/26/19 00:00	08/29/19 17:35

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received

ANALYTICAL CASE NARRATIVE

Work Order: A9H0906

Preservation Nonconformance: Analyses Cancelled
A temperature excursion occurred during sample storage. Due to a refrigeration malfunction, samples in work order A9H0906 were stored for Alkalinity by SM 2320 B-2011 and Sulfate by EPA 300.0 analysis at room temperature for an unknown period of time.
At client request, these tests were not performed.
Autumn R. Fetty
Technical Compliance Officer
09/09/19

Subcontract

This report is not complete without the attached subcontract laboratory report for RSK 175 from Air Technology.

Apex Laboratories

Lisa Domenighini, Client Services Manager

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**269**	---	74.8	ug/L	1	08/30/19 23:48	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	150	ug/L	1	08/30/19 23:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*	*1*	*08/30/19 23:48*	*NWTPH-Dx*	
MW03S-W (A9H0906-02)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**114**	---	74.8	ug/L	1	08/31/19 00:08	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/31/19 00:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 90 %*		*Limits: 50-150 %*	*1*	*08/31/19 00:08*	*NWTPH-Dx*	
MW06-W (A9H0906-03)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**1200**	---	74.8	ug/L	1	08/31/19 00:28	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 00:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 89 %*		*Limits: 50-150 %*	*1*	*08/31/19 00:28*	*NWTPH-Dx*	
MW08-W (A9H0906-04)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**1320**	---	75.5	ug/L	1	08/31/19 00:48	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	151	ug/L	1	08/31/19 00:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 86 %*		*Limits: 50-150 %*	*1*	*08/31/19 00:48*	*NWTPH-Dx*	
MW09R-W (A9H0906-05)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**5880**	---	74.8	ug/L	1	08/31/19 01:08	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 56 %*		*Limits: 50-150 %*	*1*	*08/31/19 01:08*	*NWTPH-Dx*	
MW11-W (A9H0906-06)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**1060**	---	75.5	ug/L	1	08/31/19 01:28	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	151	ug/L	1	08/31/19 01:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 92 %*		*Limits: 50-150 %*	*1*	*08/31/19 01:28*	*NWTPH-Dx*	
MW12-W (A9H0906-07RE1)				**Matrix: Water**		**Batch: 9081504**		
Diesel	ND	---	74.8	ug/L	1	09/03/19 09:04	NWTPH-Dx	
Oil	ND	---	150	ug/L	1	09/03/19 09:04	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 81 %*		*Limits: 50-150 %*	*1*	*09/03/19 09:04*	*NWTPH-Dx*	
MW13R-W (A9H0906-08)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**2180**	---	75.5	ug/L	1	08/31/19 02:08	NWTPH-Dx	**F-11, F-20**

Apex Laboratories

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW13R-W (A9H0906-08)				**Matrix: Water**		**Batch: 9081504**		
Oil	ND	---	151	ug/L	1	08/31/19 02:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 65 %*		*Limits: 50-150 %*	*1*	*08/31/19 02:08*	*NWTPH-Dx*	
MW14-W (A9H0906-09)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**1280**	---	75.5	ug/L	1	08/31/19 02:27	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	151	ug/L	1	08/31/19 02:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 86 %*		*Limits: 50-150 %*	*1*	*08/31/19 02:27*	*NWTPH-Dx*	
MW16-W (A9H0906-10)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**349**	---	74.8	ug/L	1	08/31/19 02:47	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/31/19 02:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*08/31/19 02:47*	*NWTPH-Dx*	
MW17-W (A9H0906-11)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**6730**	---	74.8	ug/L	1	08/31/19 03:07	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 03:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*		*Limits: 50-150 %*	*1*	*08/31/19 03:07*	*NWTPH-Dx*	
MW20-W (A9H0906-12)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**870**	---	74.8	ug/L	1	08/31/19 03:27	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	150	ug/L	1	08/31/19 03:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 86 %*		*Limits: 50-150 %*	*1*	*08/31/19 03:27*	*NWTPH-Dx*	
MW21-W (A9H0906-13)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**605**	---	74.8	ug/L	1	08/31/19 05:08	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	150	ug/L	1	08/31/19 05:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 98 %*		*Limits: 50-150 %*	*1*	*08/31/19 05:08*	*NWTPH-Dx*	
MW23-W (A9H0906-14)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**580**	---	74.8	ug/L	1	08/31/19 05:28	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*		*Limits: 50-150 %*	*1*	*08/31/19 05:28*	*NWTPH-Dx*	
MW24-W (A9H0906-15)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**560**	---	74.8	ug/L	1	08/31/19 05:48	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	150	ug/L	1	08/31/19 05:48	NWTPH-Dx	

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW24-W (A9H0906-15)				**Matrix: Water**		**Batch: 9081504**		
Surrogate: o-Terphenyl (Surr)		*Recovery: 92 %*	*Limits: 50-150 %*		*1*	*08/31/19 05:48*	*NWTPH-Dx*	
MW25-W (A9H0906-16RE1)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**262**	---	74.8	ug/L	1	09/03/19 23:47	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	09/03/19 23:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 71 %*	*Limits: 50-150 %*		*1*	*09/03/19 23:47*	*NWTPH-Dx*	
MW26-W (A9H0906-17RE1)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**266**	---	74.8	ug/L	1	09/04/19 00:11	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	09/04/19 00:11	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*	*Limits: 50-150 %*		*1*	*09/04/19 00:11*	*NWTPH-Dx*	
MW27-W (A9H0906-18)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**467**	---	74.8	ug/L	1	08/30/19 22:48	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/30/19 22:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 81 %*	*Limits: 50-150 %*		*1*	*08/30/19 22:48*	*NWTPH-Dx*	
MW28-W (A9H0906-19)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**1010**	---	74.8	ug/L	1	08/30/19 23:08	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/30/19 23:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*	*Limits: 50-150 %*		*1*	*08/30/19 23:08*	*NWTPH-Dx*	
MW30-W (A9H0906-20)				**Matrix: Water**		**Batch: 9081504**		
Diesel	**557**	---	74.8	ug/L	1	08/30/19 23:28	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/30/19 23:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 78 %*	*Limits: 50-150 %*		*1*	*08/30/19 23:28*	*NWTPH-Dx*	
MW31-W (A9H0906-21)				**Matrix: Water**		**Batch: 9081518**		
Diesel	ND	---	74.8	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Oil	ND	---	150	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*	*Limits: 50-150 %*		*1*	*08/31/19 01:08*	*NWTPH-Dx*	
MW32-W (A9H0906-22)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**302**	---	74.8	ug/L	1	08/31/19 01:28	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/31/19 01:28	NWTPH-Dx	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW32-W (A9H0906-22)				**Matrix: Water**		**Batch: 9081518**		
Surrogate: o-Terphenyl (Surr)			*Recovery: 85 %*	*Limits: 50-150 %*	*1*	*08/31/19 01:28*	*NWTPH-Dx*	
BH01-W (A9H0906-23)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**1910**	---	74.8	ug/L	1	08/31/19 01:48	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 01:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 53 %*	*Limits: 50-150 %*	*1*	*08/31/19 01:48*	*NWTPH-Dx*	
BH02-W (A9H0906-24)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**6150**	---	74.8	ug/L	1	08/31/19 02:08	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 02:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 81 %*	*Limits: 50-150 %*	*1*	*08/31/19 02:08*	*NWTPH-Dx*	
BH03-W (A9H0906-25)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**816**	---	74.8	ug/L	1	08/31/19 02:27	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 02:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 80 %*	*Limits: 50-150 %*	*1*	*08/31/19 02:27*	*NWTPH-Dx*	
RW01-W (A9H0906-26)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**116**	---	74.8	ug/L	1	08/31/19 02:47	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	08/31/19 02:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 85 %*	*Limits: 50-150 %*	*1*	*08/31/19 02:47*	*NWTPH-Dx*	
MW100-W (A9H0906-27)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**1320**	---	74.8	ug/L	1	08/31/19 03:07	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 03:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 88 %*	*Limits: 50-150 %*	*1*	*08/31/19 03:07*	*NWTPH-Dx*	
MW101-W (A9H0906-28)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**5800**	---	74.8	ug/L	1	08/31/19 03:27	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 03:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 66 %*	*Limits: 50-150 %*	*1*	*08/31/19 03:27*	*NWTPH-Dx*	
MW102-W (A9H0906-29)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**2300**	---	74.8	ug/L	1	08/31/19 03:47	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	08/31/19 03:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: 67 %*	*Limits: 50-150 %*	*1*	*08/31/19 03:47*	*NWTPH-Dx*	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				**Matrix: Water**		**Batch: 9081518**		
Diesel	ND	---	74.8	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Oil	ND	---	150	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 95 %*		*Limits: 50-150 %*	*1*	*08/31/19 05:28*	*NWTPH-Dx*	
MW10R-W (A9H0906-31)				**Matrix: Water**		**Batch: 9081518**		
Diesel	**3620**	---	755	ug/L	10	08/31/19 10:08	NWTPH-Dx	**F-13**
Oil	ND	---	1510	ug/L	10	08/31/19 10:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 85 %*		*Limits: 50-150 %*	*10*	*08/31/19 10:08*	*NWTPH-Dx*	*S-05*

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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 15:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*	*Limits: 50-150 %*		*1*	*08/30/19 15:31*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*107 %*	*50-150 %*		*1*	*08/30/19 15:31*	*NWTPH-Gx (MS)*	
MW03S-W (A9H0906-02)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 15:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*	*Limits: 50-150 %*		*1*	*08/30/19 15:58*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*111 %*	*50-150 %*		*1*	*08/30/19 15:58*	*NWTPH-Gx (MS)*	
MW06-W (A9H0906-03RE1)				**Matrix: Water**		**Batch: 9090422**		
Gasoline Range Organics	**356**	---	100	ug/L	1	09/03/19 18:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 106 %*	*Limits: 50-150 %*		*1*	*09/03/19 18:40*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*98 %*	*50-150 %*		*1*	*09/03/19 18:40*	*NWTPH-Gx (MS)*	
MW08-W (A9H0906-04RE1)				**Matrix: Water**		**Batch: 9090422**		
Gasoline Range Organics	**899**	---	100	ug/L	1	09/03/19 19:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 105 %*	*Limits: 50-150 %*		*1*	*09/03/19 19:07*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*09/03/19 19:07*	*NWTPH-Gx (MS)*	
MW09R-W (A9H0906-05RE1)				**Matrix: Water**		**Batch: 9090422**		
Gasoline Range Organics	**1080**	---	100	ug/L	1	09/03/19 19:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 105 %*	*Limits: 50-150 %*		*1*	*09/03/19 19:34*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*97 %*	*50-150 %*		*1*	*09/03/19 19:34*	*NWTPH-Gx (MS)*	
MW11-W (A9H0906-06RE1)				**Matrix: Water**		**Batch: 9090422**		
Gasoline Range Organics	**1230**	---	100	ug/L	1	09/03/19 20:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 105 %*	*Limits: 50-150 %*		*1*	*09/03/19 20:02*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*09/03/19 20:02*	*NWTPH-Gx (MS)*	
MW12-W (A9H0906-07)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 18:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*	*Limits: 50-150 %*		*1*	*08/30/19 18:40*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*109 %*	*50-150 %*		*1*	*08/30/19 18:40*	*NWTPH-Gx (MS)*	
MW13R-W (A9H0906-08)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	**966**	---	100	ug/L	1	08/30/19 19:07	NWTPH-Gx (MS)	

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW13R-W (A9H0906-08)				**Matrix: Water**		**Batch: 9081530**		
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	*1*	*08/30/19 19:07*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*08/30/19 19:07*	*NWTPH-Gx (MS)*	
MW14-W (A9H0906-09)				**Matrix: Water**		**Batch: 9081530**		**R-04**
Gasoline Range Organics	**3510**	---	1000	ug/L	10	08/30/19 19:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 93 %*	*Limits: 50-150 %*	*1*	*08/30/19 19:34*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*08/30/19 19:34*	*NWTPH-Gx (MS)*	
MW16-W (A9H0906-10)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 20:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*08/30/19 20:01*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*08/30/19 20:01*	*NWTPH-Gx (MS)*	
MW17-W (A9H0906-11RE1)				**Matrix: Water**		**Batch: 9090422**		
Gasoline Range Organics	**655**	---	100	ug/L	1	09/03/19 20:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 107 %*	*Limits: 50-150 %*	*1*	*09/03/19 20:29*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*117 %*	*50-150 %*	*1*	*09/03/19 20:29*	*NWTPH-Gx (MS)*	
MW20-W (A9H0906-12)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	**588**	---	100	ug/L	1	08/30/19 21:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	*1*	*08/30/19 21:22*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*	*1*	*08/30/19 21:22*	*NWTPH-Gx (MS)*	
MW21-W (A9H0906-13)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	**453**	---	100	ug/L	1	08/30/19 21:49	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*08/30/19 21:49*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*08/30/19 21:49*	*NWTPH-Gx (MS)*	
MW23-W (A9H0906-14)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 22:16	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*08/30/19 22:16*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*08/30/19 22:16*	*NWTPH-Gx (MS)*	
MW24-W (A9H0906-15)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 22:43	NWTPH-Gx (MS)	

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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW24-W (A9H0906-15)				**Matrix: Water**		**Batch: 9081530**		
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	*1*	*08/30/19 22:43*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*08/30/19 22:43*	*NWTPH-Gx (MS)*	
MW25-W (A9H0906-16)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 23:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*08/30/19 23:10*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*08/30/19 23:10*	*NWTPH-Gx (MS)*	
MW26-W (A9H0906-17)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 23:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	*1*	*08/30/19 23:37*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*08/30/19 23:37*	*NWTPH-Gx (MS)*	
MW27-W (A9H0906-18)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/31/19 00:30	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	*1*	*08/31/19 00:30*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*08/31/19 00:30*	*NWTPH-Gx (MS)*	
MW28-W (A9H0906-19)				**Matrix: Water**		**Batch: 9081530**		
Gasoline Range Organics	**302**	---	100	ug/L	1	08/31/19 00:03	NWTPH-Gx (MS)	**F-03**
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 105 %*	*Limits: 50-150 %*	*1*	*08/31/19 00:03*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*08/31/19 00:03*	*NWTPH-Gx (MS)*	
MW30-W (A9H0906-20)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 17:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 107 %*	*Limits: 50-150 %*	*1*	*08/30/19 17:22*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*08/30/19 17:22*	*NWTPH-Gx (MS)*	
MW31-W (A9H0906-21)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 18:16	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 107 %*	*Limits: 50-150 %*	*1*	*08/30/19 18:16*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*08/30/19 18:16*	*NWTPH-Gx (MS)*	
MW32-W (A9H0906-22)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 18:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 102 %*	*Limits: 50-150 %*	*1*	*08/30/19 18:43*	*NWTPH-Gx (MS)*	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW32-W (A9H0906-22)				**Matrix: Water**		**Batch: 9081511**		
Surrogate: 1,4-Difluorobenzene (Sur)		*Recovery: 103 %*	*Limits: 50-150 %*		*1*	*08/30/19 18:43*	*NWTPH-Gx (MS)*	
BH01-W (A9H0906-23)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	**518**	---	100	ug/L	1	08/30/19 19:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 110 %*	*Limits: 50-150 %*		*1*	*08/30/19 19:10*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*105 %*	*50-150 %*	*1*	*08/30/19 19:10*	*NWTPH-Gx (MS)*	
BH02-W (A9H0906-24)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	**295**	---	100	ug/L	1	08/30/19 19:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 107 %*	*Limits: 50-150 %*		*1*	*08/30/19 19:37*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*102 %*	*50-150 %*	*1*	*08/30/19 19:37*	*NWTPH-Gx (MS)*	
BH03-W (A9H0906-25)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	**121**	---	100	ug/L	1	08/30/19 20:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*	*Limits: 50-150 %*		*1*	*08/30/19 20:04*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*104 %*	*50-150 %*	*1*	*08/30/19 20:04*	*NWTPH-Gx (MS)*	
RW01-W (A9H0906-26)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 20:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 104 %*	*Limits: 50-150 %*		*1*	*08/30/19 20:31*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*08/30/19 20:31*	*NWTPH-Gx (MS)*	
MW100-W (A9H0906-27)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	**334**	---	100	ug/L	1	08/30/19 20:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*	*Limits: 50-150 %*		*1*	*08/30/19 20:58*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*102 %*	*50-150 %*	*1*	*08/30/19 20:58*	*NWTPH-Gx (MS)*	
MW101-W (A9H0906-28RE1)				**Matrix: Water**		**Batch: 9090423**		
Gasoline Range Organics	**535**	---	100	ug/L	1	09/03/19 13:21	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 104 %*	*Limits: 50-150 %*		*1*	*09/03/19 13:21*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*99 %*	*50-150 %*	*1*	*09/03/19 13:21*	*NWTPH-Gx (MS)*	
MW102-W (A9H0906-29RE1)				**Matrix: Water**		**Batch: 9090423**		
Gasoline Range Organics	**472**	---	100	ug/L	1	09/03/19 13:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 109 %*	*Limits: 50-150 %*		*1*	*09/03/19 13:48*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*102 %*	*50-150 %*	*1*	*09/03/19 13:48*	*NWTPH-Gx (MS)*	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				**Matrix: Water**		**Batch: 9081511**		
Gasoline Range Organics	ND	---	100	ug/L	1	08/30/19 15:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*105 %*	*Limits: 50-150 %*	*1*	*08/30/19 15:59*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*105 %*	*50-150 %*	*1*	*08/30/19 15:59*	*NWTPH-Gx (MS)*	
MW10R-W (A9H0906-31RE1)				**Matrix: Water**		**Batch: 9090423**		
Gasoline Range Organics	**1270**	---	100	ug/L	1	09/03/19 14:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*108 %*	*Limits: 50-150 %*	*1*	*09/03/19 14:15*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*100 %*	*50-150 %*	*1*	*09/03/19 14:15*	*NWTPH-Gx (MS)*	

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 15:31	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 15:31	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 15:31	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 15:31	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*08/30/19 15:31*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*08/30/19 15:31*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*08/30/19 15:31*	*EPA 8260C*	
MW03S-W (A9H0906-02)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 15:58	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 15:58	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 15:58	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 15:58	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*08/30/19 15:58*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*08/30/19 15:58*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*08/30/19 15:58*	*EPA 8260C*	
MW06-W (A9H0906-03RE1)				**Matrix: Water**		**Batch: 9090422**		
Benzene	ND	---	0.200	ug/L	1	09/03/19 18:40	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 18:40	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 18:40	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 18:40	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*09/03/19 18:40*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*09/03/19 18:40*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*09/03/19 18:40*	*EPA 8260C*	
MW08-W (A9H0906-04RE1)				**Matrix: Water**		**Batch: 9090422**		
Benzene	**0.853**	---	0.200	ug/L	1	09/03/19 19:07	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 19:07	EPA 8260C	
Ethylbenzene	**0.504**	---	0.500	ug/L	1	09/03/19 19:07	EPA 8260C	
Xylenes, total	**2.17**	---	1.50	ug/L	1	09/03/19 19:07	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*09/03/19 19:07*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*09/03/19 19:07*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*09/03/19 19:07*	*EPA 8260C*	
MW09R-W (A9H0906-05RE1)				**Matrix: Water**		**Batch: 9090422**		
Benzene	ND	---	0.200	ug/L	1	09/03/19 19:34	EPA 8260C	

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW09R-W (A9H0906-05RE1)				**Matrix: Water**		**Batch: 9090422**		
Toluene	ND	---	1.00	ug/L	1	09/03/19 19:34	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 19:34	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 19:34	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*09/03/19 19:34*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*09/03/19 19:34*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*09/03/19 19:34*	*EPA 8260C*	
MW11-W (A9H0906-06RE1)				**Matrix: Water**		**Batch: 9090422**		
Benzene	ND	---	0.200	ug/L	1	09/03/19 20:02	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 20:02	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 20:02	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 20:02	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*104 %*	*Limits: 80-120 %*	*1*	*09/03/19 20:02*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*09/03/19 20:02*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*09/03/19 20:02*	*EPA 8260C*	
MW12-W (A9H0906-07)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 18:40	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 18:40	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 18:40	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 18:40	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*104 %*	*Limits: 80-120 %*	*1*	*08/30/19 18:40*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 18:40*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*08/30/19 18:40*	*EPA 8260C*	
MW13R-W (A9H0906-08)				**Matrix: Water**		**Batch: 9081530**		
Benzene	**96.4**	---	0.200	ug/L	1	08/30/19 19:07	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 19:07	EPA 8260C	
Ethylbenzene	**8.52**	---	0.500	ug/L	1	08/30/19 19:07	EPA 8260C	
Xylenes, total	**28.5**	---	1.50	ug/L	1	08/30/19 19:07	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*08/30/19 19:07*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 19:07*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 19:07*	*EPA 8260C*	
MW14-W (A9H0906-09)				**Matrix: Water**		**Batch: 9081530**		**R-04**
Benzene	**44.2**	---	2.00	ug/L	10	08/30/19 19:34	EPA 8260C	
Toluene	ND	---	10.0	ug/L	10	08/30/19 19:34	EPA 8260C	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW14-W (A9H0906-09)				**Matrix: Water**		**Batch: 9081530**		**R-04**
Ethylbenzene	**5.95**	---	5.00	ug/L	10	08/30/19 19:34	EPA 8260C	
Xylenes, total	ND	---	15.0	ug/L	10	08/30/19 19:34	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*08/30/19 19:34*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*08/30/19 19:34*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*08/30/19 19:34*	*EPA 8260C*	
MW16-W (A9H0906-10)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 20:01	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 20:01	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 20:01	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 20:01	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*08/30/19 20:01*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 20:01*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*08/30/19 20:01*	*EPA 8260C*	
MW17-W (A9H0906-11RE1)				**Matrix: Water**		**Batch: 9090422**		
Benzene	**2.72**	---	0.200	ug/L	1	09/03/19 20:29	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 20:29	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 20:29	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 20:29	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*104 %*	*Limits: 80-120 %*	*1*	*09/03/19 20:29*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*09/03/19 20:29*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*106 %*	*80-120 %*	*1*	*09/03/19 20:29*	*EPA 8260C*	
MW20-W (A9H0906-12)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 21:22	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 21:22	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 21:22	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 21:22	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*08/30/19 21:22*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*08/30/19 21:22*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*08/30/19 21:22*	*EPA 8260C*	
MW21-W (A9H0906-13)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 21:49	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 21:49	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 21:49	EPA 8260C	

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ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW21-W (A9H0906-13)				**Matrix: Water**		**Batch: 9081530**		
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 21:49	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 103 %*		*Limits: 80-120 %*	*1*	*08/30/19 21:49*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 21:49*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*08/30/19 21:49*	*EPA 8260C*	
MW23-W (A9H0906-14)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 22:16	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 22:16	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 22:16	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 22:16	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 104 %*		*Limits: 80-120 %*	*1*	*08/30/19 22:16*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 22:16*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*08/30/19 22:16*	*EPA 8260C*	
MW24-W (A9H0906-15)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 22:43	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 22:43	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 22:43	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 22:43	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*	*1*	*08/30/19 22:43*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*08/30/19 22:43*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 22:43*	*EPA 8260C*	
MW25-W (A9H0906-16)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 23:10	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 23:10	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 23:10	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 23:10	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 107 %*		*Limits: 80-120 %*	*1*	*08/30/19 23:10*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 23:10*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*08/30/19 23:10*	*EPA 8260C*	
MW26-W (A9H0906-17)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 23:37	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 23:37	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 23:37	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 23:37	EPA 8260C	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW26-W (A9H0906-17)				**Matrix: Water**		**Batch: 9081530**		
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits: 80-120 %*	*1*	*08/30/19 23:37*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/30/19 23:37*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*08/30/19 23:37*	*EPA 8260C*	
MW27-W (A9H0906-18)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/31/19 00:30	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/31/19 00:30	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/31/19 00:30	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/31/19 00:30	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*08/31/19 00:30*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*08/31/19 00:30*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*08/31/19 00:30*	*EPA 8260C*	
MW28-W (A9H0906-19)				**Matrix: Water**		**Batch: 9081530**		
Benzene	ND	---	0.200	ug/L	1	08/31/19 00:03	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/31/19 00:03	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/31/19 00:03	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/31/19 00:03	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*08/31/19 00:03*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*08/31/19 00:03*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*08/31/19 00:03*	*EPA 8260C*	
MW30-W (A9H0906-20)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 17:22	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 17:22	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 17:22	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 17:22	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*08/30/19 17:22*	*EPA 8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*08/30/19 17:22*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 17:22*	*EPA 8260C*	
MW31-W (A9H0906-21)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 18:16	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 18:16	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 18:16	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 18:16	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*08/30/19 18:16*	*EPA 8260C*	

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Apex Laboratories, LLC

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW31-W (A9H0906-21)				**Matrix: Water**		**Batch: 9081511**		
Surrogate: Toluene-d8 (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*08/30/19 18:16*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*95 %*	*80-120 %*	*1*	*08/30/19 18:16*	*EPA 8260C*	
MW32-W (A9H0906-22)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 18:43	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 18:43	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 18:43	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 18:43	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*08/30/19 18:43*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 18:43*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*96 %*	*80-120 %*	*1*	*08/30/19 18:43*	*EPA 8260C*	
BH01-W (A9H0906-23)				**Matrix: Water**		**Batch: 9081511**		
Benzene	**0.240**	---	0.200	ug/L	1	08/30/19 19:10	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 19:10	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 19:10	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 19:10	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*08/30/19 19:10*	*EPA 8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*08/30/19 19:10*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*08/30/19 19:10*	*EPA 8260C*	
BH02-W (A9H0906-24)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 19:37	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 19:37	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 19:37	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 19:37	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*08/30/19 19:37*	*EPA 8260C*	
Toluene-d8 (Surr)			*95 %*	*80-120 %*	*1*	*08/30/19 19:37*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*08/30/19 19:37*	*EPA 8260C*	
BH03-W (A9H0906-25)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 20:04	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 20:04	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 20:04	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 20:04	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*08/30/19 20:04*	*EPA 8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*08/30/19 20:04*	*EPA 8260C*	

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BH03-W (A9H0906-25)				**Matrix: Water**		**Batch: 9081511**		
Surrogate: 4-Bromofluorobenzene (Surr)		*Recovery: 97 %*	*Limits: 80-120 %*		*1*	*08/30/19 20:04*	*EPA 8260C*	
RW01-W (A9H0906-26)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 20:31	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 20:31	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 20:31	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 20:31	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*	*Limits: 80-120 %*		*1*	*08/30/19 20:31*	*EPA 8260C*	
Toluene-d8 (Surr)		*97 %*	*80-120 %*		*1*	*08/30/19 20:31*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*96 %*	*80-120 %*		*1*	*08/30/19 20:31*	*EPA 8260C*	
MW100-W (A9H0906-27)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 20:58	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 20:58	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 20:58	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 20:58	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*	*Limits: 80-120 %*		*1*	*08/30/19 20:58*	*EPA 8260C*	
Toluene-d8 (Surr)		*96 %*	*80-120 %*		*1*	*08/30/19 20:58*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*98 %*	*80-120 %*		*1*	*08/30/19 20:58*	*EPA 8260C*	
MW101-W (A9H0906-28RE1)				**Matrix: Water**		**Batch: 9090423**		
Benzene	**2.43**	---	0.200	ug/L	1	09/03/19 13:21	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 13:21	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 13:21	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 13:21	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 103 %*	*Limits: 80-120 %*		*1*	*09/03/19 13:21*	*EPA 8260C*	
Toluene-d8 (Surr)		*95 %*	*80-120 %*		*1*	*09/03/19 13:21*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*98 %*	*80-120 %*		*1*	*09/03/19 13:21*	*EPA 8260C*	
MW102-W (A9H0906-29RE1)				**Matrix: Water**		**Batch: 9090423**		
Benzene	**0.240**	---	0.200	ug/L	1	09/03/19 13:48	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 13:48	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/03/19 13:48	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/03/19 13:48	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 103 %*	*Limits: 80-120 %*		*1*	*09/03/19 13:48*	*EPA 8260C*	
Toluene-d8 (Surr)		*96 %*	*80-120 %*		*1*	*09/03/19 13:48*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*97 %*	*80-120 %*		*1*	*09/03/19 13:48*	*EPA 8260C*	

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				**Matrix: Water**		**Batch: 9081511**		
Benzene	ND	---	0.200	ug/L	1	08/30/19 15:59	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	08/30/19 15:59	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	08/30/19 15:59	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	08/30/19 15:59	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*08/30/19 15:59*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 15:59*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*08/30/19 15:59*	*EPA 8260C*	
MW10R-W (A9H0906-31RE1)				**Matrix: Water**		**Batch: 9090423**		
Benzene	ND	---	0.200	ug/L	1	09/03/19 14:15	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/03/19 14:15	EPA 8260C	
Ethylbenzene	**1.44**	---	0.500	ug/L	1	09/03/19 14:15	EPA 8260C	
Xylenes, total	**3.06**	---	1.50	ug/L	1	09/03/19 14:15	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*09/03/19 14:15*	*EPA 8260C*	
Toluene-d8 (Surr)			*95 %*	*80-120 %*	*1*	*09/03/19 14:15*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*09/03/19 14:15*	*EPA 8260C*	
Trip Blank (A9H0906-32)				**Matrix: Water**		**Batch: 9090809**		**H-01**
Benzene	ND	---	0.200	ug/L	1	09/13/19 12:28	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	09/13/19 12:28	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	09/13/19 12:28	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	09/13/19 12:28	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*09/13/19 12:28*	*EPA 8260C*	
Toluene-d8 (Surr)			*106 %*	*80-120 %*	*1*	*09/13/19 12:28*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*09/13/19 12:28*	*EPA 8260C*	

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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**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				**Matrix: Water**				
Batch: 9081505								
Manganese	**589**	---	1.00	ug/L	1	09/03/19 20:57	EPA 200.8	
MW03S-W (A9H0906-02)				**Matrix: Water**				
Batch: 9081505								
Manganese	**482**	---	1.00	ug/L	1	09/03/19 21:02	EPA 200.8	
MW06-W (A9H0906-03)				**Matrix: Water**				
Batch: 9081505								
Manganese	**714**	---	1.00	ug/L	1	09/03/19 21:07	EPA 200.8	
MW08-W (A9H0906-04RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**3370**	---	50.0	ug/L	50	09/04/19 18:54	EPA 200.8	**Q-42**
MW09R-W (A9H0906-05RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**5800**	---	50.0	ug/L	50	09/04/19 19:08	EPA 200.8	
MW11-W (A9H0906-06)				**Matrix: Water**				
Batch: 9081505								
Manganese	**2030**	---	1.00	ug/L	1	09/03/19 21:41	EPA 200.8	
MW12-W (A9H0906-07)				**Matrix: Water**				
Batch: 9081505								
Manganese	**130**	---	1.00	ug/L	1	09/03/19 21:46	EPA 200.8	
MW13R-W (A9H0906-08)				**Matrix: Water**				
Batch: 9081505								
Manganese	**2160**	---	1.00	ug/L	1	09/03/19 21:51	EPA 200.8	
MW14-W (A9H0906-09)				**Matrix: Water**				
Batch: 9081505								
Manganese	**1890**	---	1.00	ug/L	1	09/03/19 21:55	EPA 200.8	

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW16-W (A9H0906-10)				**Matrix: Water**				
Batch: 9081505								
Manganese	**91.0**	---	1.00	ug/L	1	09/03/19 22:00	EPA 200.8	
MW17-W (A9H0906-11RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**3450**	---	50.0	ug/L	50	09/04/19 19:12	EPA 200.8	
MW20-W (A9H0906-12RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**6980**	---	50.0	ug/L	50	09/04/19 19:17	EPA 200.8	
MW21-W (A9H0906-13RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**3450**	---	50.0	ug/L	50	09/04/19 19:22	EPA 200.8	
MW23-W (A9H0906-14)				**Matrix: Water**				
Batch: 9081505								
Manganese	**1590**	---	1.00	ug/L	1	09/03/19 22:30	EPA 200.8	
MW24-W (A9H0906-15)				**Matrix: Water**				
Batch: 9081505								
Manganese	**1330**	---	1.00	ug/L	1	09/03/19 22:34	EPA 200.8	
MW25-W (A9H0906-16)				**Matrix: Water**				
Batch: 9081505								
Manganese	**330**	---	1.00	ug/L	1	09/03/19 22:39	EPA 200.8	
MW26-W (A9H0906-17)				**Matrix: Water**				
Batch: 9081505								
Manganese	**810**	---	1.00	ug/L	1	09/03/19 22:44	EPA 200.8	
MW27-W (A9H0906-18RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**3920**	---	50.0	ug/L	50	09/04/19 19:35	EPA 200.8	

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW28-W (A9H0906-19RE1)				**Matrix: Water**				
Batch: 9081505								
Manganese	**10700**	---	50.0	ug/L	50	09/04/19 19:40	EPA 200.8	**Q-42**
MW30-W (A9H0906-20)				**Matrix: Water**				
Batch: 9081522								
Manganese	**1460**	---	1.00	ug/L	1	09/03/19 23:23	EPA 200.8	
MW31-W (A9H0906-21)				**Matrix: Water**				
Batch: 9081522								
Manganese	**413**	---	1.00	ug/L	1	09/03/19 23:28	EPA 200.8	
MW32-W (A9H0906-22)				**Matrix: Water**				
Batch: 9081522								
Manganese	**274**	---	1.00	ug/L	1	09/03/19 23:32	EPA 200.8	
BH01-W (A9H0906-23RE1)				**Matrix: Water**				
Batch: 9081522								
Manganese	**9780**	---	50.0	ug/L	50	09/04/19 19:49	EPA 200.8	**Q-42**
BH02-W (A9H0906-24RE1)				**Matrix: Water**				
Batch: 9081522								
Manganese	**4410**	---	50.0	ug/L	50	09/04/19 20:03	EPA 200.8	
BH03-W (A9H0906-25)				**Matrix: Water**				
Batch: 9081522								
Manganese	**1570**	---	1.00	ug/L	1	09/03/19 23:57	EPA 200.8	
RW01-W (A9H0906-26)				**Matrix: Water**				
Batch: 9081522								
Manganese	**52.8**	---	1.00	ug/L	1	09/04/19 00:02	EPA 200.8	
MW100-W (A9H0906-27)				**Matrix: Water**				
Batch: 9081522								
Manganese	**691**	---	1.00	ug/L	1	09/04/19 00:16	EPA 200.8	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW101-W (A9H0906-28RE1)				**Matrix: Water**				
Batch: 9081522								
Manganese	**3460**	---	50.0	ug/L	50	09/04/19 20:08	EPA 200.8	
MW102-W (A9H0906-29RE1)				**Matrix: Water**				
Batch: 9081522								
Manganese	**9680**	---	50.0	ug/L	50	09/04/19 20:12	EPA 200.8	
MW10R-W (A9H0906-31RE1)				**Matrix: Water**				
Batch: 9081522								
Manganese	**4410**	---	50.0	ug/L	50	09/04/19 20:17	EPA 200.8	**Q-42**

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081504 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (9081504-BLK1)		Prepared: 08/30/19 06:56		Analyzed: 08/30/19 22:48								
NWTPH-Dx												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 96 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (9081504-BS1)		Prepared: 08/30/19 06:56		Analyzed: 08/30/19 23:08								
NWTPH-Dx												
Diesel	425	---	80.0	ug/L	1	500	---	85	58 - 115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 106 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (9081504-BSD1)		Prepared: 08/30/19 06:56		Analyzed: 08/30/19 23:28								**Q-19**
NWTPH-Dx												
Diesel	387	---	80.0	ug/L	1	500	---	77	58 - 115%	9	20%	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*		*Dilution: 1x*						
Batch 9081518 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (9081518-BLK1)		Prepared: 08/30/19 10:29		Analyzed: 08/31/19 00:08								
NWTPH-Dx												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 96 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (9081518-BS1)		Prepared: 08/30/19 10:29		Analyzed: 08/31/19 00:28								
NWTPH-Dx												
Diesel	354	---	80.0	ug/L	1	500	---	71	58 - 115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (9081518-BSD1)		Prepared: 08/30/19 10:29		Analyzed: 08/31/19 00:48								**Q-19**
NWTPH-Dx												
Diesel	374	---	80.0	ug/L	1	500	---	75	58 - 115%	6	20%	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*		*Dilution: 1x*						

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B									Water			
Blank (9081511-BLK1)		Prepared: 08/30/19 12:00		Analyzed: 08/30/19 15:32								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*106 %*		*50-150 %*			*"*					
LCS (9081511-BS2)		Prepared: 08/30/19 12:00		Analyzed: 08/30/19 15:04								
NWTPH-Gx (MS)												
Gasoline Range Organics	513	---	100	ug/L	1	500	---	103	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*99 %*		*50-150 %*			*"*					
Duplicate (9081511-DUP1)		Prepared: 08/30/19 15:05		Analyzed: 08/30/19 17:49								
QC Source Sample: MW30-W (A9H0906-20)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	ND	---	---	---	**30%**	Q-05
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*105 %*		*50-150 %*			*"*					
Duplicate (9081511-DUP2)		Prepared: 08/30/19 15:05		Analyzed: 08/30/19 22:19								
QC Source Sample: MW102-W (A9H0906-29)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	1000	ug/L	10	---	ND	---	---	---	**30%**	Q-17
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 106 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*103 %*		*50-150 %*			*"*					

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081530 - EPA 5030B									Water			
Blank (9081530-BLK1)		Prepared: 08/30/19 13:43		Analyzed: 08/30/19 15:04								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 95 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*110 %*		*50-150 %*			*"*					
LCS (9081530-BS2)		Prepared: 08/30/19 13:43		Analyzed: 08/30/19 14:37								
NWTPH-Gx (MS)												
Gasoline Range Organics	465	---	100	ug/L	1	500	---	93	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*104 %*		*50-150 %*			*"*					
Duplicate (9081530-DUP1)		Prepared: 08/30/19 13:43		Analyzed: 08/30/19 16:52								
QC Source Sample: MW06-W (A9H0906-03)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	1000	ug/L	10	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*111 %*		*50-150 %*			*"*					
Duplicate (9081530-DUP2)		Prepared: 08/30/19 13:43		Analyzed: 08/30/19 20:55								
QC Source Sample: MW17-W (A9H0906-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	1000	ug/L	10	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*110 %*		*50-150 %*			*"*					

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090422 - EPA 5030B									Water			
Blank (9090422-BLK1)		Prepared: 09/03/19 09:00		Analyzed: 09/03/19 12:48								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*95 %*		*50-150 %*			*"*					
LCS (9090422-BS1)		Prepared: 09/03/19 09:00		Analyzed: 09/03/19 11:27								
NWTPH-Gx (MS)												
Gasoline Range Organics	539	---	100	ug/L	1	500	---	108	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 104 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*117 %*		*50-150 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090423 - EPA 5030B									Water			
Blank (9090423-BLK1)		Prepared: 09/03/19 10:00		Analyzed: 09/03/19 12:27								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 103 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*103 %*		*50-150 %*			*"*					
LCS (9090423-BS2)		Prepared: 09/03/19 10:00		Analyzed: 09/03/19 12:00								
NWTPH-Gx (MS)												
Gasoline Range Organics	476	---	100	ug/L	1	500	---	95	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*96 %*		*50-150 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B												**Water**
Blank (9081511-BLK1)		Prepared: 08/30/19 12:00 Analyzed: 08/30/19 15:32										
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 107 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*98 %*		*80-120 %*			*"*					
LCS (9081511-BS1)		Prepared: 08/30/19 12:00 Analyzed: 08/30/19 14:37										
EPA 8260C												
Benzene	20.9	---	0.200	ug/L	1	20.0	---	105	80 - 120%	---	---	
Toluene	19.3	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
Ethylbenzene	20.2	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Xylenes, total	59.3	---	1.50	ug/L	1	60.0	---	99	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*96 %*		*80-120 %*			*"*					
Duplicate (9081511-DUP1)		Prepared: 08/30/19 15:05 Analyzed: 08/30/19 17:49										
QC Source Sample: MW30-W (A9H0906-20)												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 107 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*96 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*80-120 %*			*"*					
Duplicate (9081511-DUP2)		Prepared: 08/30/19 15:05 Analyzed: 08/30/19 22:19										
QC Source Sample: MW102-W (A9H0906-29)												
EPA 8260C												

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B							**Water**					
Duplicate (9081511-DUP2)		Prepared: 08/30/19 15:05		Analyzed: 08/30/19 22:19								
QC Source Sample: MW102-W (A9H0906-29)												
Benzene	ND	---	2.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	ND	---	15.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*80-120 %*			*"*					
Matrix Spike (9081511-MS1)		Prepared: 08/30/19 15:05		Analyzed: 08/30/19 23:13								
QC Source Sample: MW10R-W (A9H0906-31)												
EPA 8260C												
Benzene	227	---	2.00	ug/L	10	200	ND	114	79 - 120%	---	---	
Toluene	211	---	10.0	ug/L	10	200	ND	106	80 - 121%	---	---	
Ethylbenzene	226	---	5.00	ug/L	10	200	ND	113	79 - 121%	---	---	
Xylenes, total	659	---	15.0	ug/L	10	600	ND	110	79 - 121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*95 %*		*80-120 %*			*"*					

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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**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081530 - EPA 5030B												**Water**
Blank (9081530-BLK1)		Prepared: 08/30/19 13:43 Analyzed: 08/30/19 15:04										
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*104 %*		*80-120 %*			*"*					
LCS (9081530-BS1)		Prepared: 08/30/19 13:43 Analyzed: 08/30/19 14:10										
EPA 8260C												
Benzene	21.6	---	0.200	ug/L	1	20.0	---	108	80 - 120%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Ethylbenzene	21.0	---	0.500	ug/L	1	20.0	---	105	80 - 120%	---	---	
Xylenes, total	64.7	---	1.50	ug/L	1	60.0	---	108	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*95 %*		*80-120 %*			*"*					
Duplicate (9081530-DUP1)		Prepared: 08/30/19 13:43 Analyzed: 08/30/19 16:52										
QC Source Sample: MW06-W (A9H0906-03)												
EPA 8260C												
Benzene	ND	---	2.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	ND	---	15.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*102 %*		*80-120 %*			*"*					
Duplicate (9081530-DUP2)		Prepared: 08/30/19 13:43 Analyzed: 08/30/19 20:55										
QC Source Sample: MW17-W (A9H0906-11)												
EPA 8260C												

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Lisa Domenighini, Client Services Manager

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081530 - EPA 5030B												**Water**
Duplicate (9081530-DUP2)		Prepared: 08/30/19 13:43		Analyzed: 08/30/19 20:55								
QC Source Sample: MW17-W (A9H0906-11)												
Benzene	ND	---	2.00	ug/L	10	---	2.23	---	---	***	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	ND	---	15.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*99 %*		*80-120 %*			*"*				
Matrix Spike (9081530-MS1)		Prepared: 08/30/19 13:43		Analyzed: 08/31/19 00:57								
QC Source Sample: MW27-W (A9H0906-18)												
EPA 8260C												
Benzene	22.8	---	0.200	ug/L	1	20.0	ND	114	79 - 120%	---	---	
Toluene	20.7	---	1.00	ug/L	1	20.0	ND	103	80 - 121%	---	---	
Ethylbenzene	21.3	---	0.500	ug/L	1	20.0	ND	106	79 - 121%	---	---	
Xylenes, total	65.3	---	1.50	ug/L	1	60.0	ND	109	79 - 121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*100 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*96 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090422 - EPA 5030B							**Water**					
Blank (9090422-BLK1)		Prepared: 09/03/19 09:00		Analyzed: 09/03/19 12:48								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*104 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*105 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				
LCS (9090422-BS2)		Prepared: 09/03/19 09:00		Analyzed: 09/03/19 11:54								
EPA 8260C												
Benzene	21.8	---	0.200	ug/L	1	20.0	---	109	80 - 120%	---	---	
Toluene	18.9	---	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
Ethylbenzene	18.0	---	0.500	ug/L	1	20.0	---	90	80 - 120%	---	---	
Xylenes, total	53.2	---	1.50	ug/L	1	60.0	---	89	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*101 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*103 %*		*80-120 %*			*"*				

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090423 - EPA 5030B							**Water**					
Blank (9090423-BLK1)		Prepared: 09/03/19 10:00		Analyzed: 09/03/19 12:27								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*80-120 %*			*"*					
LCS (9090423-BS1)		Prepared: 09/03/19 10:00		Analyzed: 09/03/19 11:33								
EPA 8260C												
Benzene	19.4	---	0.200	ug/L	1	20.0	---	97	80 - 120%	---	---	
Toluene	18.3	---	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Ethylbenzene	19.5	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Xylenes, total	57.3	---	1.50	ug/L	1	60.0	---	95	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 98 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*80-120 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090809 - EPA 5030B							**Water**					
Blank (9090809-BLK1)		Prepared: 09/13/19 09:00		Analyzed: 09/13/19 12:01								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*107 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*98 %*		*80-120 %*			*"*					
LCS (9090809-BS1)		Prepared: 09/13/19 09:00		Analyzed: 09/13/19 11:07								
EPA 8260C												
Benzene	20.0	---	0.200	ug/L	1	20.0	---	100	80 - 120%	---	---	
Toluene	19.9	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
Ethylbenzene	20.9	---	0.500	ug/L	1	20.0	---	104	80 - 120%	---	---	
Xylenes, total	63.3	---	1.50	ug/L	1	60.0	---	106	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 97 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*91 %*		*80-120 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081505 - EPA 3015A									Water			
Blank (9081505-BLK1)		Prepared: 08/30/19 07:33		Analyzed: 09/03/19 20:47								
EPA 200.8												
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (9081505-BS1)		Prepared: 08/30/19 07:33		Analyzed: 09/03/19 20:52								
EPA 200.8												
Manganese	56.6	---	1.00	ug/L	1	55.6	---	102	85 - 115%	---	---	
Duplicate (9081505-DUP2)		Prepared: 08/30/19 07:33		Analyzed: 09/04/19 18:59								
QC Source Sample: MW08-W (A9H0906-04RE1)												
EPA 200.8												
Manganese	**3180**	---	50.0	ug/L	50	---	3370	---	---	6	20%	Q-16
Matrix Spike (9081505-MS3)		Prepared: 08/30/19 07:33		Analyzed: 09/04/19 19:03								
QC Source Sample: MW08-W (A9H0906-04RE1)												
EPA 200.8												
Manganese	3340	---	50.0	ug/L	50	55.6	3370	**-41**	**70 - 130%**	---	---	Q-03, Q-16
Matrix Spike (9081505-MS4)		Prepared: 08/30/19 07:33		Analyzed: 09/04/19 19:45								
QC Source Sample: MW28-W (A9H0906-19RE1)												
EPA 200.8												
Manganese	10700	---	50.0	ug/L	50	55.6	10700	**-69**	**70 - 130%**	---	---	Q-03, Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081522 - EPA 3015A							**Water**					
Blank (9081522-BLK2)		Prepared: 08/30/19 10:43		Analyzed: 09/04/19 18:40								
EPA 200.8												
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (9081522-BS1)		Prepared: 08/30/19 10:43		Analyzed: 09/03/19 23:18								
EPA 200.8												
Manganese	53.6	---	1.00	ug/L	1	55.6	---	96	85 - 115%	---	---	
Duplicate (9081522-DUP2)		Prepared: 08/30/19 10:43		Analyzed: 09/04/19 19:54								
QC Source Sample: BH01-W (A9H0906-23RE1)												
EPA 200.8												
Manganese	**9690**	---	50.0	ug/L	50	---	9780	---	---	1	20%	Q-16
Matrix Spike (9081522-MS3)		Prepared: 08/30/19 10:43		Analyzed: 09/04/19 19:59								
QC Source Sample: BH01-W (A9H0906-23RE1)												
EPA 200.8												
Manganese	9460	---	50.0	ug/L	50	55.6	9780	**-583**	**70 - 130%**	---	---	Q-03, Q-16
Matrix Spike (9081522-MS4)		Prepared: 08/30/19 10:43		Analyzed: 09/04/19 20:31								
QC Source Sample: MW10R-W (A9H0906-31RE1)												
EPA 200.8												
Manganese	4530	---	50.0	ug/L	50	55.6	4410	**230**	**70 - 130%**	---	---	Q-03, Q-16

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9081504							
A9H0906-01	Water	NWTPH-Dx	08/26/19 11:30	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
A9H0906-02	Water	NWTPH-Dx	08/26/19 10:40	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
A9H0906-03	Water	NWTPH-Dx	08/26/19 10:20	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
A9H0906-04	Water	NWTPH-Dx	08/26/19 14:00	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
A9H0906-05	Water	NWTPH-Dx	08/27/19 07:50	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
A9H0906-06	Water	NWTPH-Dx	08/26/19 13:10	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
A9H0906-07RE1	Water	NWTPH-Dx	08/26/19 10:00	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
A9H0906-08	Water	NWTPH-Dx	08/26/19 11:30	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
A9H0906-09	Water	NWTPH-Dx	08/26/19 12:15	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
A9H0906-10	Water	NWTPH-Dx	08/26/19 12:30	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-11	Water	NWTPH-Dx	08/26/19 14:20	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-12	Water	NWTPH-Dx	08/28/19 07:20	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-13	Water	NWTPH-Dx	08/27/19 08:45	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-14	Water	NWTPH-Dx	08/26/19 09:30	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-15	Water	NWTPH-Dx	08/27/19 09:30	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-16RE1	Water	NWTPH-Dx	08/27/19 11:20	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-17RE1	Water	NWTPH-Dx	08/27/19 12:00	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-18	Water	NWTPH-Dx	08/28/19 07:30	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-19	Water	NWTPH-Dx	08/27/19 13:00	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
A9H0906-20	Water	NWTPH-Dx	08/27/19 10:20	08/30/19 07:05	1070mL/2mL	1000mL/2mL	0.94
Batch: 9081518							
A9H0906-21	Water	NWTPH-Dx	08/27/19 08:10	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-22	Water	NWTPH-Dx	08/26/19 13:20	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-23	Water	NWTPH-Dx	08/27/19 13:50	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-24	Water	NWTPH-Dx	08/27/19 09:10	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-25	Water	NWTPH-Dx	08/28/19 08:15	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-26	Water	NWTPH-Dx	08/28/19 08:15	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-27	Water	NWTPH-Dx	08/26/19 10:20	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-28	Water	NWTPH-Dx	08/26/19 14:30	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-29	Water	NWTPH-Dx	08/27/19 14:00	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
A9H0906-30	Water	NWTPH-Dx	08/27/19 07:15	08/30/19 12:46	1070mL/2mL	1000mL/2mL	0.94
A9H0906-31	Water	NWTPH-Dx	08/27/19 10:25	08/30/19 12:46	1060mL/2mL	1000mL/2mL	0.94

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

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

SAMPLE PREPARATION INFORMATION

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

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9081511							
A9H0906-20	Water	NWTPH-Gx (MS)	08/27/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-21	Water	NWTPH-Gx (MS)	08/27/19 08:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-22	Water	NWTPH-Gx (MS)	08/26/19 13:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-23	Water	NWTPH-Gx (MS)	08/27/19 13:50	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-24	Water	NWTPH-Gx (MS)	08/27/19 09:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-25	Water	NWTPH-Gx (MS)	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-26	Water	NWTPH-Gx (MS)	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-27	Water	NWTPH-Gx (MS)	08/26/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-30	Water	NWTPH-Gx (MS)	08/27/19 07:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
Batch: 9081530							
A9H0906-01	Water	NWTPH-Gx (MS)	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-02	Water	NWTPH-Gx (MS)	08/26/19 10:40	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-07	Water	NWTPH-Gx (MS)	08/26/19 10:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-08	Water	NWTPH-Gx (MS)	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-09	Water	NWTPH-Gx (MS)	08/26/19 12:15	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-10	Water	NWTPH-Gx (MS)	08/26/19 12:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-12	Water	NWTPH-Gx (MS)	08/28/19 07:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-13	Water	NWTPH-Gx (MS)	08/27/19 08:45	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-14	Water	NWTPH-Gx (MS)	08/26/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-15	Water	NWTPH-Gx (MS)	08/27/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-16	Water	NWTPH-Gx (MS)	08/27/19 11:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-17	Water	NWTPH-Gx (MS)	08/27/19 12:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-18	Water	NWTPH-Gx (MS)	08/28/19 07:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-19	Water	NWTPH-Gx (MS)	08/27/19 13:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
Batch: 9090422							
A9H0906-03RE1	Water	NWTPH-Gx (MS)	08/26/19 10:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-04RE1	Water	NWTPH-Gx (MS)	08/26/19 14:00	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-05RE1	Water	NWTPH-Gx (MS)	08/27/19 07:50	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-06RE1	Water	NWTPH-Gx (MS)	08/26/19 13:10	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-11RE1	Water	NWTPH-Gx (MS)	08/26/19 14:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
Batch: 9090423							
A9H0906-28RE1	Water	NWTPH-Gx (MS)	08/26/19 14:30	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-29RE1	Water	NWTPH-Gx (MS)	08/27/19 14:00	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-31RE1	Water	NWTPH-Gx (MS)	08/27/19 10:25	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00

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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**	**A9H0906 - 09 18 19 0843**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9081511							
A9H0906-20	Water	EPA 8260C	08/27/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-21	Water	EPA 8260C	08/27/19 08:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-22	Water	EPA 8260C	08/26/19 13:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-23	Water	EPA 8260C	08/27/19 13:50	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-24	Water	EPA 8260C	08/27/19 09:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-25	Water	EPA 8260C	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-26	Water	EPA 8260C	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-27	Water	EPA 8260C	08/26/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
A9H0906-30	Water	EPA 8260C	08/27/19 07:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
Batch: 9081530							
A9H0906-01	Water	EPA 8260C	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-02	Water	EPA 8260C	08/26/19 10:40	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-07	Water	EPA 8260C	08/26/19 10:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-08	Water	EPA 8260C	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-09	Water	EPA 8260C	08/26/19 12:15	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-10	Water	EPA 8260C	08/26/19 12:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-12	Water	EPA 8260C	08/28/19 07:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-13	Water	EPA 8260C	08/27/19 08:45	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-14	Water	EPA 8260C	08/26/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-15	Water	EPA 8260C	08/27/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-16	Water	EPA 8260C	08/27/19 11:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-17	Water	EPA 8260C	08/27/19 12:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-18	Water	EPA 8260C	08/28/19 07:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-19	Water	EPA 8260C	08/27/19 13:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
Batch: 9090422							
A9H0906-03RE1	Water	EPA 8260C	08/26/19 10:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-04RE1	Water	EPA 8260C	08/26/19 14:00	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-05RE1	Water	EPA 8260C	08/27/19 07:50	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-06RE1	Water	EPA 8260C	08/26/19 13:10	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-11RE1	Water	EPA 8260C	08/26/19 14:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
Batch: 9090423							
A9H0906-28RE1	Water	EPA 8260C	08/26/19 14:30	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-29RE1	Water	EPA 8260C	08/27/19 14:00	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-31RE1	Water	EPA 8260C	08/27/19 10:25	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
Batch: 9090809							

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Lisa Domenighini, Client Services Manager

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9H0906-32	Water	EPA 8260C	08/26/19 00:00	09/13/19 11:49	5mL/5mL	5mL/5mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9081505							
A9H0906-01	Water	EPA 200.8	08/26/19 11:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-02	Water	EPA 200.8	08/26/19 10:40	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-03	Water	EPA 200.8	08/26/19 10:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-04RE1	Water	EPA 200.8	08/26/19 14:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-05RE1	Water	EPA 200.8	08/27/19 07:50	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-06	Water	EPA 200.8	08/26/19 13:10	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-07	Water	EPA 200.8	08/26/19 10:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-08	Water	EPA 200.8	08/26/19 11:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-09	Water	EPA 200.8	08/26/19 12:15	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-10	Water	EPA 200.8	08/26/19 12:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-11RE1	Water	EPA 200.8	08/26/19 14:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-12RE1	Water	EPA 200.8	08/28/19 07:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-13RE1	Water	EPA 200.8	08/27/19 08:45	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-14	Water	EPA 200.8	08/26/19 09:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-15	Water	EPA 200.8	08/27/19 09:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-16	Water	EPA 200.8	08/27/19 11:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-17	Water	EPA 200.8	08/27/19 12:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-18RE1	Water	EPA 200.8	08/28/19 07:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-19RE1	Water	EPA 200.8	08/27/19 13:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
Batch: 9081522							
A9H0906-20	Water	EPA 200.8	08/27/19 10:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-21	Water	EPA 200.8	08/27/19 08:10	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-22	Water	EPA 200.8	08/26/19 13:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-23RE1	Water	EPA 200.8	08/27/19 13:50	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-24RE1	Water	EPA 200.8	08/27/19 09:10	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-25	Water	EPA 200.8	08/28/19 08:15	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-26	Water	EPA 200.8	08/28/19 08:15	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-27	Water	EPA 200.8	08/26/19 10:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-28RE1	Water	EPA 200.8	08/26/19 14:30	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-29RE1	Water	EPA 200.8	08/27/19 14:00	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9H0906-31RE1	Water	EPA 200.8	08/27/19 10:25	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00

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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**	**A9H0906 - 09 18 19 0843**

QUALIFIER DEFINITIONS

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

Apex Laboratories

F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
F-20	Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
H-01	This sample was analyzed outside the recommended holding time.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
S-06	Surrogate recovery is outside of established control limits.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

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

NR Result Not Reported.

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

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

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

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Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

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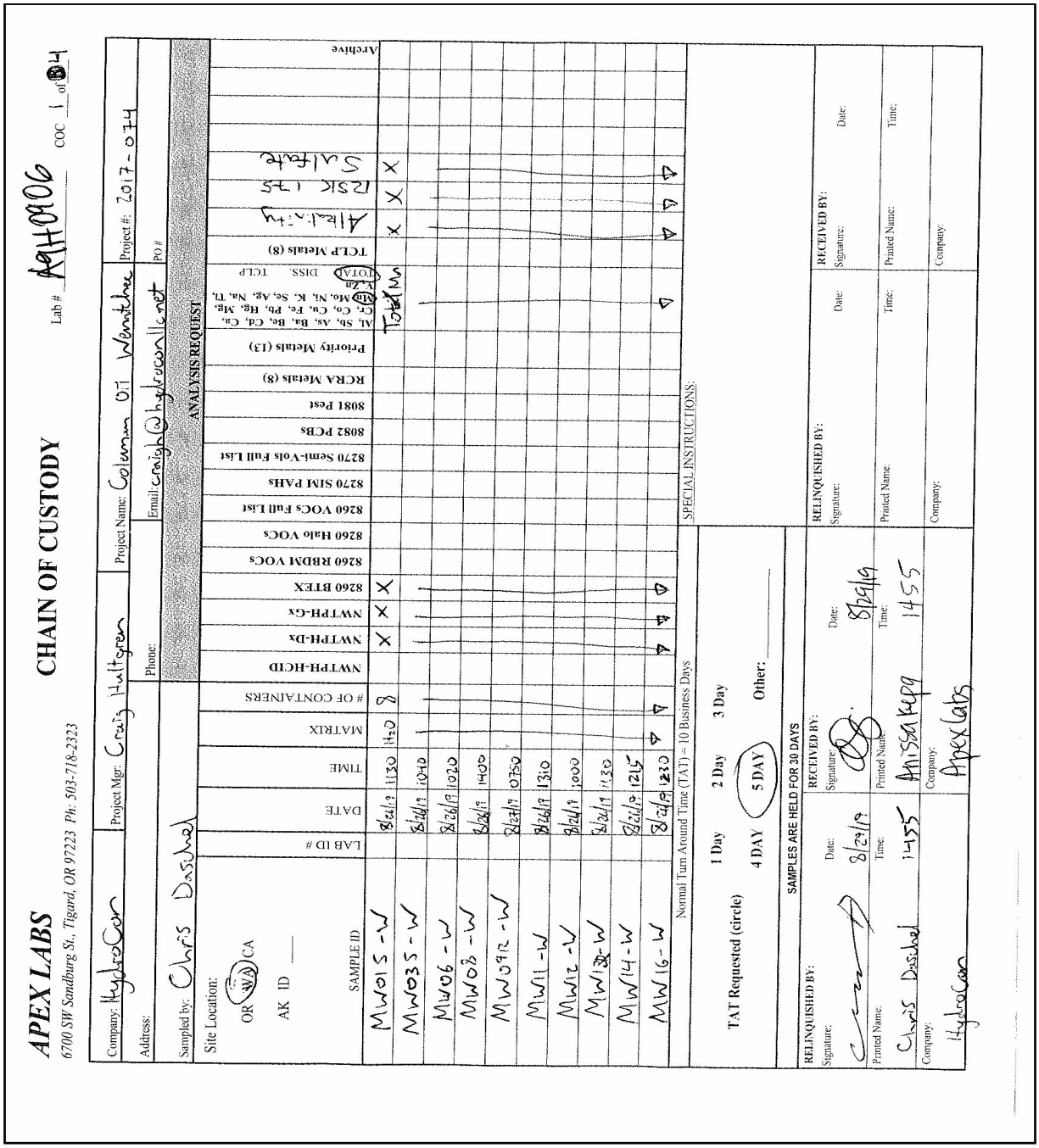
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**



Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

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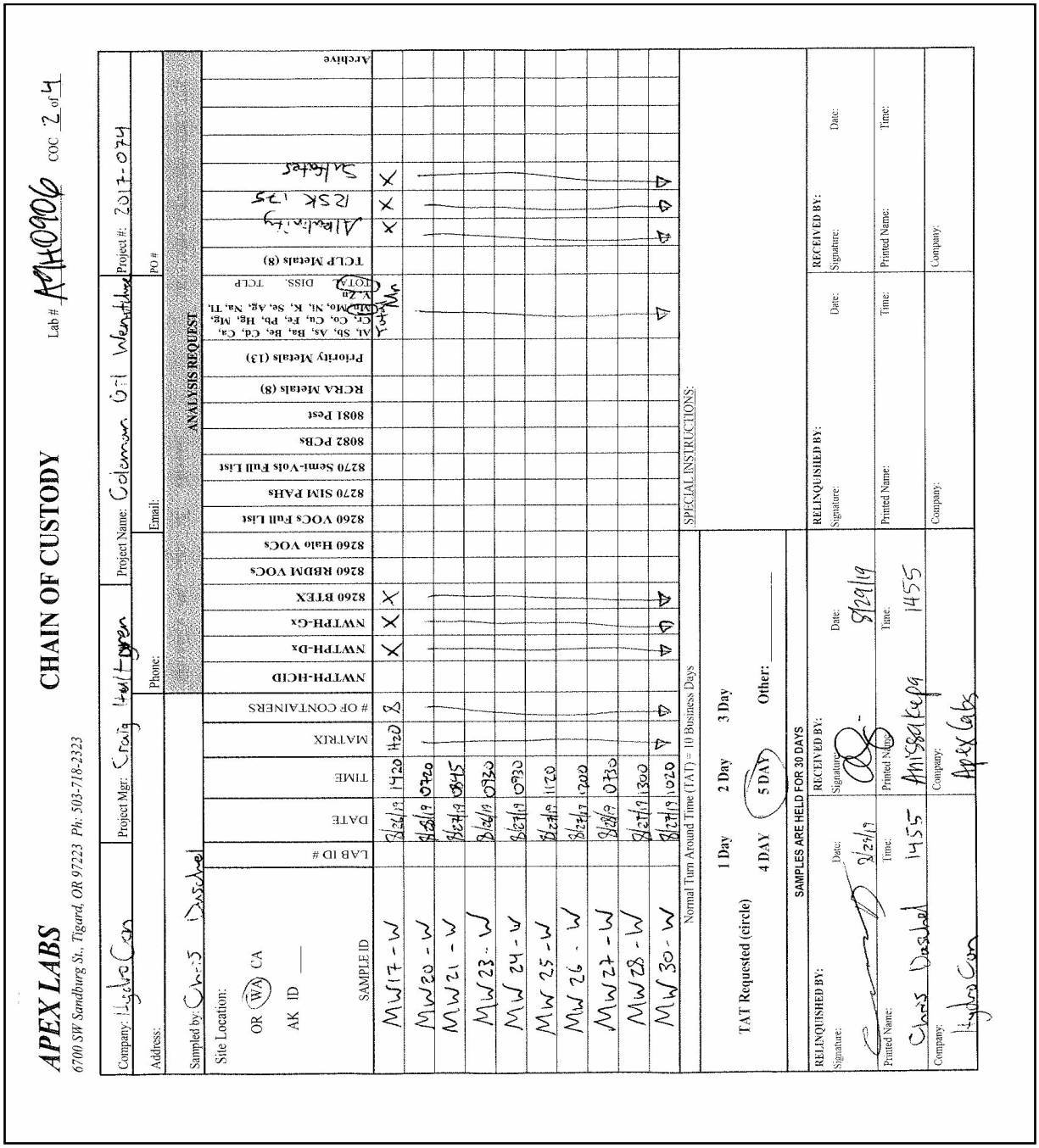
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**



APEX LABS — 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY — Lab # A9H0906 — COC 2 of 4

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

Address: — Phone: — Email: — PO #

Sampled by: Chris Dashiell

Site Location: OR (WA) CA — AK ID ____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn (TOTAL DISS. TCLP)	TCLP Metals (8)	Archive
MW17-W		9/6/19	1420	H2O	8		X	X	X										X	
MW20-W		9/6/19	0720																	
MW21-W		9/6/19	0845																	
MW23-W		9/6/19	0920																	
MW24-W		9/6/19	0930																	
MW25-W		9/6/19	1120																	
MW26-W		9/6/19	1200																	
MW27-W		9/6/19	0730																	
MW28-W		9/6/19	1300																	
MW30-W		9/6/19	1020																	

Normal Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: — Date: 9/6/19 — Time: 1455 — Printed Name: Chris Dashiell — Company: HydroCon

RECEIVED BY: Signature: — Date: — Time: — Printed Name: — Company:

RELINQUISHED BY: Signature: — Date: 9/9/19 — Time: 1455 — Printed Name: Anissa Kepp — Company: Apex Labs

RECEIVED BY: Signature: — Date: — Time: — Printed Name: — Company:

Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A9H0906 COC 3 of 4

Company: HydroCon | Project Mgr: Craig Hultgren | Project Name: Coleman O7 Wenatchee | Project #: 2017-074

Address: | Phone: | Email: | PO #

Sampled by: Chris Duschel

Site Location: OR (WA) CA

AK ID ___

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, (Mn), Mo, Ni, K, Se, Ag, Na, Tl, V, Zn (TOTAL) DISS. TCLP	TCLP Metals (8)	Alkalinity	RSK175	Sulfates				Archive
MW31-W		8/27/19	0810	H2O	8		X	X	X										Total Mn		X	X	X				
MW32-W		8/26/19	1320																								
B401-W		8/27/19	1350																								
B402-W		8/27/19	0910																								
B403-W		8/28/19	0815																								
RW01-W		8/28/19	0815																								
MW100-W		8/26/19	1020																								
MW101-W		8/26/19	1430																								
MW102-W		8/27/19	1400	↓	↓		↓	↓	↓										↓		↓	↓	↓				
190827Blank-W		8/27/19	0715	H2O	4		X	X	X																		

Normal Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 8/29/19	Signature: [signature] Date: 8/29/19	Signature: Date:	Signature: Date:
Printed Name: Chris Duschel Time: 1455	Printed Name: Anissa Kupa Time: 1455	Printed Name: Time:	Printed Name: Time:
Company: HydroCon	Company: Apex Labs	Company:	Company:

Apex Laboratories

Lisa Domenighini, Client Services Manager

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A9H0906 COC 4 of 4

Company: HydroCon Project Mgr: Craig Hultgren Project Name: Coleman Oil Wenatchee Project #: 2017-074
Address: Phone: Email: PO #
Sampled by: Chris Daschel

Site Location: OR (WA) CA
AK ID ___

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn (TOTAL) DISS. TCLP	TCLP Metals (8)	Alkalinity	125K 175	Sulfate				Archive
MW102-W		8/27/19	1025	H2O	8		X	X	X										Total Mn		X	X	X				

Normal Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 8/29/19	Signature: [signature] Date: 8/29/19	Signature: Date:	Signature: Date:
Printed Name: Chris Daschel Time: 1455	Printed Name: Anissa Kepa Time: 1455	Printed Name: Time:	Printed Name: Time:
Company: HydroCon	Company: Apex Labs	Company:	Company:

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

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9H0906 - 09 18 19 0843**

APEX LABS COOLER RECEIPT FORM

Client: HydroCon Element WO#: A9 H0906

Project/Project #: Coleman Oil Wenatchee #2017-074

Delivery Info:

Date/time received: 8/29/19 @ 1455 By: AKK

Delivered by: Apex____Client X ESS____FedEx____UPS____Swift___Senvoy ___SDS___Other_____

Cooler Inspection Date/time inspected: 8/29/19 @ 1500 By: AKK

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.3	1.4	3.3	5.6			
Received on ice? (Y/N)	Y	Y	Y area 8/29/19	Y			
Temp. blanks? (Y/N)	N	N	N	N			
Ice type: (Gel/Real/Other)	Real	Real	Real	Real			
Condition:	Good	Good	Good	Good			

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

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

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

Samples Inspection: Date/time inspected: 8/29/19 @ 1825 By: SC

All samples intact? Yes X No ___ Comments:

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

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

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

Do VOA vials have visible headspace? @ 8/29/19 Yes X No ___ NA ___

Comments: ~~2/4~~ @8/29/19 MW01S-W, ~~2/5~~ 1/5 MW03S-W, 1/5 MW13R-W + 2/4 TBs, sed in

Water samples: pH checked: Yes X No___NA___ pH appropriate? Yes X No___NA___ 5/5 MW30-N

Comments:

Additional information: 4 TBs provided but not listed on COC

AKK 8/29/19

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

Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

AirTECHNOLOGY
Laboratories, Inc.

September 17, 2019

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Apex Laboratories
ATTN: Lisa Domenighini
6700 S.W. Sandburg Street
Tigard, OR 97223

LABORATORY TEST RESULTS

Project Reference: A9H0906
Lab Number: K090406-01/30

Enclosed are results for sample(s) received 9/04/19 by Air Technology Laboratories. Sample was received intact and chilled to 3° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

MF 8-30-19

K090406-01/80

AKK 9/3/19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Lisa Domenighini

RECEIVING LABORATORY:

Air Technology Laboratories, Inc
18501 E. Gale Ave Suite 130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832

Sample Name: A9H0906-01 **Water** **Sampled: 08/26/19 11:30** (MW01S-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 11:30	HS in C & E conts.
01 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL			

Sample Name: A9H0906-02 **Water** **Sampled: 08/26/19 10:40** (MW03S-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 10:40	HS in E cont.
02 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL			

Sample Name: A9H0906-03 **Water** **Sampled: 08/26/19 10:20** (MW06-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 10:20	
03 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL			

Sample Name: A9H0906-04 **Water** **Sampled: 08/26/19 14:00** (MW08-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 14:00	
04 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL			

Standard TAT

3°C

Released By	Date	Received By	Date
[illegible]	9/3/19 13:40	UPS (Shipper)	
UPS (Shipper)		[illegible]	9/4/19 1015
Released By	Date	Received By	Date

KF8-30-19
K0904O6-01/30
AKK 9/3/19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

Sample Name: A9H0906-05		**Water**	**Sampled: 08/27/19 07:50**	(MW09R-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 07:50		
05 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL				

Sample Name: A9H0906-06		**Water**	**Sampled: 08/26/19 13:10**	(MW11-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 13:10		
06 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL				

Sample Name: A9H0906-07		**Water**	**Sampled: 08/26/19 10:00**	(MW12-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 10:00		
07 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL				

Sample Name: A9H0906-08		**Water**	**Sampled: 08/26/19 11:30**	(MW13R-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 11:30	E cont. has HS	
08 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL				

Sample Name: A9H0906-09		**Water**	**Sampled: 08/26/19 12:15**	(MW14-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 12:15		
09 *Containers Supplied:* (D)40 mL VOA - HCL (E)40 mL VOA - HCL				

Standard TAT

3°C

[signature] 9/3/19 13:40		UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)		[signature]	9/4/19 1515
Released By	Date	Received By	Date

KF 8-30-19
K090406-01/30
AKK 9/3/19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

Sample Name: A9H0906-10		**Water**	**Sampled:** 08/26/19 12:30	(MW16-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 12:30		
Containers Supplied:				
10 (D)40 mL VOA - HCL				
(E)40 mL VOA - HCL				

Sample Name: A9H0906-11		**Water**	**Sampled:** 08/26/19 14:20	(MW17-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 14:20		
Containers Supplied:				
11 (D)40 mL VOA - HCL				
(E)40 mL VOA - HCL				

Sample Name: A9H0906-12		**Water**	**Sampled:** 08/28/19 07:20	(MW20-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/11/19 07:20		
Containers Supplied:				
12 (D)40 mL VOA - HCL				
(E)40 mL VOA - HCL				

Sample Name: A9H0906-13		**Water**	**Sampled:** 08/27/19 08:45	(MW21-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 08:45		
Containers Supplied:				
13 (D)40 mL VOA - HCL				
(E)40 mL VOA - HCL				

Sample Name: A9H0906-14		**Water**	**Sampled:** 08/26/19 09:30	(MW23-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 09:30		
14 *Containers Supplied:*				
(D)40 mL VOA - HCL				
(E)40 mL VOA - HCL				

Standard TAT

3 °C

[signature] 9/3/19 13:40		UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)		[signature]	9/4/19 1015
Released By	Date	Received By	Date

KF-8-30-A

SUBCONTRACT ORDER

1909406-01/30

Apex Laboratories

AKK 9/3/19

A9H0906

Sample Name: A9H0906-15 **Water** **Sampled: 08/27/19 09:30** (MW24-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 09:30	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

15

Sample Name: A9H0906-16 **Water** **Sampled: 08/27/19 11:20** (MW25-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 11:20	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

16

Sample Name: A9H0906-17 **Water** **Sampled: 08/27/19 12:00** (MW26-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 12:00	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

17

Sample Name: A9H0906-18 **Water** **Sampled: 08/28/19 07:30** (MW27-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/11/19 07:30	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

18

Sample Name: A9H0906-19 **Water** **Sampled: 08/27/19 13:00** (MW28-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 13:00	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

19

Standard TAT

3°C

9/3/19 13:40		UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)			
Released By	Date	Received By	9/4/19 1015 Date

KF 8-30-19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

K0904406-01/20 AKK 9/3/19

Sample Name: A9H0906-20 **Water** **Sampled: 08/27/19 10:20** (MW30-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 10:20	Sediment in all voas
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Sample Name: A9H0906-21 **Water** **Sampled: 08/27/19 08:10** (MW31-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 08:10	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Sample Name: A9H0906-22 **Water** **Sampled: 08/26/19 13:20** (MW32-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 13:20	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Sample Name: A9H0906-23 **Water** **Sampled: 08/27/19 13:50** (BH01-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 13:50	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Sample Name: A9H0906-24 **Water** **Sampled: 08/27/19 09:10** (BH02-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 09:10	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Standard TAT

3°C

9/3/19 13:40 — UPS (Shipper)

Released By — Date — Received By — Date

UPS (Shipper) — 9/4/19 10:15

Released By — Date — Received By — Date

KF 8-30-19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

KJ90406-01/30

AHK 9/3/19

Sample Name: A9H0906-25 **Water** **Sampled: 08/28/19 08:15** (BH03-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/11/19 08:15	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

25

Sample Name: A9H0906-26 **Water** **Sampled: 08/28/19 08:15** (RW01-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/11/19 08:15	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

2

Sample Name: A9H0906-27 **Water** **Sampled: 08/26/19 10:20** (MW100-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 10:20	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

27

Sample Name: A9H0906-28 **Water** **Sampled: 08/26/19 14:30** (MW101-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/09/19 14:30	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

28

Sample Name: A9H0906-29 **Water** **Sampled: 08/27/19 14:00** (MW102-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 14:00	
Containers Supplied:			
(D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

29

Standard TAT

3°C

UPS (Shipper)

Released By	Date	Received By	Date
UPS (Shipper)			
Released By	Date	Received By	Date

9/4/19 1015

KF 8-30-19

1490486-01/35

AMK 9/3/19

SUBCONTRACT ORDER

Apex Laboratories

A9H0906

Sample Name: A9H0906-31 **Water** **Sampled: 08/27/19 10:25** (MW10R-W)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	09/12/19 17:00	09/10/19 10:25	
Containers Supplied:			
30 (D)40 mL VOA - HCL			
(E)40 mL VOA - HCL			

Standard TAT

3°C

9/3/19 13:40		UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)			
Released By	Date	Received By	Date
		9/4/19	1015

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-01		K090406-02		K090406-03		K090406-04	
Client Sample I.D.:	MW01S-W (A9H0906-01)		MW03S-W (A9H0906-02)		MW06-W (A9H0906-03)		MW08-W (A9H0906-04)	
Date/Time Sampled:	8/26/19 11:30		8/26/19 10:40		8/26/19 10:20		8/26/19 14:00	
Date/Time Analyzed:	9/6/19 16:44		9/6/19 16:56		9/6/19 17:08		9/6/19 17:19	
QC Batch No.:	190906GC8A2		190906GC8A2		190906GC8A2		190906GC8A2	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	21	1.0	29	1.0	3,100	1.0	8,100	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-05		K090406-06		K090406-07		K090406-08	
Client Sample I.D.:	MW09R-W (A9H0906-05)		MW011-W (A9H0906-06)		MW12-W (A9H0906-07)		MW13R-W (A9H0906-08)	
Date/Time Sampled:	8/27/19 7:50		8/26/19 13:10		8/26/19 10:00		8/26/19 11:30	
Date/Time Analyzed:	9/9/19 10:26		9/6/19 11:47		9/7/19 11:58		9/7/19 12:10	
QC Batch No.:	190909GC8A1		190906GC8A2		190906GC8A2		190906GC8A2	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	540	1.0	6,300	1.0	7.3	1.0	200	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-09		K090406-10		K090406-11		K090406-12	
Client Sample I.D.:	MW14-W (A9H0906-09)		MW16-W (A9H0906-10)		MW17-W (A9H0906-11)		MW20-W (A9H0906-12)	
Date/Time Sampled:	8/26/19 12:15		8/26/19 12:30		8/26/19 14:20		8/28/19 7:20	
Date/Time Analyzed:	9/7/19 12:21		9/7/19 12:34		9/7/19 12:45		9/9/19 10:37	
QC Batch No.:	190906GC8A2		190906GC8A2		190906GC8A2		190909GC8A1	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	1,400	1.0	ND	1.0	4,100	1.0	99	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-13		K090406-14		K090406-15		K090406-16	
Client Sample I.D.:	MW21-W (A9H0906-13)		MW23-W (A9H0906-14)		MW24-W (A9H0906-15)		MW25-W (A9H0906-16)	
Date/Time Sampled:	8/27/19 8:45		8/26/19 9:30		8/27/19 9:30		8/27/19 11:20	
Date/Time Analyzed:	9/9/19 10:49		9/7/19 12:56		9/9/19 11:06		9/9/19 11:17	
QC Batch No.:	190909GC8A1		190906GC8A2		190909GC8A1		190909GC8A1	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	1,700	1.0	140	1.0	640	1.0	3.1	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-17		K090406-18		K090406-19		K090406-20	
Client Sample I.D.:	MW26-W (A9H0906-17)		MW27-W (A9H0906-18)		MW28-W (A9H0906-19)		MW30-W (A9H0906-20)	
Date/Time Sampled:	8/27/19 12:00		8/28/19 7:30		8/27/19 13:00		8/27/19 10:20	
Date/Time Analyzed:	9/9/19 11:31		9/9/19 11:42		9/9/19 11:54		9/9/19 12:05	
QC Batch No.:	190909GC8A1		190909GC8A1		190909GC8A1		190909GC8A1	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	20	1.0	500	1.0	2,100	1.0	790	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-21		K090406-22		K090406-23		K090406-24	
Client Sample I.D.:	MW31-W (A9H0906-21)		MW32-W (A9H0906-22)		BH01-W (A9H0906-23)		BH02-W (A9H0906-24)	
Date/Time Sampled:	8/27/19 8:10		8/26/19 13:20		8/27/19 13:50		8/27/19 9:10	
Date/Time Analyzed:	9/9/19 12:17		9/7/19 13:08		9/9/19 12:28		9/9/19 12:39	
QC Batch No.:	190909GC8A1		190906GC8A2		190909GC8A1		190909GC8A1	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	230	1.0	38	1.0	2,100	1.0	2,200	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-25		K090406-26		K090406-27		K090406-28	
Client Sample I.D.:	BH03-W (A9H0906-25)		RW01-W (A9H0906-26)		MW100-W (A9H0906-27)		MW101-W (A9H0906-28)	
Date/Time Sampled:	8/28/19 8:15		8/28/19 8:15		8/26/19 10:20		8/26/19 14:30	
Date/Time Analyzed:	9/9/19 12:50		9/9/19 13:03		9/7/19 13:19		9/7/19 13:31	
QC Batch No.:	190909GC8A1		190909GC8A1		190906GC8A2		190906GC8A2	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	1.0		1.0		1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	1,500	1.0	340	1.0	3,700	1.0	3,800	1.0

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Apex Laboratories
Attn: Lisa Domenighini
Project Name: NA
Project No.: A9H0906
Date Received: 09/04/19
Matrix: Water
Reporting Units: ug/L

RSK175

Lab No.:	K090406-29		K090406-30					
Client Sample I.D.:	MW102-W (A9H0906-29)		MW10R-W (A9H0906-31)					
Date/Time Sampled:	8/27/19 14:00		8/27/19 10:25					
Date/Time Analyzed:	9/9/19 13:17		9/9/19 13:29					
QC Batch No.:	190909GC8A1		190909GC8A1					
Analyst Initials:	CM		CM					
Dilution Factor:	1.0		1.0					
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L				
Ethene	ND	1.0	ND	1.0				
Ethane	ND	1.0	ND	1.0				
Methane	1,900	1.0	1,600	1.0				

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190906GC8A2

Matrix: Air

Reporting Units: ug/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	9/6/19 15:39			9/6/19 16:07		9/6/19 16:21					
Analyst Initials:	CM/AS			CM/AS		CM/AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,040	90.6	1,130	99.0	8.8	70	130	30
Ethane	ND	1.0	1,230	1,190	96.7	1,260	103	6.3	70	130	30
Methane	ND	1.0	654	630	96.3	665	102	5.4	70	130	30

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190909GC8A1

Matrix: Air

Reporting Units: ug/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	9/9/19 9:28			9/9/19 9:52		9/9/19 10:03					
Analyst Initials:	CM/AS			CM/AS		CM/AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,190	104	1,060	92.9	11.6	70	130	30
Ethane	ND	1.0	1,230	1,280	104	1,220	99.6	4.7	70	130	30
Methane	ND	1.0	654	665	102	643	98.2	3.5	70	130	30

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 9-17-19

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029040 Date Received: 8/27/19
Sample Identification: MW08-W Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	357.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	357.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	< 0.1	mg/L	0.1	EPA 300.0	9/ 5/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

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3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029041 Date Received: 8/27/19
Sample Identification: MW11-W Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	334.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	334.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	< 0.1	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
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Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029042
Sample Identification: MW14-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	414.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	414.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	< 0.1	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima

Signature:

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

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Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029043
Sample Identification: MW13R-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	333.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	333.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	50.6	mg/L	0.5	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029044
Sample Identification: MW06-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	241.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	241.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	8.79	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029045
Sample Identification: MW100-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	240.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	240.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	8.31	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029046
Sample Identification: MW23-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	284.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	284.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	43.1	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Fax: (509) 452-7773
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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029047 Date Received: 8/27/19
Sample Identification: MW17-W Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	418.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	418.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	0.32	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029048
Sample Identification: MW101-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	4090	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	4090	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	0.23	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

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1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029049
Sample Identification: MW32-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	279.	mg/L	5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	279.	mg/L	5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
Sulfate	22.7	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	0.35	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029050
Sample Identification: MW16-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	306.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	306.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	22.2	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	2.00	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029051
Sample Identification: MW015-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	185.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	185.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	78.4	mg/L	0.2	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	0.75	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima

Signature:

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Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029052
Sample Identification: MW035-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	230.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	230.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	25.4	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997704
Client: HydroCon
Account: 20791
Sampler: Robert Horsberger
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029053
Sample Identification: MW12-W

Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	175.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	175.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	39.5	mg/L	0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL, INC.

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Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997704

	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water (3) Other					
SAMPLE BY (1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. # 20791

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Hultgren Hydrocon	Same as client
314 W. 15th St Ste 300	
Vancouver WA 98626	
SAMPLER'S NAME: Robert A. Horsburgh	PHONE: 206-856-6679

E-mail CraigH@Hydrocon llc.Net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-26-19				
(Printed) Rob Horsburgh	TIME 1540	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
			8-27-19		
(Printed)	TIME	(Printed) Kristin Erickson	TIME 1:25	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29040	1	MW08-W	Sample Date 8-26-19 Sample Time 1400
29041	2	MW11-W	Sample Date 8-26-19 Sample Time 1310
29042	3	MW14-W	Sample Date 8-26-19 Sample Time 1215
29043	4	MW13R-W	Sample Date 8-26-19 Sample Time 1130
29044	5	MW06-W	Sample Date 8-26-19 Sample Time 1020

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:

Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or warranties collateral to or affecting this agreement.

Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: _____ Date 8-26-19

This form also serves as "Chain of Custody."

CAICOF - 03 REV. 04/26/2013

(see legend on back)

	IRRIGATION WATER	SAMPLE # 1	2	3	4	5
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

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Union Gap, WA 98903
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Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997704

	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS
Craig Haltgren Hydrocon
314 W 15th St. Suite 300
Vancouver WA 98626

SAMPLER'S NAME
Rob Hunsberger

BILLING NAME/ADDRESS
Same as Client

PHONE
206 856-6679

E-mail Craigh@Hydroconllc.net

E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
(Printed) Robert A. Hunsberger	TIME 1540	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature) Kristin Erickson	DATE 8-27-19	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed)	TIME	(Printed) Kristin Erickson	TIME 1:25	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29045	1	MW100-W	Sample Date 8-26-19
			Sample Time 1020
29046	2	MW23-W	Sample Date 8-26-19
			Sample Time 0930
29047	3	MW17-W	Sample Date 8-26-19
			Sample Time 1430
29048	4	MW107-W	Sample Date 8-26-19
			Sample Time 1430
29049	5	MW32-W	Sample Date 8-26-19
			Sample Time 1520

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:

Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or warranties collateral to or affecting this agreement.

Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: _____ Date 8-26-19

This form also serves as "Chain of Custody."

CAICOF - 03

REV. 04/26/2013

(see legend on back)

	IRRIGATION WATER	SAMPLE # 1	2	3	4	5
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

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WATER ANALYSIS ORDER FORM

Batch# 997704	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Hultgren Hydrocon	Same as client
317 W 15Th St Suite 300	
Vancouver WA 98626	
SAMPLER'S NAME: Rob Hansberger	PHONE: 206-856-6679

E-mail CraigH@Hydrocon llc.Net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
(Printed) Rob Hansberger	TIME 1540	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE 8-27-19	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed) Kristin Erickson	TIME 1:25	(Printed)	TIME	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29050	1	MW16-W	Sample Date 8-26-19 / Sample Time 1230
29051	2	MW01S-W	Sample Date 8-26-19 / Sample Time 1130
29052	3	MW03S-W	Sample Date 8-26-19 / Sample Time 1040
29053	4	MW12-W	Sample Date 8-26-19 / Sample Time 1000
	5		Sample Date / Sample Time

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

(see legend on back)

IRRIGATION WATER		SAMPLE # 1	2	3	4	5
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

Customer Signature: _____ Date 8-26-19

This form also serves as "Chain of Custody."

CASCADE ANALYTICAL
A EUROFINS COMPANY

Sample Receipt Form

Date Received: 8/26/19 Time Received: 16:07 Initials: BL

Client Name: Craig Haltgren Project Name: Water Analysis

Temperature of cooler upon receipt: 24 °C Thermometer ID: 2

Custody seals: Intact Broken None N/A

Chain of Custody Completed:

Client name, address, and phone number;	Yes	No
Date and time of sampling;	Yes	No
Test requests clear;	Yes	No
Completed in ink;	Yes	No
Signed by client;	Yes	No

All samples received:		Yes	No
All samples intact:		Yes	No
Sample ID's match COC form:		Yes	No
Appropriate containers used:		Yes	No
Sufficient amount of sample for analysis:		Yes	No
Correct preservative verified:	N/A	Yes	No
Air bubbles in VOC, TTHM, or HAA5 samples:	N/A	Yes	No
Sample(s) exceed hold time:		Yes	No

Type of coolant: Ice Blue Ice None Other Comment: _____

Shipping Method: FedEx UPS USPS Brett & Sons Hand Delivered CAI Sampled

Shipping Container: E-CA Cooler E-CA Cooler Box Client's Cooler None Other _____

Samples accepted for analysis: Yes No

Reason for Rejection: _____

Name of Person Contacted: _____ Date Contacted: _____

Comments: _____

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Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029243 Date Received: 8/28/19
Sample Identification: MW09R-W Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	481.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	481.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	4.97	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029244
Sample Identification: MW28-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	472.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	472.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	2.39	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029245
Sample Identification: MW30-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	592.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	592.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	2.32	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029246
Sample Identification: BH02-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	431.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	431.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	1.41	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima

Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029247
Sample Identification: MW31-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	578.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	578.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	63.8	mg/L	0.5	EPA 300.0	9/ 6/19	
Nitrate-N/Nitrite-N	< 0.25	mg/l	0.25	EPA 300.0	9/ 6/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029248
Sample Identification: MW26-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	487.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	487.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	14.0	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029249
Sample Identification: MW25-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	396.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	396.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	20.5	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029250
Sample Identification: MW10R-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	490.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	490.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	0.39	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029251 Date Received: 8/28/19
Sample Identification: MW24-W Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	450.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	450.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	15.2	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima

Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029252 Date Received: 8/28/19
Sample Identification: MW21-W Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	468.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	468.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	22.8	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029253
Sample Identification: BH01-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	435.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	435.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	0.50	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima

Signature:

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Union Gap, WA 98903

Batch: 997784
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029254
Sample Identification: MW102-W

Date Received: 8/28/19
Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	440.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	440.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	0.46	mg/L	0.1	EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL, INC.

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Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997784

	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS
Craig Hultgren Hydrocon
314 W 15th St Suite 300
Vancouver WA 98626
SAMPLER'S NAME
Rob Hunsberger

BILLING NAME/ADDRESS
Same as Client
PHONE
206 856-6679

E-mail CraigH@HydroconllC.net

E-mail

RELINQUISHED BY: (Signature) [1]	DATE	RELINQUISHED BY: (Signature) [2]	DATE	RELINQUISHED BY: (Signature) [3]	DATE
	8-27-19				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
Rob Hunsberger	1725				
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
	8/28/19				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
Dan Ott	1420				

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29243	1	MW09R-W	Sample Date 8-27-19
			Sample Time 0750
29244	2	MW28-W	Sample Date 8-27-19
			Sample Time 1300
29245	3	MW30-W 8-27-19	Sample Date ~~1020~~
		1020	Sample Time ~~GTTG~~
29246	4	BH02-W	Sample Date 8-27-19
			Sample Time 0910
29247	5	MW31-W	Sample Date 8-27-19
			Sample Time 0810

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:

Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or warranties collateral to or affecting this agreement.

Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: _____ Date 8-27-19

This form also serves as "Chain of Custody."

CAICOF - 03

REV. 04/26/2013

(see legend on back)

		SAMPLE # 1	2	3	4	5
	IRRIGATION WATER					
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

CASCADE ANALYTICAL, INC.

3019 G. S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

1008 W. Ahtanum Rd.
Union Gap, WA 98903
(509) 452-7707
Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997784	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Haltgren Hydrocon	Same as client
314 w 15th St Suite 300	
Vancouver WA 98626	
SAMPLER'S NAME: Rob Honsberger	PHONE: 206 856-6679

E-mail Craig@Hydrocon llc.net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-27-19				
(Printed) Rob Honsberger	TIME 1425	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE 8/28/19	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed) DSandt	TIME 14:00	(Printed)	TIME	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29248	1	MW26-W	Sample Date 8-27-19
			Sample Time 1200
29249	2	MW25-W	Sample Date 8-27-19
			Sample Time 1120
29250	3	MW10R-W	Sample Date 8-27-19
			Sample Time 1025
29251	4	MW24-W	Sample Date 8-27-19
			Sample Time 0930
29252	5	MW21-W	Sample Date 8-27-19
			Sample Time 0845

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:

Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or warranties collateral to or affecting this agreement.

Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: _____ Date 8-27-19

This form also serves as "Chain of Custody."

CAICOF - 03 REV. 04/26/2013

(see legend on back)

		SAMPLE # 1	2	3	4	5
IRRIGATION WATER						
	Standard					
GENERAL CHEMISTRY						
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
MICROBIOLOGY						
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
METALS - TOTAL OR DISSOLVED						
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
MINERALS						
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

CASCADE ANALYTICAL, INC.

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1-800-545-4206

1008 W. Ahtanum Rd.
Union Gap, WA 98903
(509) 452-7707
Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997784	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Haltgren Hydrocon	Same as client
319 W 15th St. Ste 300	
Vancouver WA 98626	
SAMPLER'S NAME: Rob Hunsberger	PHONE: 206 856-6679

E-mail Craig Hatt @ Hydrocon NC.net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-27-19				
(Printed) Rob Hunsberger	TIME 1425	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE 8/28/19	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed) DSchmidt	TIME 1400	(Printed)	TIME	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29253	1	BH01-W	Sample Date 8-27-19
			Sample Time 1350
29254	2	MW102-W	Sample Date 8-27-19
			Sample Time 1400
	3		Sample Date
			Sample Time
	4		Sample Date
			Sample Time
	5		Sample Date
			Sample Time

(see legend on back)

		SAMPLE # 1	2	3	4	5
IRRIGATION WATER	Standard					
GENERAL CHEMISTRY						
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X			
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
MICROBIOLOGY						
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
METALS - TOTAL OR DISSOLVED						
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
MINERALS						
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:

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Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: _____ Date 8-27-19

This form also serves as "Chain of Custody."

CASCADE ANALYTICAL
A EUROFINS COMPANY

Sample Receipt Form

Date Received: 8/27/19 Time Received: 2:35 Initials: JM

Client Name: Craig Hultgren Hydrocon Project Name: WW

Temperature of cooler upon receipt: 21 °C Thermometer ID: 2

Custody seals: Intact Broken (None) N/A

Chain of Custody Completed:

Client name, address, and phone number;	(Yes)	No
Date and time of sampling;	(Yes)	No
Test requests clear;	(Yes)	No
Completed in ink;	(Yes)	No
Signed by client;	(Yes)	No
All samples received:	(Yes)	No
All samples intact:	(Yes)	No
Sample ID's match COC form:	(Yes)	No
Appropriate containers used:	(Yes)	No
Sufficient amount of sample for analysis:	(Yes)	No
Correct preservative verified:	(N/A)	Yes No
Air bubbles in VOC, TTHM, or HAA5 samples:	(N/A)	Yes No
Sample(s) exceed hold time:		Yes (No)

Type of coolant: (Ice) Blue Ice None Other Comment: _____

Shipping Method: FedEx UPS USPS Brett & Sons (Hand Delivered) CAI Sampled

Shipping Container: E-CA Cooler E-CA Cooler Box (Client's Cooler) None Other _____

Samples accepted for analysis: (Yes) No

Reason for Rejection: _____

Name of Person Contacted: _____ Date Contacted: _____

Comments: _____

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(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997925
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029471
Sample Identification: MW28-W

Date Received: 8/30/19
Date Sampled: 8/28/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	504.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	504.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	9.60	mg/L	0.1	EPA 300.0	8/30/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/30/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

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(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd
Union Gap, WA 98903

Batch: 997925
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029472 — Date Received: 8/30/19
Sample Identification: RW01-W — Date Sampled: 8/28/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	487.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	487.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	18.3	mg/L	0.1	EPA 300.0	8/30/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/30/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

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Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 997925
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029473
Sample Identification: MW20-W

Date Received: 8/30/19
Date Sampled: 8/28/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	462.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	462.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	0.18	mg/L	0.1	EPA 300.0	8/30/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/30/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd
Union Gap, WA 98903

Batch: 997925
Client: HydroCon
Account: 20791
Sampler: Rob
PO Number:

--- Water Analytical Report ---

Report Date: 9/ 9/19

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Laboratory Number: 19-E029474 Date Received: 8/30/19
Sample Identification: BH03-W Date Sampled: 8/28/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	619.	mg/L	5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	619.	mg/L	5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 6/19	
Sulfate	6.78	mg/L	0.1	EPA 300.0	8/30/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/30/19	

Approved By Name: Andy Schut
Function: Lab Manager/Yakima
Signature:

CASCADE ANALYTICAL, INC.

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1-800-545-4206

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Union Gap, WA 98903
(509) 452-7707
Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997925	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Hultgren Hydrocon	Same as Client
314 W 15th St Suite 300	
Vancouver WA 98626	
SAMPLER'S NAME: Rob Honsberger	PHONE: 206 856-6679

E-mail Craigh@Hydrocon llc.net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-29-19				
(Printed) Robert A Honsberger	TIME 0935	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE 8/30/19	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed) DSchmidt	TIME 3:20	(Printed)	TIME	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29471	1	MW28-W	Sample Date 8-28-19
			Sample Time 0750
29472	2	RW01-W	Sample Date 8-29-19
			Sample Time 0815
29473	3	MW20-W	Sample Date 8-28-19
			Sample Time 0720
29474	4	BH03-W	Sample Date 8-28-19
			Sample Time 0815
	5		Sample Date
			Sample Time

***METALS - circle type of analysis - T=total or D=dissolved**

Total N package = TKN, NO_3, NO_2, NH_3

Sample container received by client was sealed Yes_____ No_____

Sample container received by laboratory was sealed Yes_____ No_____

(see legend on back)

		SAMPLE # 1	2	3	4	5
IRRIGATION WATER	Standard					
GENERAL CHEMISTRY						
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO_4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
MICROBIOLOGY						
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
METALS - TOTAL OR DISSOLVED						
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
MINERALS						
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

Customer Signature: _____ Date 8-28-19

This form also serves as "Chain of Custody."

CASCADE ANALYTICAL
A EUROFINS COMPANY

Sample Receipt Form

Date Received: 1.28.19 Time Received: 948 Initials: SJR

Client Name: Craig Hultgren Hydrosca Project Name: WW

Temperature of cooler upon receipt: 17 °C Thermometer ID: 2

Custody seals: Intact Broken ~~None~~ N/A

Chain of Custody Completed:

Client name, address, and phone number;	~~Yes~~	No
Date and time of sampling;	~~Yes~~	No
Test requests clear;	~~Yes~~	No
Completed in ink;	~~Yes~~	No
Signed by client;	~~Yes~~	No
All samples received:	~~Yes~~	No
All samples intact:	~~Yes~~	No
Sample ID's match COC form:	~~Yes~~	No
Appropriate containers used:	~~Yes~~	No
Sufficient amount of sample for analysis:	~~Yes~~	No
Correct preservative verified:	~~N/A~~	Yes No
Air bubbles in VOC, TTHM, or HAA5 samples:	~~N/A~~	Yes No
Sample(s) exceed hold time:		Yes ~~No~~

Type of coolant: ~~Ice~~ Blue Ice None Other Comment: _____

Shipping Method: FedEx UPS USPS Brett & Sons ~~Hand Delivered~~ CAI Sampled

Shipping Container: E-CA Cooler E-CA Cooler Box ~~Client's Cooler~~ None Other _____

Samples accepted for analysis: Yes No

Reason for Rejection: _____

Name of Person Contacted: _____ Date Contacted: _____

Comments: _____

CASCADE ANALYTICAL, INC.

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Union Gap, WA 98903
(509) 452-7707
Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997764

SEND RESULTS TO: (1) Client (circled) 2) Billing 3) Both
SAMPLE REPRESENTS: 1) Irrigation 2) Waste Water (3) Other (circled)
SAMPLE BY: (1) Client (circled) 2) Quality Control 3) Cascade 4) Other

New Acct. # 20791

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Hultgren Hydrocon	Same as client
314 W. 15th St Ste 300	EMAILED
Vancouver WA 98626	#10/9/19 DB
SAMPLER'S NAME: Robert A. Hunsberger	PHONE: 206-856-6679

E-mail CraigH@Hydroconllc.net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
[signature]	8-26-19				
(Printed) Rob Hunsberger	TIME 1540	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature) [signature]	DATE 8-27-19	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed)	TIME	(Printed) Kristin Erickson	TIME 1:25	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

Lab #	Sample	Description	Sample Date / Sample Time
29040	1	MW08-W	8-26-19 / 1400
29041	2	MW11-W	8-26-19 / 1310
29042	3	MW14-W	8-26-19 / 1215
29043	4	MW13R-W	8-26-19 / 1130
29044	5	MW06-W	8-26-19 / 1020

(see legend on back)

Code	Analysis	1	2	3	4	5
	IRRIGATION WATER					
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

***METALS - circle type of analysis - T=total or D=dissolved**
Total N package = TKN, NO_3, NO_2, NH_3
Sample container received by client was sealed Yes_____ No_____
Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:
Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or warranties collateral to or affecting this agreement.
Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

Customer Signature: [signature] Date 8-26-19

This form also serves as "Chain of Custody."

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Account: 20791
Sampler: Robert Horsberger
Date Sampled: 8/26/19
Date Received: 8/27/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997704

-- Blank Analysis --

Analyte	Blank ID	Units	Blank Results	Date Analyzed
SO4/IC	Blank	mg/L	< 0.1	8/27/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/27/19
SO4/IC	Blank	mg/L	< 0.1	8/27/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/27/19
SO4/IC	Blk	mg/L	< 0.1	8/27/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/27/19
NO3/NO2	Blank	mg/l	< 0.05	8/27/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/27/19
NO3/NO2	Blank	mg/l	< 0.05	8/27/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/27/19
NO3/NO2	Blk	mg/l	< 0.05	8/27/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/27/19

Andy Schut
Lab Manager/Yakima

Approved by _____

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Union Gap, WA 98903

Account: 20791
Sampler: Robert Horsberger
Date Sampled: 8/26/19
Date Received: 8/27/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997704

-- Duplicate Analysis --

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
Alk.	19-E029049	mg/L	279.	276.	-1.08
Alk.	19-E029248	mg/L	487.	479.	-1.66
Bicarb	19-E029049	mg/L	279.	276.	-1.08
Bicarb	19-E029248	mg/L	487.	479.	-1.66
Carbonate	19-E029049	mg/L	< 5	< 5	0.00
Carbonate	19-E029248	mg/L	< 5	< 5	0.00

Andy Schut
Lab Manager/Yakima

Approved by _____

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Union Gap, WA 98903

Account: 20791
Sampler: Robert Horsberger
Date Sampled: 8/26/19
Date Received: 8/27/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997704

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Alk.	Known	mg/L	98.5	100.	98	9/ 5/19
Alk.	Known	mg/L	104.	100.	104	9/ 5/19
Alk.	Known	mg/L	98.0	100.	98	9/ 6/19
Bicarb	Known	mg/L	98.5	100.	98	9/ 5/19
Bicarb	Known	mg/L	104.	100.	104	9/ 5/19
Bicarb	Known	mg/L	98.0	100.	98	9/ 6/19
SO4/IC	IPC_Low	mg/L	0.48	0.50	96	8/27/19
SO4/IC	IPC_HI	mg/L	10.1	10.0	101	8/27/19
SO4/IC	LFB	mg/L	8.16	8.00	102	8/27/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	8/27/19
SO4/IC	IPC_HI	mg/L	10.0	10.0	100	8/27/19
SO4/IC	LFB	mg/L	8.18	8.00	102	8/27/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	8/27/19
SO4/IC	IPC_HI	mg/L	10.1	10.0	101	8/27/19

Andy Schut
Lab Manager/Yakima

Approved by _____

CASCADE ANALYTICAL, INC.

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WATER ANALYSIS ORDER FORM

Batch# 997784

	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS
Craig Hultgren Hydrocon
314 W 15th St Ste 300
Vancouver WA 98626
SAMPLER'S NAME
Rob Hunsberger

BILLING NAME/ADDRESS
Same as client
EMAILED + 10/9/19 DS
PHONE
206 856-6679

E-mail Craig@Hydrocon.net

E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-27-19				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
Rob Hunsberger	1725				
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
	8/28/19				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
	1400				

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29243	1	MW09R-W	Sample Date 8-27-19
			Sample Time 0850
29244	2	MW28-W	Sample Date 8-27-19
			Sample Time 1300
29245	3	MW30-W 8-27-19	Sample Date
			Sample Time 1020
29246	4	BH02-W	Sample Date 8-27-19
			Sample Time 0910
29247	5	MW31-W	Sample Date 8-27-19
			Sample Time 0830

***METALS - circle type of analysis - T=total or D=dissolved**
Total N package = TKN, NO_3, NO_2, NH_3
Sample container received by client was sealed Yes_____ No_____
Sample container received by laboratory was sealed Yes_____ No_____

Disclaimer:
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Customer Signature: _____ Date 8-27-19

This form also serves as "Chain of Custody."

CAICOF - 03 REV. 04/26/2013

(see legend on back)

		SAMPLE # 1	2	3	4	5
IRRIGATION WATER						
	Standard					
GENERAL CHEMISTRY						
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	X
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
MICROBIOLOGY						
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
METALS - TOTAL OR DISSOLVED						
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
MINERALS						
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

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(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Account: 20791
Sampler: Rob
Date Sampled: 8/27/19
Date Received: 8/28/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Batch number 997784

-- Blank Analysis --

Analyte	Blank ID	Units	Blank Results	Date Analyzed
SO4/IC	Blank	mg/L	< 0.1	8/28/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/28/19
SO4/IC	Blank	mg/L	< 0.1	8/28/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/28/19
SO4/IC	Blk	mg/L	< 0.1	8/28/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/28/19
SO4/IC	Blank	mg/L	< 0.1	9/ 6/19
SO4/IC	IPC_Blk	mg/L	< 0.1	9/ 6/19
SO4/IC	Blank	mg/L	< 0.1	9/ 6/19
SO4/IC	IPC_Blk	mg/L	< 0.1	9/ 6/19
SO4/IC	Blank	mg/L	< 0.1	9/ 6/19
SO4/IC	IPC_Blk	mg/L	< 0.1	9/ 6/19
NO3/NO2	Blank	mg/l	< 0.05	8/28/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/28/19
NO3/NO2	Blank	mg/l	< 0.05	8/28/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/28/19
NO3/NO2	Blk	mg/l	< 0.05	8/28/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/28/19
NO3/NO2	Blank	mg/l	< 0.05	9/ 6/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	9/ 6/19
NO3/NO2	Blank	mg/l	< 0.05	9/ 6/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	9/ 6/19
NO3/NO2	Blank	mg/l	< 0.05	9/ 6/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	9/ 6/19

Andy Schut
Lab Manager/Yakima

Approved by _____

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Account: 20791
Sampler: Rob
Date Sampled: 8/27/19
Date Received: 8/28/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Batch number 997784

-- Duplicate Analysis --

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
Alk.	19-E029248	mg/L	487.	479.	-1.66
Alk.	19-E029474	mg/L	619.	617.	-0.32
Bicarb	19-E029248	mg/L	487.	479.	-1.66
Bicarb	19-E029474	mg/L	619.	617.	-0.32
Carbonate	19-E029248	mg/L	< 5	< 5	0.00
Carbonate	19-E029474	mg/L	< 5	< 5	0.00

Andy Schut
Lab Manager/Yakima

Approved by _____

CASCADE ANALYTICAL
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Account: 20791
Sampler: Rob
Date Sampled: 8/27/19
Date Received: 8/28/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgren
314 W 15th St #300
Vancouver, WA 98626

Batch number 997784

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Alk.	Known	mg/L	98.0	100.	98	9/ 6/19
Alk.	Known	mg/L	98.5	100.	98	9/ 6/19
Bicarb	Known	mg/L	98.0	100.	98	9/ 6/19
Bicarb	Known	mg/L	98.5	100.	98	9/ 6/19
SO4/IC	IPC_Low	mg/L	0.48	0.50	96	8/28/19
SO4/IC	IPC_HI	mg/L	10.0	10.0	100	8/28/19
SO4/IC	LFB	mg/L	8.21	8.00	103	8/28/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	8/28/19
SO4/IC	IPC_HI	mg/L	9.96	10.0	100	8/28/19
SO4/IC	LFB	mg/L	8.21	8.00	103	8/28/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	8/28/19
SO4/IC	IPC_HI	mg/L	9.99	10.0	100	8/28/19
SO4/IC	IPC_Low	mg/L	0.47	0.50	94	9/ 6/19
SO4/IC	IPC_HI	mg/L	9.89	10.0	99	9/ 6/19
SO4/IC	LFB	mg/L	8.06	8.00	101	9/ 6/19
SO4/IC	IPC_low	mg/L	0.47	0.50	94	9/ 6/19
SO4/IC	IPC_HI	mg/L	9.90	10.0	99	9/ 6/19
SO4/IC	LFB	mg/L	8.11	8.00	101	9/ 6/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	9/ 6/19
SO4/IC	IPC_HI	mg/L	9.90	10.0	99	9/ 6/19

Andy Schut
Lab Manager/Yakima

Approved by _____

CASCADE ANALYTICAL, INC.

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Fax: (509) 452-7773

WATER ANALYSIS ORDER FORM

Batch# 997925	SAMPLE # 1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

New Acct. #

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Craig Hultgren Hydrocon	Same as Client
314 W 15th St Suite 300	
Vancouver WA 98626	
SAMPLER'S NAME: Rob Hansberger	PHONE: 206 856-6679

EMAILED 10/9/19 DB

E-mail Craigh@Hydrocon llc.net E-mail

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
	8-29-19				
(Printed) Robert A Hansberger	TIME 0935	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE 8/30/19	RECEIVED BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Signature)	DATE
(Printed) DScott	TIME 3:20	(Printed)	TIME	(Printed)	TIME

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

29477	1	MW28-W	Sample Date 8-28-19
			Sample Time 0750
29472	2	RW01-W	Sample Date 8-28-19
			Sample Time 0815
29473	3	MW20-W	Sample Date 8-28-19
			Sample Time 0720
29474	4	BH03-W	Sample Date 8-28-19
			Sample Time 0815
	5		Sample Date
			Sample Time

***METALS - circle type of analysis - T=total or D=dissolved**
Total N package = TKN, NO_3, NO_2, NH_3
Sample container received by client was sealed Yes_____ No_____
Sample container received by laboratory was sealed Yes_____ No_____

Customer Signature: _____ Date 8-28-19

This form also serves as "Chain of Custody."

CAICOF - 03 REV. 04/26/2013

(see legend on back)

	IRRIGATION WATER	SAMPLE # 1	2	3	4	5
	Standard					
	GENERAL CHEMISTRY					
1135	pH					
1140	Conductivity					
1200	Solids-Dis. (TDS)					
1230	Solids-Susp. (TSS)					
1240	Tot. Phosphorus					
1250	Orthophosphate					
1260	Kjeldahl Nitrogen (TKN)					
1170	Nitrate+Nitrite	X	X	X	X	
1265	NO_3 (As N)					
1280	Ammonia					
1300	Biol. Oxy. Demand					
1310	Chem. Oxy. Demand					
1190	Sulfate (SO4)					
1180	Chloride (Cl)					
1150	Turbidity					
1320	Hexane Ext. Mat.					
1340	Alkalinity					
217	Total N Pkg					
	MICROBIOLOGY					
10040	Total Coliform MF					
10010	Fecal Coliform MF					
10041	Total Coliform MPN					
10011	Fecal Coliform MPN					
	METALS - TOTAL OR DISSOLVED					
1391	Antimony (Sb)					
1011	Arsenic (As)					
1025	Barium (Ba)					
1405	Beryllium (Be)					
1031	Cadmium (Cd)					
1045	Chromium (Cr)					
1215	Copper (Cu)					
1065	Iron (Fe)					
1075	Manganese (Mn)					
1081	Mercury (Hg)					
1435	Molybdenum (Mo)					
1051	Lead (Pb)					
1335	Nickel (Ni)					
1091	Selenium (Se)					
1105	Silver (Ag)					
1381	Thallium (Tl)					
1225	Zinc (Zn)					
	MINERALS					
1120	Calcium (Ca)					
1130	Magnesium (Mg)					
1115	Potassium (K)					
1110	Sodium (Na)					

CASCADE ANALYTICAL
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1008 W. Ahtanum Rd.
Union Gap, WA 98903

Account: 20791
Sampler: Rob
Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997925

-- Blank Analysis --

Analyte	Blank ID	Units	Blank Results	Date Analyzed
SO4/IC	Blank	mg/L	< 0.1	8/30/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/30/19
SO4/IC	Blank	mg/L	< 0.1	8/30/19
SO4/IC	IPC_Blk	mg/L	< 0.1	8/30/19
NO3/NO2	Blank	mg/l	< 0.05	8/30/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/30/19
NO3/NO2	Blank	mg/l	< 0.05	8/30/19
NO3/NO2	IPC_Blk	mg/l	< 0.05	8/30/19

Andy Schut
Lab Manager/Yakima

Approved by _____

CAIRE - 05

CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

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Account: 20791
Sampler: Rob
Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997925

-- Duplicate Analysis --

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
Alk.	19-E029474	mg/L	619.	617.	-0.32
Bicarb	19-E029474	mg/L	619.	617.	-0.32
Carbonate	19-E029474	mg/L	< 5	< 5	0.00

Andy Schut
Lab Manager/Yakima

Approved by _____

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Account: 20791
Sampler: Rob
Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date: 10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997925

-- Spike Results --

Acceptable Limits = 75 - 125 %

Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
SO4/IC	19-E029377	8/30/19	mg/L	4.82	40.0	45.0	100
SO4/IC	19-E029377	8/30/19	mg/L	4.82	40.0	44.9	100

Andy Schut
Lab Manager/Yakima

Approved by _____

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Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Account: 20791
Sampler: Rob
Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997925

-- Matrix Spike Duplicate Results --

Acceptable Limits = 20 % RPD

Analyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Results	% RPD
SO4/IC	8/30/19	mg/L	45.0	44.9	-0.22

Andy Schut
Lab Manager/Yakima

Approved by _____

CAIRE - 05

CASCADE ANALYTICAL
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3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Account: 20791
Sampler: Rob
Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

-- Quality Assurance Report --

HydroCon
Craig Hultgron
314 W 15th St #300
Vancouver, WA 98626

Batch number 997925

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Alk.	Known	mg/L	98.5	100.	98	9/ 6/19
Bicarb	Known	mg/L	98.5	100.	98	9/ 6/19
SO4/IC	IPC_Low	mg/L	0.49	0.50	98	8/30/19
SO4/IC	IPC_HI	mg/L	10.0	10.0	100	8/30/19
SO4/IC	LFB	mg/L	8.10	8.00	101	8/30/19
SO4/IC	IPC_Low	mg/L	0.48	0.50	96	8/30/19
SO4/IC	IPC_HI	mg/L	10.0	10.0	100	8/30/19

Andy Schut
Lab Manager/Yakima

Approved by _____

CAIRE_05

APPENDIX C

DATA QUALITY REVIEW REPORT

TO:	Craig Hultgren, HydroCon
FROM:	Manon Tanner-Dave
DATE:	October 16, 2019
SUBJECT:	Laboratory Validation Report

HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Water Sampling	**Number of Samples:**	30
Laboratory Work Order:	997704, 997725, 997784	**Final Report Date & Time:**	September 9, 2019

Analysis & Method

☐ Gasoline Range Hydrocarbon (NWTPH-Gx)
☒ Diesel Range Hydrocarbon without Silica Gel (NWTPH-Dx) ☐
☐ Diesel Range Organics with Silica Gel (NWTPH-DxSG)
☐ Volatile Organic Compounds (EPA 8260C)
☐ BTEX (EPA 8260C)
☐ Total Manganese (EPA 200.8)
☒ Sulfate (EPA 300.0)
☒ Other – Alkalinity/Bicarbonate/Carbonate (as CaCO3) (SM 2320-B), Nitrate/Nitrite as N (EPA 300.0)

Data Package Completeness:

Data package was complete. Lab QA forms were provided upon request.

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. Samples were received by the lab on the same day as collection on ice.

Surrogate Compounds:

Not applicable.

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

Not applicable.

Associated Laboratory Duplicate:

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

Laboratory Control Sample/Laboratory Control Sample Duplicates:

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

Method Blank:

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

Field Duplicate(s):

Three sets of parent/field duplicate samples were collected and analyzed (MW06-W/MW100-W, MW17-W/MW101-W, and BH01R-W/MW102-W); all RPDs were within control limits, with the following exceptions:

Sample ID Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD	Comments/Qualifiers
MW17-W/MW101-W					
Alkalinity	418	4090	5	163%	J-REP qualify parent and duplicate results.
Bicarbonate	418	4090	5	163%	

Target Analyte List:

All requested analytes were present.

Reporting Limits (MDL and MRL):

Reporting limits were within the acceptance criteria.

Reported Results:

All reported results are acceptable.

Lab Validation Assessment

Analytical results are usable to meet the project objectives.

Data Quality Review Statement for Report

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

Appendix A. Data Validation Qualifiers and Definitions

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

Data Validation Qualifiers and Definitions:

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

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

Appendix B. Data Validation Qualified Summary Table

Appendix B. Validator Qualified Data Summary Table

Sample	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW17-W	19-E029047	SM 2320-B	Alkalinity (as CaCO3)	418	mg/L		J	REP
MW17-W	19-E029047	SM 2320-B	Bicarbonate (as CaCO3)	418	mg/L		J	REP
MW101-W	19-E029048	SM 2320-B	Alkalinity (as CaCO3)	4090	mg/L		J	REP
MW101-W	19-E029048	SM 2320-B	Bicarbonate (as CaCO3)	4090	mg/L		J	REP

TO:	Craig Hultgren, HydroCon
FROM:	Manon Tanner-Dave
DATE:	September 25, 2019
SUBJECT:	Laboratory Validation Report

HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Water Sampling	**Number of Samples:**	32
Laboratory Work Order:	A9H0906	**Final Report Date & Time:**	September 18, 2019

Analysis & Method

- ☒ Gasoline Range Hydrocarbon (NWTPH-Gx)
- ☒ Diesel Range Hydrocarbon without Silica Gel (NWTPH-Dx) ☐
- ☐ Diesel Range Organics with Silica Gel (NWTPH-DxSG)
- ☐ Volatile Organic Compounds (EPA 8260C)
- ☒ BTEX (EPA 8260C)
- ☒ Total Manganese (EPA 200.8)
- ☐ Sulfate (300.0)
- ☒ Other – RSK175

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:

BTEX: The sample “Trip Blank” was analyzed outside of the recommended holding time; results for this sample were qualified as estimated (UJ-HT).

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, with the following exceptions.

NWTPH-Dx: Laboratory control sample duplicate (LCSD) analyzed in place of matrix spike/duplicate samples due to limited sample amount available for analysis.

Matrix Spike Sample Compound	Percent Recovery	Control Limits	Associated Samples	Comments/Qualifiers
90810505-MS3/MW08-W				
Manganese	-41%	70-130%	MW01S-W MW03S-W MW06-W MW08-W MW09R-W MW11-W MW12-W MW13R-W MW14-W MW16-W MW17-W MW20-W MW21-W MW23-W MW24-W MW25-W MW26-W MW27-W MW28-W	Control limits are not applicable; sample concentration >4x the added spike concentration. No qualifiers applied to the results.
9081505-MS4/MW28-W				
Manganese	-69%			
9081522-MS3/BH01-W				
Manganese	-583%	70-130%	MW30-W MW31-W MW32-W BH01-W BH02-W BH03-W RW01-W MW100-W MW101-W MW102-W MW10R-W	Control limits are not applicable; sample concentration >4x the added spike concentration. No qualifiers applied to the results.
9081522-MS4/MW10R-W				
Manganese	230%			

Associated Laboratory Duplicate:

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

Laboratory Control Sample/Laboratory Control Sample Duplicates:

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

Method Blank:

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

One field blank (190827Blank-W) was collected and analyzed; all results were ND for the target analytes.

Field Duplicate(s):

Three sets of parent/field duplicate samples were collected and analyzed (MW06-W/MW100-W, MW17-W/MW101-W, and BH01R-W/MW102-W); all RPDs were within control limits.

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-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
    - J/UJ-Other qualify affected results.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
    - J/UJ-Chrom qualify affected results.
- (F-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
    - J/UJ-Mi qualify affected results.

Laboratory qualifiers for NWTPH-Gx:

- (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.

Lab Validation Assessment

Analytical results are usable to meet the project objectives.

Data Quality Review Statement for Report

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

Appendix A. Data Validation Qualifiers and Definitions

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

Data Validation Qualifiers and Definitions:

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

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

Appendix B. Data Validation Qualified Summary Table

Laboratory qualifiers:

- (F-03) The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
- (F-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.

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.

Appendix B. Validator Qualified Data Summary Table

Sample	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW01S-W	A9H0906-01	NWTPH-Dx	Diesel	269	µg/L	F-11, F-20	J	Other, Mi
MW03S-W	A9H0906-02	NWTPH-Dx	Diesel	114	µg/L	F-11	J	Other
MW06-W	A9H0906-03	NWTPH-Dx	Diesel	1,200	µg/L	F-13	J	Chrom
MW08-W	A9H0906-04	NWTPH-Dx	Diesel	1,320	µg/L	F-13, F-20	J	Chrom, Mi
MW09R-W	A9H0906-05	NWTPH-Dx	Diesel	5,880	µg/L	F-13	J	Chrom
MW11-W	A9H0906-06	NWTPH-Dx	Diesel	1,060	µg/L	F-13, F-20	J	Chrom, Mi
MW13R-W	A9H0906-08	NWTPH-Dx	Diesel	2,180	µg/L	F-11, F-20	J	Other, Mi
MW14-W	A9H0906-09	NWTPH-Dx	Diesel	1,280	µg/L	F-11, F-20	J	Other, Mi
MW16-W	A9H0906-10	NWTPH-Dx	Diesel	349	µg/L	F-11	J	Other
MW17-W	A9H0906-11	NWTPH-Dx	Diesel	6,730	µg/L	F-13	J	Chrom
MW20-W	A9H0906-12	NWTPH-Dx	Diesel	870	µg/L	F-11, F-20	J	Other, Mi
MW21-W	A9H0906-13	NWTPH-Dx	Diesel	605	µg/L	F-11, F-20	J	Other, Mi
MW23-W	A9H0906-14	NWTPH-Dx	Diesel	580	µg/L	F-11	J	Other
MW24-W	A9H0906-15	NWTPH-Dx	Diesel	560	µg/L	F-11, F-20	J	Other, Mi
MW25-W	A9H0906-16RE1	NWTPH-Dx	Diesel	262	µg/L	F-13	J	Chrom
MW26-W	A9H0906-17RE1	NWTPH-Dx	Diesel	266	µg/L	F-13	J	Chrom
MW27-W	A9H0906-18	NWTPH-Dx	Diesel	467	µg/L	F-11	J	Other
MW28-W	A9H0906-19	NWTPH-Dx	Diesel	1,010	µg/L	F-13	J	Chrom
MW30-W	A9H0906-20	NWTPH-Dx	Diesel	557	µg/L	F-13	J	Chrom
MW32-W	A9H0906-22	NWTPH-Dx	Diesel	302	µg/L	F-11	J	Other

BH01-W	A9H0906-23	NWTPH-Dx	Diesel	1,910	µg/L	F-13	J	Chrom
BH02-W	A9H0906-24	NWTPH-Dx	Diesel	6,150	µg/L	F-13	J	Chrom
BH03-W	A9H0906-25	NWTPH-Dx	Diesel	816	µg/L	F-13	J	Chrom
RW01-W	A9H0906-26	NWTPH-Dx	Diesel	116	µg/L	F-11	J	Other
MW100-W	A9H0906-27	NWTPH-Dx	Diesel	1,320	µg/L	F-13	J	Chrom
MW101-W	A9H0906-28	NWTPH-Dx	Diesel	5,800	µg/L	F-13	J	Chrom
MW102-W	A9H0906-29	NWTPH-Dx	Diesel	2,300	µg/L	F-13	J	Chrom
MW10R-W	A9H0906-31	NWTPH-Dx	Diesel	3,620	µg/L	F-13	J	Chrom
MW28-W	A9H0906-19	NWTPH-Gx	Gasoline Range Organics	302	µg/L	F-03	J	Other
Trip Blank	A9H0906-32	EPA 8260C	Benzene	< 0.200	µg/L	U	UJ	HT
Trip Blank	A9H0906-32	EPA 8260C	Toluene	< 1.00	µg/L	U	UJ	HT
Trip Blank	A9H0906-32	EPA 8260C	Ethylbenzene	< 0.500	µg/L	U	UJ	HT
Trip Blank	A9H0906-32	EPA 8260C	Xylenes, total	< 1.50	µg/L	U	UJ	HT

APPENDIX D

WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM

Depth to Water/Depth to Product Measurments
Coleman Oil
Wenatchee, Washington

Date: 8/29/2019

Well ID	Total Well Depth (feet bgs)	Well Diameter (inch)	Screened Interval (feet bgs)	Well Casing Elevation (feet[1])	Depth to Water (feet BTOC)	Depth to Product (feet BTOC)	Sheen Detected (Yes/No)
MW01	35.00	2	20-35	658.01	11.69		
MW01S	19.99	4	5.37 - 20.37	657.54	11.81		
MW02	40.00	2	25-40	657.76	11.65		
MW03	35.00	2	25-35	658.26	7.53		
MW03S	19.30	4	4.43 - 19.43	658.17	7.72		
MW04	37.00	2	27-37	657.48	16.14		
MW05	45.00	2	30-45	656.00	38.00		
MW06	18.00	4	8-18	657.70	10.89		
MW07	20.00	4	10-20	657.52	11.67		
MW08	25.00	4	15-25	656.20	15.96		
MW09R	32.60	4	8.59-33.59	653.55	19.84		
MW10R	33.59	4	14.64-34.64	644.30	25.39		
MW11	22.00	4	12-22	658.00	14.09		
MW12	19.52	4	4.63 - 19.63	658.27	7.70		
MW13R	18.46	4	4.23 - 18.23	656.67	7.61		
MW14	20.02	4	5.23 - 20.23	657.15	8.03		
MW15	35.10	4	10.33 - 35.33	654.99	Dry		
MW16	29.15	4	9.28 - 29.28	656.93	9.89		
MW17	29.41	4	9.52 - 29.52	655.55	14.23		
MW18	34.65	4	15.86 - 35.86	654.51	Dry		
MW19	31.48	4	11.66 - 31.66	653.31	30.45		
MW20	29.50	4	9.79 - 29.79	650.85	25.00		
MW21	32.10	4	12.30 - 32.30	643.88	20.59		
MW22	39.10	4	9.19 - 34.19	641.85	NR		
MW23	22.04	4	7.13 - 22.13	656.91	11.42		
MW24	34.25	4	14.17-34.17	644.38	26.51		
MW25	32.96	4	12.81-32.81	645.57	26.02		
MW26	32.52	4	13.54-33.54	646.65	26.33		
MW27	38.74	4	13.56-38.56	649.00	23.89		
MW28	38.74	4	13.62-38.62	650.64	24.96		
MW29	39.11	4	14.05-39.05	652.34	30.67	Trace	
MW30	39.79	4	14.67-39.67	652.83	35.05		
MW31	39.28	4	14.11-39.11	653.97	34.62		
MW32	34.02	4	8.95-33.95	655.83	12.01		
BH01R	39.97	4	14.52-39.52	651.03	24.64		
BH02	35.00	2	20-35	653.77	28.51		
BH03	30.00	2	15-30	648.76	25.43		
RW01	30.00	3	15-30	650.42	26.80		

NOTES:

feet[1] = Elevation is relative to NGVD88

NR = Not Recorded

bgs = below ground surface

PVC = polyvinyl chloride

BTOC = below top of casing