Risk-Based Closure Report

Klamath Falls Chevron 2
5800 S. 6th Street, Klamath Falls, OR
Oregon LUST ID: 18-22-0170
HydroCon Project Number: 2022-001

Prepared for:
Ed Staub & Sons
1819 S 1st Street
Redmond, OR

March 30, 2022

Prepared by:

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1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon) prepared this risk-based closure report for the facility located at 5800 S. 6th Street in Klamath Falls, Oregon (the Site; Figures 1 through 3). The facility is operated as a commercial Chevron fueling station and is owned by Ed Staub and Sons (ES&S; the Client). The information in this report is based on a baseline site investigation completed by HydroCon on January 14, 2022.

Contamination at the Site is limited to residual petroleum hydocarbons from historical activities and no unacceptable human or ecological risks have been identified at the Site. Additionally, no odors or other nuisance conditions have been identified.

On January 14, 2022, Hydrocon completed a baseline site investigation (SI) to assess soil and groundwater conditions at the Site. Eleven soil borings (HC01 through HC11) were advanced at the site to depths ranging between 10- and 11.5-feet bgs using direct-push drilling methods.

This report presents the results of the SI. A request for a no further action (NFA) determination is provided at the conclusion of the report.

1.1 Property Description and History

The 1,680-square foot Site is located at 5800 S. 6th Street in Klamath Falls, Oregon (Figures 1 and 2). The site includes two underground storage tank (USTs) basins, four pump islands including two satellite cardlock diesel islands, two aboveground storage tanks (ASTs), a cold storage container, an oil-water separator (OWS), parking areas and landscaping. USTs associated with the Site include:

1. One 5,000-gallon gasoline UST;
2. One 6,000-gallon gasoline UST;
3. One 12,000-gallon gasoline UST;
4. One 6,000-gallon diesel UST; and
5. One 12,000-gallon diesel UST.

The surrounding area is predominately used for commercial purposes and other nearby facilities include an oil change facility to the north, a tire center to the northwest, office space to the east and west, and a warehouse and construction yard to the south.

Based on a previous Phase I Environmental Site Assessment[1], the Site was historically undeveloped land as early as 1953, then occupied by a mobile home sales business in the late 1970s to early 1980s. The fueling facility was first developed in 1994.

[1] 2021, AEI. *Phase I Environmental Site Assessment.* 5800 South 6th Street, Klamath Falls, Klamath County, Oregon 97603. September 13.

Based on topography, groundwater flow is expected to be towards the south-southwest.

2.0 SITE ASSESSMENT ACTIVITIES

On January 14, 2022, Hydrocon completed a baseline site investigation to assess soil and groundwater conditions at the Site. The following sections describe the investigation activities.

2.1 Health and Safety Plan

HydroCon prepared a site-specific health and safety plan (HASP) to govern health and safety protocols used during the investigation. The HASP was maintained onsite during field activities. Work was performed using Occupational Safety and Health Administration (OSHA) Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots.

2.2 Underground Utility Locates

Prior to the commencement of subsurface activities, public utility notification was requested through the Oregon One Call service. Additionally, a private locator conducted a survey for underground utilities prior to commencing drilling.

2.3 Drilling and Sampling Activities

On January 14, 2022, eleven soil borings (HC01-HC11) were advanced at the site to depths ranging between 10- and 11.5-feet bgs using direct-push drilling methods for the purpose of soil and groundwater sampling. Boring locations were selected in order to assess baseline soil and groundwater conditions and to identify any potential contamination. Drilling and sampling locations are shown on Figures 2 and 3.

Field screening. Soil from each boring core was continuously field screened for the presence of contamination. Screening consisted of measuring volatile organic compounds (VOCs) using a photoionization detector (PID), sheen testing, as well as olfactory/ visual observations (staining, odor, etc.). Field screening was conducted consistent with SOP 2 (Appendix A). The PID was calibrated before use to a test gas standard consisting of 100 ppm isobutylene. A portion of each soil sample was placed in a sealable plastic bag. The tip of the PID was inserted into the plastic bag in the airspace above the soil sample and the PID measurement was recorded on lithologic boring logs. Sheen testing consisted of placing a small portion of soil in clear water and observing the water for the presence of hydrocarbon sheen.

Field screening by visual/olfactory observation and PID showed evidence of petroleum in two soil borings (5.1 ppm at HC05 at 3-feet bgs; 4 ppm in HC06 at 6-feet bgs) located east and north of the UST basin (Figure 2). No free product was observed.

Soil sampling. One soil sample per boring was submitted to the laboratory based on field screening results, lithologic composition, and depth. In the absence of contamination, samples were collected at the soil-water interface (SWI). Samples were collected at depths ranging from 3- to 7-feet bgs. The selected soil samples were removed from the polyethylene tubing using a new pair of disposable gloves and placed directly into labeled laboratory prepared jars and sealed with Teflon-lined lids. Sampling was consistent with SOP 5 (Appendix A).

Grab groundwater sampling. Groundwater samples (HC01-W through HC011-W) were collected from each boring using temporary well casing consisting of new 1-inch diameter PVC blank riser pipe attached to a 5-foot length of slotted well screen. Groundwater in the borings ranged from 6 to 7.45-feet bgs. The well screen was positioned in the borehole to straddle the water bearing zone. A new length of low-density polyethylene (LDPE) tubing was placed down the temporary well and attached to a peristaltic pump. Water was purged from each respective boring until no further improvement in water clarity is observed. Samples were placed directly into the laboratory-prepared sample jars and stored in a chilled cooler along with chain-of-custody documentation. Sampling was consistent with SOP 11 (Appendix A).

2.4 Boring Abandonment

After completing the sampling activities, PVC casing was removed from the borings which were properly abandoned with hydrated bentonite from the bottom of each borehole to the surface. The surface of each location was made to match the surroundings. Abandonment was conducted consistent with Oregon Water Resource Department (OWRD) requirements.

2.5 Management of Investigation Derived Waste

Investigation derived waste (IDW) in the form or soil and water was containerized in labeled 55-gallon drums and temporarily stored onsite prior to profiling and proper disposal. Solid waste, (used gloves, garbage, disposable equipment, etc.) was placed in plastic garbage bags and disposed of in a dumpster.

3.0 ANALYTICAL PROGRAM AND RESULTS

The soil and groundwater analytical program and results are described in the following sections. Analytical results are summarized on Tables 1 and 2. Sample locations and results are shown on Figures 2 and 3. Laboratory analytical reports are included in Appendix B.

3.1 Analytical Program

The sections below describe soil and groundwater analytical program.

Soil analytical program. Soil samples were initially analyzed for the following:

- Gasoline-range petroleum hydrocarbons (GRPH) using Method NWTPH-Gx 5035A;

- Diesel- and oil-range petroleum hydrocarbons (DRPH and ORPH) using Method NWTPH-Dx; and
- Benzene, toluene, ethylbenzene, xylenes, and naphthalene (BTEX+N) by EPA Method 8260.

Based on initial results one soil sample was also analyzed for:

- Full suite VOCs by EPA Method 8260D.

Groundwater analytical program. Groundwater samples were initially analyzed for the following:

- GRPH using Method NWTPH-Gx; and
- DRPH and ORPH using Method NWTPH-Dx; and
- BTEX+N by EPA Method 8260.

Based on initial results one groundwater sample was also analyzed for:

- Full suite VOCs by EPA Method 8260D
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270.

3.2 Analytical Results

The sections below describe soil and groundwater analytical results.

Soil analytical Results. Soil analytical results show concentrations of GRPH (30 milligrams per kilogram [mg/kg]) in HC03-6.0. The sample was also analyzed for full list VOCs and none were detected above reporting limits. ORPH was detected in samples HC07-5.5, HC08-6.0, and HC09-6.5 (69.7 mg/kg, 462 mg/kg, and 338 mg/kg, respectively. No concentrations of BTEX+N were detected in any of the samples.

Groundwater analytical results. Groundwater analytical results show a concentration of GRPH in one sample (HC03-W @ 179 micrograms per liter [ug/l]). DRPH was detected in two samples (HC02-W @ 113 ug/l and HC03-W @ 214 ug/l) and ORPH was detected in two samples (HC01-W @ 616 ug/l and HC03-W @17.4 ug/l). Benzene was detected in HC02-W (0.3 ug/l) and HC03-W (17.4 ug/l). Additionally, several low concentrations of PAHs were detected in HC03-W.

4.0 CONCEPTUAL SITE MODEL AND RISK SCREENING

A site-specific Conceptual Site Model (CSM) is a site-specific evaluation of potential contaminant sources, exposure pathways, and receptors applicable to the site based on the distribution of constituents, and current and reasonably likely future land and water uses. Exposure pathways, based on DEQ's RBDM guidance document (DEQ, 2017), were assessed for the site utilizing soil and groundwater data, hydrogeologic data, and current and potential future land and water uses.

The Site is zoned General Commercial (IG2). The Site is slated to continue to be used as a commercial fueling facility in the future. No future groundwater uses are likely.

A review of the OWRD well log database shows the nearest water well (KLAM 12490) located over 500-feet to the southeast of the Site. The well is reportedly used as a domestic irrigation well. Due to the distance and cross-gradient location, this well is not likely to be affected by the Site. Groundwater at and near the Site is not currently, or reasonably likely to be used for beneficial purposes in the future. Therefore, related groundwater pathways are not considered complete.

Because the Site includes a building, the vapor intrusion pathway as well as volatilization to outdoor air pathway are considered potentially complete. The groundwater in excavation pathway is also considered potentially complete.

Analytical results were compared to following DEQ Risk-Based Concentrations (RBCs), which are based on exposure pathways that are potentially complete for occupational, construction, and/or excavation worker receptors.

Soil:

- *Soil Ingestion, Dermal Contact, and Inhalation* (occupational, construction, and excavation)
- *Volatilization to Outdoor Air* (occupational)
- *Vapor Intrusion into Buildings* (occupational)

Groundwater:

- *Groundwater in Excavations* (construction and excavation)
- *Volatilization to Outdoor Air* (occupational)
- *Vapor Intrusion into Buildings* (occupational)

The DEQ RBCs for the applicable exposure pathways are included in Tables 1 and 2. None of the detected concentrations exceed the relevant RBCs.

5.0 SUMMARY AND CONCLUSIONS

On January 14, 2022, eleven soil borings (HC01-HC11) were advanced at the site to depths ranging between 10- and 11.5-feet bgs using direct-push drilling methods for the purpose of soil and groundwater sampling. Boring locations were selected in order to assess baseline soil and groundwater conditions and to identify any potential contamination. While GRPH and ORPH were detected in soil, the detections were low, isolated to two samples, and the concentrations do not exceed relevant DEQ RBCs. Similarly, while GRPH, DRPH, ORPH, benzene, and several PAHs were detected in groundwater samples, the detections were limited to three samples, and concentrations are below the relevant DEQ RBCs.

Based on the analytical results, as well as station leak detection and other records, the residual detections are most likely the result of historical overfill or similar events and do not represent a current or on-going

release. Because the facility will remain in use as a commercial fueling facility, and the residual concentrations do not exceed DEQ's RBCs, we request that DEQ consider issuing a NFA determination for LUST number 18-22-0170.

6.0 QUALIFICATIONS

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

Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, 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.

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.

Signature:

Report Prepared By:

Chris Daschel, RG
Project Geologist

Chris Sheridan, RG
Senior Hydrogeologist

FIGURES

NOTE(S):

USGS, ALTAMONT QUADRANGLE,
OREGON - KLAMATH COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)

0 2000 4000

SCALE IN FEET
1" = 2000'

N
W E
S

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DATE: 1-31-2022
DWN: MW
CHK: DB
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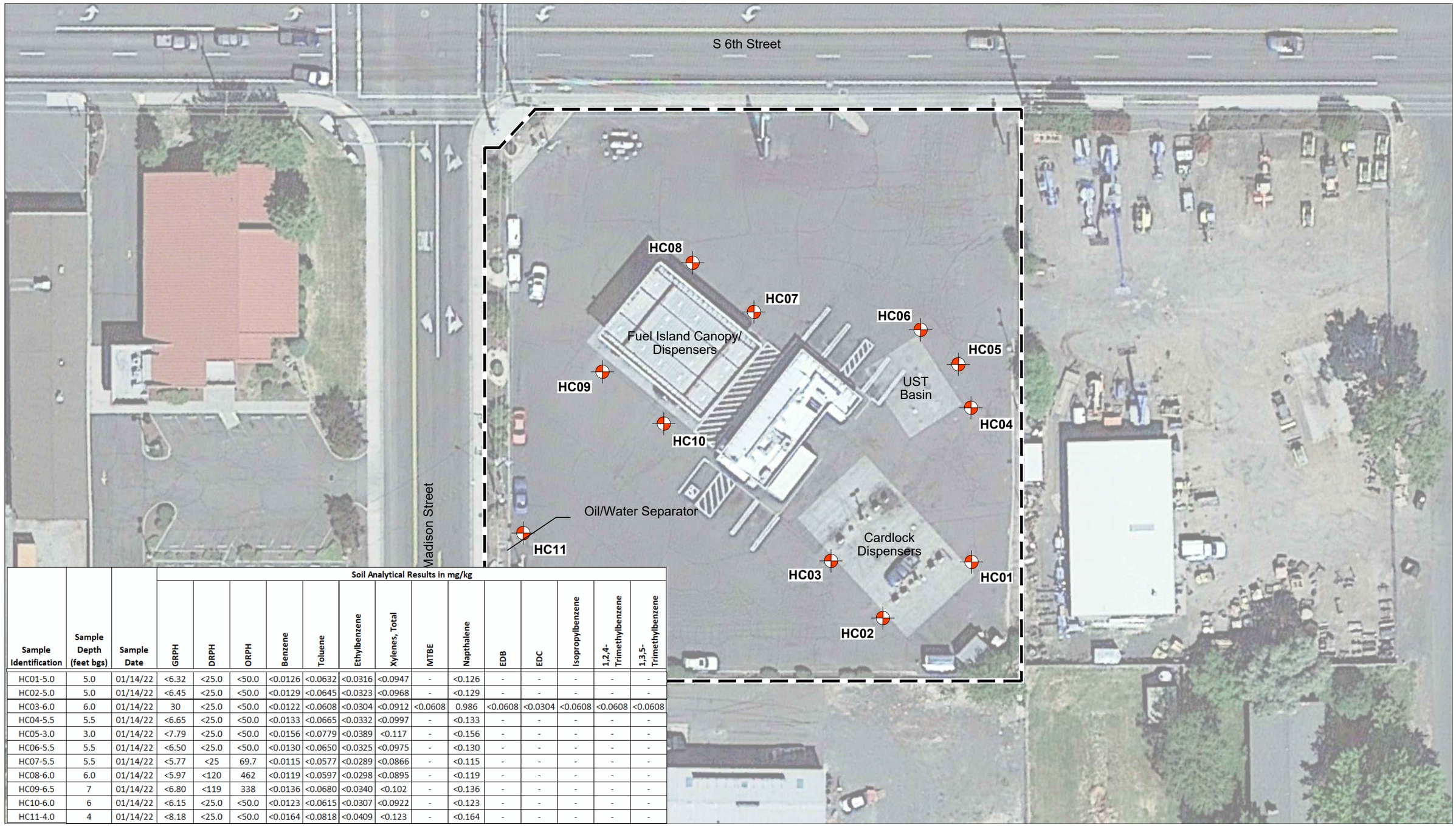
PRJ. MGR: DB
PROJECT NO: 2022-001

FIGURE 1
SITE LOCATION MAP
PHASE II ENVIRONMENTAL SITE ASSESSMENT
ED STAUB AND SONS
5800 S 6TH STREET
KLAMATH FALLS, OREGON

S:\2022 Projects\2022-001 Ed Staub and Sons Multiple Phase II ESAs\Figures\5800 S 6th St, Klamath Falls, OR\S 6th St.dwg



Sample Identification	Sample Depth (feet bgs)	Sample Date	Soil Analytical Results in mg/kg													
			GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylenes, Total	MTBE	Napthalene	EDB	EDC	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
HC01-5.0	5.0	01/14/22	<6.32	<25.0	<50.0	<0.0126	<0.0632	<0.0316	<0.0947	-	<0.126	-	-	-	-	-
HC02-5.0	5.0	01/14/22	<6.45	<25.0	<50.0	<0.0129	<0.0645	<0.0323	<0.0968	-	<0.129	-	-	-	-	-
HC03-6.0	6.0	01/14/22	30	<25.0	<50.0	<0.0122	<0.0608	<0.0304	<0.0912	<0.0608	0.986	<0.0608	<0.0304	<0.0608	<0.0608	<0.0608
HC04-5.5	5.5	01/14/22	<6.65	<25.0	<50.0	<0.0133	<0.0665	<0.0332	<0.0997	-	<0.133	-	-	-	-	-
HC05-3.0	3.0	01/14/22	<7.79	<25.0	<50.0	<0.0156	<0.0779	<0.0389	<0.117	-	<0.156	-	-	-	-	-
HC06-5.5	5.5	01/14/22	<6.50	<25.0	<50.0	<0.0130	<0.0650	<0.0325	<0.0975	-	<0.130	-	-	-	-	-
HC07-5.5	5.5	01/14/22	<5.77	<25	69.7	<0.0115	<0.0577	<0.0289	<0.0866	-	<0.115	-	-	-	-	-
HC08-6.0	6.0	01/14/22	<5.97	<120	462	<0.0119	<0.0597	<0.0298	<0.0895	-	<0.119	-	-	-	-	-
HC09-6.5	7	01/14/22	<6.80	<119	338	<0.0136	<0.0680	<0.0340	<0.102	-	<0.136	-	-	-	-	-
HC10-6.0	6	01/14/22	<6.15	<25.0	<50.0	<0.0123	<0.0615	<0.0307	<0.0922	-	<0.123	-	-	-	-	-
HC11-4.0	4	01/14/22	<8.18	<25.0	<50.0	<0.0164	<0.0818	<0.0409	<0.123	-	<0.164	-	-	-	-	-

Legend

— — Subject Site Property Boundary (Approximate)

HC01 Soil and Groundwater Sample Location

N W E S

0 40 80

SCALE IN FEET
1" = 40'

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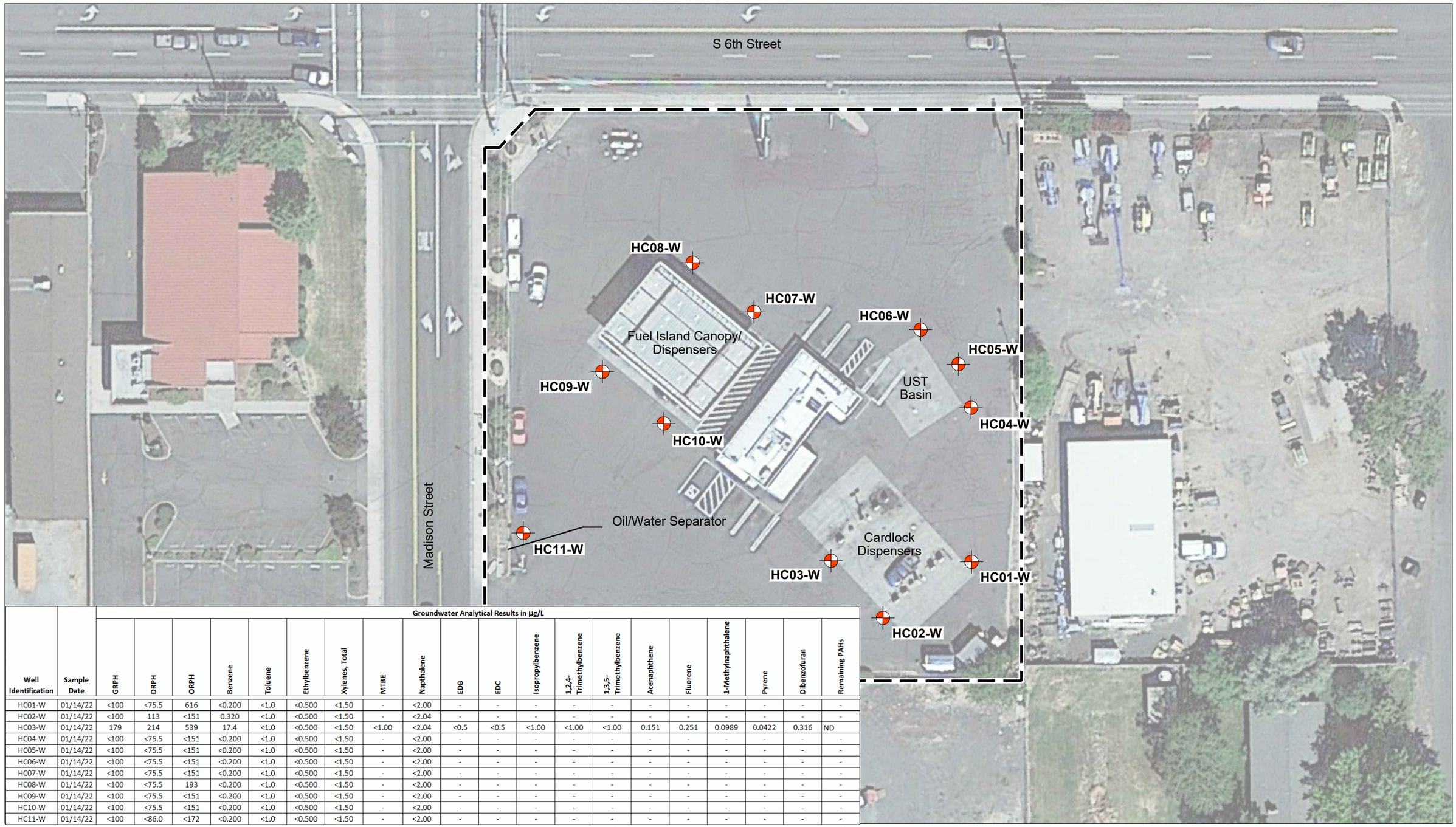
PROJECT NO: 2022-001

FIGURE 3
SOIL SAMPLING LOCATIONS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
ED STAUB AND SONS
5800 S 6TH STREET
KLAMATH FALLS, OREGON

S:\2022 Projects\2022-001 Ed Staub and Sons Multiple Phase II ESAs\Figures\5800 S 6th St, Klamath Falls, OR\S 6th St.dwg



Groundwater Analytical Results in µg/L

Well Identification	Sample Date	GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylenes, Total	MTBE	Napthalene	EDB	EDC	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acenaphthene	Fluorene	1-Methylnaphthalene	Pyrene	Dibenzofuran	Remaining PAHs
HC01-W	01/14/22	<100	<75.5	616	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC02-W	01/14/22	<100	113	<151	0.320	<1.0	<0.500	<1.50	-	<2.04	-	-	-	-	-	-	-	-	-	-	-
HC03-W	01/14/22	179	214	539	17.4	<1.0	<0.500	<1.50	<1.00	<2.04	<0.5	<0.5	<1.00	<1.00	<1.00	0.151	0.251	0.0989	0.0422	0.316	ND
HC04-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC05-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC06-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC07-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC08-W	01/14/22	<100	<75.5	193	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC09-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC10-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC11-W	01/14/22	<100	<86.0	<172	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-

Legend

— — Subject Site Property Boundary (Approximate)

HC01 Soil and Groundwater Sample Location

N W E S

0 40 80

SCALE IN FEET
1" = 40'

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DATE: 1-31-2022
DWN: MW
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APPROVED: DB
PRJ. MGR: DB
PROJECT NO: 2022-001

FIGURE 3
GROUNDWATER SAMPLING LOCATIONS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
ED STAUB AND SONS
5800 S 6TH STREET
KLAMATH FALLS, OREGON

S:\2022 Projects\2022-001 Ed Staub and Sons Multiple Phase II ESAs\Figures\5800 S 6th St, Klamath Falls, OR\S 6th StREV01.dwg

TABLES

Table 1

Summary of Soil Analytical Data

5800 S 6th Street, Klamath Falls, Oregon

Sample Identification	Sample Depth (feet bgs)	Sample Date	Soil Analytical Results in mg/kg												
			GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylenes, Total	MTBE	Napthalene	EDB	EDC	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
HC01-5.0	5.0	01/14/22	<6.32	<25.0	<50.0	<0.0126	<0.0632	<0.0316	<0.0947	-	<0.126	-	-	-	-	-
HC02-5.0	5.0	01/14/22	<6.45	<25.0	<50.0	<0.0129	<0.0645	<0.0323	<0.0968	-	<0.129	-	-	-	-	-
HC03-6.0	6.0	01/14/22	**30**	<25.0	<50.0	<0.0122	<0.0608	<0.0304	<0.0912	<0.0608	0.986	<0.0608	<0.0304	<0.0608	<0.0608	<0.0608
HC04-5.5	5.5	01/14/22	<6.65	<25.0	<50.0	<0.0133	<0.0665	<0.0332	<0.0997	-	<0.133	-	-	-	-	-
HC05-3.0	3.0	01/14/22	<7.79	<25.0	<50.0	<0.0156	<0.0779	<0.0389	<0.117	-	<0.156	-	-	-	-	-
HC06-5.5	5.5	01/14/22	<6.50	<25.0	<50.0	<0.0130	<0.0650	<0.0325	<0.0975	-	<0.130	-	-	-	-	-
HC07-5.5	5.5	01/14/22	<5.77	<25	**69.7**	<0.0115	<0.0577	<0.0289	<0.0866	-	<0.115	-	-	-	-	-
HC08-6.0	6.0	01/14/22	<5.97	<120	**462**	<0.0119	<0.0597	<0.0298	<0.0895	-	<0.119	-	-	-	-	-
HC09-6.5	7	01/14/22	<6.80	<119	**338**	<0.0136	<0.0680	<0.0340	<0.102	-	<0.136	-	-	-	-	-
HC10-6.0	6	01/14/22	<6.15	<25.0	<50.0	<0.0123	<0.0615	<0.0307	<0.0922	-	<0.123	-	-	-	-	-
HC11-4.0	4	01/14/22	<8.18	<25.0	<50.0	<0.0164	<0.0818	<0.0409	<0.123	-	<0.164	-	-	-	-	-
Applicable DEQ Risk-Based Concentrations[1]																
Vapor Intrusion into Buildings (RBC $_{si}$)																
Occupational			>Max	>Max	>Max	2.1	>538	17	>358	110	83	0.16	1	>335	210	>Max
Volatilization to Outdoor Air (RBC $_{so}$)																
Occupational			69,000	>Max	>Max	50	>538	160	>358	1500	83	0.65	15	>335	980	>Max
Soil Ingestion, Dermal Contact, and Inhalation (RBC $_{ss}$)																
Occupational Worker			20,000	14,000	36,000	37	88,000	150	25,000	1,100	23	0.73	16	57,000	2,000	12,000
Construction Worker			9,700	4,600	11,000	380	28,000	1,700	20,000	12,000	580	9	580	580	580	580
Excavation Worker			>Max	>Max	>Max	11,000	770,000	49,000	560,000	320,000	16,000	250	16,000	16,000	16,000	16,000

NOTES:

bgs = below ground surface

Chemical analyses performed by APEX Labs of Tigard, Oregon.

Gasoline-Range Total Petroleum Hydrocarbons (GRPH) analyzed by Northwest Method NWTPH-Gx.

Diesel-Range Total Petroleum Hydrocarbons (DRPH) analyzed by Northwest Method NWTPH-Dx.

Oil-Range Total Petroleum Hydrocarbons (ORPH) analyzed by Northwest Method NWTPH-Dx.

BTEX + Napthalene analyzed by EPA Method 8260D.

[1]Oregon Department of Environmental Quality (DEQ). Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

mg/kg = milligrams per kilogram (parts per million)

Bold indicates analyte detection exceeds one or more RBC.

"<6.09" indicates the analyte was not detected above the laboratory reporting limit.

>Csat = this soil RBC exceeds the limit of three-phase equillibrium partitioning.

>Max = this constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Therefore, this substance is deemed to not pose risks in this scenario.

* - Sample flagged as results for diesel range is due to overlap from gasoline range product.

Table 2

Summary of Groundwater Analytical Data

5800 S 6th Street, Klamath Falls, Oregon

Well Identification	Sample Date	Groundwater Analytical Results in µg/L																		
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylenes, Total	MTBE	Napthalene	EDB	EDC	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acenaphthene	Fluorene	1-Methylnaphthalene	Pyrene	Dibenzofuran	Remaining PAHs
HC01-W	01/14/22	<100	<75.5	**616**	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC02-W	01/14/22	<100	**113**	<151	**0.320**	<1.0	<0.500	<1.50	-	<2.04	-	-	-	-	-	-	-	-	-	-	-
HC03-W	01/14/22	**179**	**214**	**539**	**17.4**	<1.0	<0.500	<1.50	<1.00	<2.04	<0.5	<0.5	<1.00	<1.00	<1.00	**0.151**	**0.251**	**0.0989**	**0.0422**	**0.316**	ND
HC04-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC05-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC06-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC07-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC08-W	01/14/22	<100	<75.5	193	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC09-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC10-W	01/14/22	<100	<75.5	<151	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
HC11-W	01/14/22	<100	<86.0	<172	<0.200	<1.0	<0.500	<1.50	-	<2.00	-	-	-	-	-	-	-	-	-	-	-
Applicable DEQ Risk-Based Concentrations[1]																					
Vapor Intrusion into Buildings (RBC $_{wi}$)																					
Occupational		>150,000	>80,000	>100,000	2,800	>526,000	8,200	>106,000	870,000	11,000	590	3,900	>61,300	>57,000	>48,200	>3,900	>1,690	>25,000	NV	-	-
Volatilization to Outdoor Air (RBC $_{wo}$)																					
Occupational		>150,000	>80,000	>100,000	14,000	>526,000	43,000	>106,000	1,500,000	16,000	790	9,000	>61,300	>57,000	>48,200	>3,900	>1,690	>25,000	NV	-	-
Groundwater in Excavation (RBC $_{we}$)																					
Cons. & Exc. Worker		14,000	>80,000	>100,000	1,800	220,000	4,500	23,000	63,000	500	27	630	51,000	1,700	15,000	>3,900	>1,690	>25,000	NV	-	-

NOTES:

Chemical analyses performed by APEX Labs of Tigard, Oregon.

Gasoline-Range Total Petroleum Hydrocarbons (GRPH) analyzed by Northwest Method NWTPH-Gx.

Diesel-Range Total Petroleum Hydrocarbons (DRPH) analyzed by Northwest Method NWTPH-Dx.

Oil-Range Total Petroleum Hydrocarbons (ORPH) analyzed by Northwest Method NWTPH-Dx.

RBDM Compunds analyzed by EPA Method 8260CD

[1]Oregon Department of Environmental Quality (DEQ). Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

µg/L = micrograms per liter (parts per billion)

Bold indicates analyte detection exceeds one or more RBC.

"<100" indicates the analyte was not detected above the laboratory reporting limit.

>S = this groundwater RBC exceeds the solubility limit.

* - Sample flagged as results for diesel range is due to overlap from gasoline range product.

APPENDIX A

STANDARD OPERATING PROCEDURES

STANDARD OPERATING PROCEDURE SOP - 02

HYDROCARBON FIELD SCREENING

GENERAL

This standard operating procedure (SOP) presents the qualitative field screening methods for hydrocarbons in soil. Field screening results are site-specific. The results may vary with soil type, soil moisture and organic content, ambient air temperature, and type of contaminant.

Field screening will be conducted on soil samples obtained from exploratory boreholes or excavations. Field screening results are used as a general guideline to delineate areas with potential residual hydrocarbons in soils. In addition, field screening results are used as a basis for selecting soil samples for chemical analysis. The field screening methods employed include 1) visual examination, 2) sheen testing, and 3) headspace vapor testing using an Mini Rae 2000 photoionization detector (PID) (or equivalent) calibrated to isobutylene. Sheen testing and headspace vapor testing are more sensitive screening methods that have been effective in detecting hydrocarbon concentrations below typical underground storage tank (UST) regulatory cleanup guidelines. The results of headspace and sheen screening should be included on the borehole logs or field notes.

VISUAL SCREENING

Visual screening consists of inspecting the soil for the presence of stains indicative of residual petroleum hydrocarbons. Visual screening is generally more effective in detecting the presence of heavier petroleum hydrocarbons, such as motor oil, or when hydrocarbon concentrations are high. Indications of the presence of hydrocarbons typically include a mottled appearance or dark discoloration of the soil.

SHEEN TESTING

Sheen testing involves immersion of the soil sample in water and observing the water surface for signs of sheen. A representative soil sample is placed into a clean stainless steel or plastic pan filled with clean water with as little disturbance as possible. Visual evidence of sheen forming on the surface of the water is classified as follows:

- No sheen (NS): No visible sheen on the water surface

- Colorless Sheen (CS): Light, nearly colorless sheen; spread is irregular, not rapid; film dissipates rapidly (Note: light colorless sheens can be confused with sheens produced by organic content). Note that this sheen may or may not indicate the presence hydrocarbons.

- Heavy Sheen (HS): Light to heavy colorful film with iridescence; stringy, spread is rapid; sheen flows off the sample; most or all of water surface is covered with sheen

Following the sheen test, the pan must be decontaminated with methanol and distilled water prior to the next sampling event.

HEADSPACE VAPOR SCREENING

Headspace vapor screening involves placing a small representative soil sample in a plastic sample bag. The sealed sample bag should be allowed to sit at ambient temperature for approximately ten minutes. The sample bag is then shaken slightly to promote volatilization to the air trapped in the bag. The probe of a PID equipped with a 10.6 eV bulb or equivalent, calibrated to isobutylene, is inserted into the bag to withdraw air from the bag. The instrument measures the concentration of organic vapors within the sample bag headspace in parts per million (ppm).

STANDARD OPERATING PROCEDURE SOP - 05

GEOPROBE SOIL SAMPLING

1.0 General

Continuous or discrete soil samples can be collected using direct-push "GeoProbe"[R] equipment and techniques. The GeoProbe equipment is mounted on a one-ton van or similar small truck. Borings are advanced by hydraulically pushing or hammering small-diameter steel rods into the subsurface. Sampling rods vary in outside diameter between two inches and 0.75 inches. Specialized tools are added to the base of the rod string in order to collect soil, groundwater, and/or vapor samples.

All soil samples are collected in new, dedicated clear acrylic liners placed inside the steel drive rods. Continuous soil sample cores can be collected as the rods are advanced. To collect discrete soil samples, the drive rods are advanced to the desired sampling depth with a disposable steel drive point blocking the sampler. A threaded pin locking the drive point can then be removed and soil then enters the sample rod/tube assembly as the rod string is advanced. Sample rods/tubes are typically four feet in length, and must be removed from the open hole to collect the sample. Sampling equipment is then decontaminated, a new drive point is locked into place, and the rod assembly is driven back into the open hole to the new desired sampling interval.

1.1 Sample Collection Methodology

The following standard procedures are followed during sample collection:

- The recovered sample tube is opened on a clean surface using a decontaminated knife or specialized cutter. Representative soils are quickly transferred to appropriate sample containers and sample disturbance is minimized. Each sample container is immediately labeled and sealed.
- Representative portions of each soil sample are transferred from the sample tube to new zip-lock type plastic bags or polyethylene bags and sealed. Volatile head-space vapor readings are then measured as described in the SOP 1 (Hydrocarbon Field Screening for Soil). After head-space measurements have been recorded, a small volume of clean water is added to the soil. After agitation, the soil-water mixture is observed for visible sheen.
- Soil observed through the sample interval is then logged according to HC's format described in the SOP.
- Following sample collection and logging, the sample rods and equipment are decontaminated in an isolated and dedicated area as follows.

- All re-usable sampling equipment and down-hole equipment will be decontaminated using a hot pressure washer or in a solution of water and non-phosphatic detergent.
- The sampling equipment will be rinsed with distilled or de-ionized water following washing.

STANDARD OPERATING PROCEDURE SOP - 11

LOW-FLOW PERISTALTIC PUMP GROUNDWATER SAMPLING

1.0 General

This standard operating procedure is designed to assist the technician in taking representative groundwater samples from monitoring wells. Groundwater samples will be collected using low-flow (minimal drawdown) purging and sampling methods as discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, July 1996 by Puls, R.W. and M.J. Barcelona - "Low Stress (low flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells."

The sampler's objective is to purge and sample the well so that the water that is discharged from the pump, and subsequently collected, is representative of the formation water from the aquifer's identified zone of interest.

1.1 Initial Pump Flow Test Procedures

Measure and record the Static Water Level (SWL) on field data sheet following the procedures outlined in SOP 9.

The appropriate tubing type (Teflon, HDPE, PVC, polyethylene, etc.) should be preselected based on the analytes of interest.

The mid-point of the saturated screen length is used by convention as the location of the tubing intake. Site specific work plans may change the location of sample intake depth in order to sample from the highest yielding zone within the screened interval. In wells with a fully saturated screen length over 10 feet, testing should be performed if possible during development to determine highest water yielding zone within screened interval.

After tubing installation and confirmation that the SWL has returned to its original level (as determined prior to tubing installation), the peristaltic pump should be started at a discharge rate less than 0.5 liters per minute (0.13 gal/min) without any In-Line Flow Cell connected. The water level in the well casing must be monitored continuously for any change from the original measurement. If significant drawdown is observed, the pump's flow rate should be reduced until the SWL drawdown stabilizes. Total drawdown from the initial (static) water level should not exceed 0.3 feet. In any case, the water level in the well should not be lowered below the top of the screen/intake zone of the well.

Once the specific well's optimum flow rate has been determined and documented, connect the In-Line Flow Cell system (if available) to be used to the well discharge and determine the control settings required to achieve the well's determined optimum flow rate with the In-Line Flow Cell connected (due to the system's back-pressure, the flow rate will be decreased by 10 to 20 percent).

1.2 Purge and Sampling Events

Prior to the initiation of purging a well, the SWL will be measured and documented. The peristaltic pump will be started utilizing its documented control settings and its flow rate will be confirmed by volumetric discharge measurement with the In-Line Flow Cell connected. If necessary, any minor modifications to the control settings to achieve the well's optimum flow rate will be documented on the appropriate field form. When the optimum pump flow rate has been established, the SWL drawdown has stabilized within the required range, and at least one pump system volume (down well extraction tubing, pump head tubing, and discharge tubing volume) has been purged, begin taking field measurements for pH, temperature (T), conductivity (Ec), oxygen reduction potential (ORP), dissolved oxygen (DO), and turbidity (TU) using an in-line flow cell or if unavailable individual water quality meters. All water chemistry field measurements will be documented on the appropriate field form. Measurements should be taken every three to five minutes until stabilization has been achieved. Stabilization is achieved after all parameters have stabilized for three consecutive readings. In lieu of measuring all five parameters, a minimum subset would include pH, conductivity, and turbidity or dissolved oxygen. Three consecutive measurements indicating stability should be within:

Temperature	± 3% of reading (min ± 0.2° C)
pH	± 0.1 units, min
Conductance	± 3% of reading
Dissolved Oxygen	± 10% of reading
Redox	± 10 mV
Turbidity	± 10% NTU or <10 NTU

When water quality parameters have stabilized, and there has been no change in the stabilized SWL (i.e., no continuous drawdown), sample collection may begin.

1.3 Field Procedures

A summary of field procedures used to collect groundwater samples using a peristaltic pump is provided below.

- Calibrate all field instruments at the start of each day following the instrument manufacturer's instructions. Record calibration data on field form.
- Prior to use at each well, decontaminate all instruments that will be lowered in the well (electronic water level indicator and/or oil/water interface probe) by washing with phosphate-free detergent, rinsing with potable water, and rinsing with deionized water.
- Make notes in the appropriate field form documenting condition of the well and activity in the vicinity of the well.
- Measure the depth to water from the surveyed reference mark on the wellhead and record the measurement on the appropriate field form. Lock the water level meter in place so that the level can be monitored during purging and sampling.
- Place a new length of disposable sampling tubing into the well casing so that the tip of the tubing is located at appropriate sampling depth within the well screen.
- Place a new length of silicone tubing into the peristaltic pump head fixture.
- Connect the sample tubing to the influent end of the silicone tubing in the peristaltic pump head fixture.
- Place a new length of disposable sample tubing to the effluent end of the silicone tubing on the peristaltic pump and secure to drain the water purged from the well into the collection container (i.e., 5 gallon bucket).
- Start the peristaltic pump. Set the pump controller settings to the appropriate settings for the specific well. Confirm the flow rate is equal to the well's established optimum flow rate. Modify as necessary (documenting any required modifications).
- Monitor the water level and confirm that the SWL drawdown has stabilized within the well's allowable limits.
- Remove the pump discharge tubing.
- Connect the pump discharge tubing to the In-Line flow cells "IN" fitting.
- Connect the Flow Cell's "OUT" line and secure to drain the water purged from the well into the collection container (i.e., 5 gallon bucket).
- After purging the first system volume (down well sampling tubing, pump head silicone tubing, and discharge tubing volume) record the water quality field measurements every three to five minutes until all parameters have stabilized within their allowable ranges for at least three consecutive measurements. Begin sampling after stabilization has been achieved.
- Disconnect the flow cell and tubing from the pump discharge line before collecting samples. Decrease the pump rate to 100 milliliters per minute or less by lowering the pump controller's setting prior to collecting samples for volatiles. Place the samples in a chilled cooler with enough blue ice or ice to keep the temperature at 4 degrees Centigrade.
- Once samples for volatiles have been collected, re-establish pump flow rate to the original purge flow rate by inputting the documented controller settings for the well without the In-Line Flow Cell connected, and collect remaining samples.
- Consolidate purge water into a labeled 55-gallon drum(s).

- Remove and decontaminate the electronic water level indicator with phosphate-free detergent, rinsing with potable water and rinsing with deionized water.
- Disconnect and dispose the sample and silicone tubing used to collect the sample.
- Secure the peristaltic pump in the portable pump carrying case.
- Place the wellhead cover on the well and secure with a lock.
- Move equipment to next well to be sampled and repeat.
- At the end of each dayclean and decontaminate the In-Line Flow Cell with phosphate-free detergent, rinsing with potable water, and rinsing with deionized water.
- Make a photocopy of all completed field forms. The copies should be retained on site. The original forms will be kept in the HC's project file.

1.4 Equipment List

The following equipment is needed to conduct low flow purging and sampling:

- Peristaltic pump equipped with a flow controller.
- Appropriate amount of disposable sample tubing to collect groundwater samples from each well at the site.
- In-Line Flow Cell and meter(s) with connection fittings and tubing to measure water quality.
- Water quality meters as backup in-case of in-line flow cell malfunction.
- Photoionization detector (PID).
- Electronic Water Level Indicator Probe.
- Laboratory-prepared sample containers appropriate for the analytical requirements.
- Field documentation forms.
- Measuring cup.
- Five gallon bucket(s) for containerizing purge water.
- Stopwatch.
- Cleaning and decontamination supplies.

APPENDIX B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

Tuesday, February 8, 2022

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

RE: A2A0604 - ES&S 5800 S 6th St K Falls - 2022-001C

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 A2A0604, which was received by the laboratory on 1/17/2022 at 8:09:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.2 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

Cameron O'Brien, Project 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
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HC01-5.0	A2A0604-01	Soil	01/14/22 10:00	01/17/22 08:09
HC02-5.0	A2A0604-02	Soil	01/14/22 11:00	01/17/22 08:09
HC03-6.0	A2A0604-03	Soil	01/14/22 11:40	01/17/22 08:09
HC04-5.5	A2A0604-04	Soil	01/14/22 12:45	01/17/22 08:09
HC05-3.0	A2A0604-05	Soil	01/14/22 13:10	01/17/22 08:09
HC06-5.5	A2A0604-06	Soil	01/14/22 13:55	01/17/22 08:09
HC07-5.5	A2A0604-07	Soil	01/14/22 15:05	01/17/22 08:09
HC08-6.0	A2A0604-08	Soil	01/14/22 15:30	01/17/22 08:09
HC09-6.5	A2A0604-09	Soil	01/14/22 15:45	01/17/22 08:09
HC10-6.0	A2A0604-10	Soil	01/14/22 16:00	01/17/22 08:09
HC11-4.0	A2A0604-11	Soil	01/14/22 16:25	01/17/22 08:09

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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
HC01-5.0 (A2A0604-01)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/18/22 00:02	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/18/22 00:02	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 66 %*		*Limits: 50-150 %*	*1*	*01/18/22 00:02*	*NWTPH-Dx*	
HC02-5.0 (A2A0604-02)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/18/22 00:23	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/18/22 00:23	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 66 %*		*Limits: 50-150 %*	*1*	*01/18/22 00:23*	*NWTPH-Dx*	
HC03-6.0 (A2A0604-03)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/18/22 00:45	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/18/22 00:45	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 72 %*		*Limits: 50-150 %*	*1*	*01/18/22 00:45*	*NWTPH-Dx*	
HC04-5.5 (A2A0604-04)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	26.0	mg/kg dry	1	01/18/22 01:06	NWTPH-Dx	
Oil	ND	---	52.1	mg/kg dry	1	01/18/22 01:06	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 73 %*		*Limits: 50-150 %*	*1*	*01/18/22 01:06*	*NWTPH-Dx*	
HC05-3.0 (A2A0604-05)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/18/22 01:27	NWTPH-Dx	
Oil	ND	---	50.1	mg/kg dry	1	01/18/22 01:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 65 %*		*Limits: 50-150 %*	*1*	*01/18/22 01:27*	*NWTPH-Dx*	
HC06-5.5 (A2A0604-06)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/22 21:33	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/22 21:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 64 %*		*Limits: 50-150 %*	*1*	*01/17/22 21:33*	*NWTPH-Dx*	
HC07-5.5 (A2A0604-07RE1)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/18/22 09:06	NWTPH-Dx	
Oil	**69.7**	---	50.0	mg/kg dry	1	01/18/22 09:06	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 79 %*		*Limits: 50-150 %*	*1*	*01/18/22 09:06*	*NWTPH-Dx*	
HC08-6.0 (A2A0604-08RE1)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	120	mg/kg dry	5	01/18/22 08:25	NWTPH-Dx	

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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
HC08-6.0 (A2A0604-08RE1)				**Matrix: Soil**		**Batch: 22A0583**		
Oil	**462**	---	240	mg/kg dry	5	01/18/22 08:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 77 %*	*Limits: 50-150 %*		*5*	*01/18/22 08:25*	*NWTPH-Dx*	*S-05*
HC09-6.5 (A2A0604-09RE1)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	119	mg/kg dry	5	01/18/22 09:06	NWTPH-Dx	
Oil	**338**	---	238	mg/kg dry	5	01/18/22 09:06	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 76 %*	*Limits: 50-150 %*		*5*	*01/18/22 09:06*	*NWTPH-Dx*	*S-05*
HC10-6.0 (A2A0604-10)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.0	mg/kg dry	1	01/17/22 22:59	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	01/17/22 22:59	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 80 %*	*Limits: 50-150 %*		*1*	*01/17/22 22:59*	*NWTPH-Dx*	
HC11-4.0 (A2A0604-11)				**Matrix: Soil**		**Batch: 22A0583**		
Diesel	ND	---	25.6	mg/kg dry	1	01/17/22 23:20	NWTPH-Dx	
Oil	ND	---	51.1	mg/kg dry	1	01/17/22 23:20	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 80 %*	*Limits: 50-150 %*		*1*	*01/17/22 23:20*	*NWTPH-Dx*	

Apex Laboratories

Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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
HC01-5.0 (A2A0604-01)				**Matrix: Soil**		**Batch: 22A0601**		
Gasoline Range Organics	ND	---	6.32	mg/kg dry	50	01/18/22 16:38	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*103 %*	*Limits: 50-150 %*	*1*	*01/18/22 16:38*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*01/18/22 16:38*	*NWTPH-Gx (MS)*	
HC02-5.0 (A2A0604-02)				**Matrix: Soil**		**Batch: 22A0601**		
Gasoline Range Organics	ND	---	6.45	mg/kg dry	50	01/18/22 17:05	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*104 %*	*Limits: 50-150 %*	*1*	*01/18/22 17:05*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*01/18/22 17:05*	*NWTPH-Gx (MS)*	
HC03-6.0 (A2A0604-03)				**Matrix: Soil**		**Batch: 22A0601**		
Gasoline Range Organics	**30.4**	---	6.08	mg/kg dry	50	01/18/22 17:32	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*105 %*	*Limits: 50-150 %*	*1*	*01/18/22 17:32*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*01/18/22 17:32*	*NWTPH-Gx (MS)*	
HC04-5.5 (A2A0604-04)				**Matrix: Soil**		**Batch: 22A0601**		
Gasoline Range Organics	ND	---	6.65	mg/kg dry	50	01/18/22 17:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*104 %*	*Limits: 50-150 %*	*1*	*01/18/22 17:59*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*109 %*	*50-150 %*	*1*	*01/18/22 17:59*	*NWTPH-Gx (MS)*	
HC05-3.0 (A2A0604-05)				**Matrix: Soil**		**Batch: 22A0601**		
Gasoline Range Organics	ND	---	7.79	mg/kg dry	50	01/18/22 18:26	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*104 %*	*Limits: 50-150 %*	*1*	*01/18/22 18:26*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*110 %*	*50-150 %*	*1*	*01/18/22 18:26*	*NWTPH-Gx (MS)*	
HC06-5.5 (A2A0604-06)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	6.50	mg/kg dry	50	01/18/22 14:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*115 %*	*Limits: 50-150 %*	*1*	*01/18/22 14:04*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*105 %*	*50-150 %*	*1*	*01/18/22 14:04*	*NWTPH-Gx (MS)*	
HC07-5.5 (A2A0604-07)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	5.77	mg/kg dry	50	01/18/22 14:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*116 %*	*Limits: 50-150 %*	*1*	*01/18/22 14:59*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*01/18/22 14:59*	*NWTPH-Gx (MS)*	
HC08-6.0 (A2A0604-08)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	5.97	mg/kg dry	50	01/18/22 15:53	NWTPH-Gx (MS)	

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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
HC08-6.0 (A2A0604-08)				**Matrix: Soil**		**Batch: 22A0591**		
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*117 %*	*Limits: 50-150 %*	*1*	*01/18/22 15:53*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*01/18/22 15:53*	*NWTPH-Gx (MS)*	
HC09-6.5 (A2A0604-09)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	6.80	mg/kg dry	50	01/18/22 16:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*114 %*	*Limits: 50-150 %*	*1*	*01/18/22 16:20*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*102 %*	*50-150 %*	*1*	*01/18/22 16:20*	*NWTPH-Gx (MS)*	
HC10-6.0 (A2A0604-10)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	6.15	mg/kg dry	50	01/18/22 16:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*114 %*	*Limits: 50-150 %*	*1*	*01/18/22 16:47*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*01/18/22 16:47*	*NWTPH-Gx (MS)*	
HC11-4.0 (A2A0604-11)				**Matrix: Soil**		**Batch: 22A0591**		
Gasoline Range Organics	ND	---	8.18	mg/kg dry	50	01/18/22 17:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery:*	*117 %*	*Limits: 50-150 %*	*1*	*01/18/22 17:14*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*	*1*	*01/18/22 17:14*	*NWTPH-Gx (MS)*	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC01-5.0 (A2A0604-01)				**Matrix: Soil**		**Batch: 22A0601**		
Benzene	ND	---	0.0126	mg/kg dry	50	01/18/22 16:38	5035A/8260D	
Toluene	ND	---	0.0632	mg/kg dry	50	01/18/22 16:38	5035A/8260D	
Ethylbenzene	ND	---	0.0316	mg/kg dry	50	01/18/22 16:38	5035A/8260D	
Xylenes, total	ND	---	0.0947	mg/kg dry	50	01/18/22 16:38	5035A/8260D	
Naphthalene	ND	---	0.126	mg/kg dry	50	01/18/22 16:38	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits: 80-120 %*	*1*	*01/18/22 16:38*	*5035A/8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*01/18/22 16:38*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*79-120 %*	*1*	*01/18/22 16:38*	*5035A/8260D*	
HC02-5.0 (A2A0604-02)				**Matrix: Soil**		**Batch: 22A0601**		
Benzene	ND	---	0.0129	mg/kg dry	50	01/18/22 17:05	5035A/8260D	
Toluene	ND	---	0.0645	mg/kg dry	50	01/18/22 17:05	5035A/8260D	
Ethylbenzene	ND	---	0.0323	mg/kg dry	50	01/18/22 17:05	5035A/8260D	
Xylenes, total	ND	---	0.0968	mg/kg dry	50	01/18/22 17:05	5035A/8260D	
Naphthalene	ND	---	0.129	mg/kg dry	50	01/18/22 17:05	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*110 %*	*Limits: 80-120 %*	*1*	*01/18/22 17:05*	*5035A/8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*01/18/22 17:05*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*97 %*	*79-120 %*	*1*	*01/18/22 17:05*	*5035A/8260D*	
HC04-5.5 (A2A0604-04)				**Matrix: Soil**		**Batch: 22A0601**		
Benzene	ND	---	0.0133	mg/kg dry	50	01/18/22 17:59	5035A/8260D	
Toluene	ND	---	0.0665	mg/kg dry	50	01/18/22 17:59	5035A/8260D	
Ethylbenzene	ND	---	0.0332	mg/kg dry	50	01/18/22 17:59	5035A/8260D	
Xylenes, total	ND	---	0.0997	mg/kg dry	50	01/18/22 17:59	5035A/8260D	
Naphthalene	ND	---	0.133	mg/kg dry	50	01/18/22 17:59	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*110 %*	*Limits: 80-120 %*	*1*	*01/18/22 17:59*	*5035A/8260D*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*01/18/22 17:59*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*97 %*	*79-120 %*	*1*	*01/18/22 17:59*	*5035A/8260D*	
HC05-3.0 (A2A0604-05)				**Matrix: Soil**		**Batch: 22A0601**		
Benzene	ND	---	0.0156	mg/kg dry	50	01/18/22 18:26	5035A/8260D	
Toluene	ND	---	0.0779	mg/kg dry	50	01/18/22 18:26	5035A/8260D	
Ethylbenzene	ND	---	0.0389	mg/kg dry	50	01/18/22 18:26	5035A/8260D	
Xylenes, total	ND	---	0.117	mg/kg dry	50	01/18/22 18:26	5035A/8260D	
Naphthalene	ND	---	0.156	mg/kg dry	50	01/18/22 18:26	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*01/18/22 18:26*	*5035A/8260D*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*01/18/22 18:26*	*5035A/8260D*	

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC05-3.0 (A2A0604-05)				**Matrix: Soil**		**Batch: 22A0601**		
Surrogate: 4-Bromofluorobenzene (Surr)		*Recovery: 98 %*	*Limits: 79-120 %*		*1*	*01/18/22 18:26*	*5035A/8260D*	
HC06-5.5 (A2A0604-06)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0130	mg/kg dry	50	01/18/22 14:04	5035A/8260D	
Toluene	ND	---	0.0650	mg/kg dry	50	01/18/22 14:04	5035A/8260D	
Ethylbenzene	ND	---	0.0325	mg/kg dry	50	01/18/22 14:04	5035A/8260D	
Xylenes, total	ND	---	0.0975	mg/kg dry	50	01/18/22 14:04	5035A/8260D	
Naphthalene	ND	---	0.130	mg/kg dry	50	01/18/22 14:04	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 101 %*	*Limits: 80-120 %*		*1*	*01/18/22 14:04*	*5035A/8260D*	
Toluene-d8 (Surr)		*100 %*	*80-120 %*		*1*	*01/18/22 14:04*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)		*100 %*	*79-120 %*		*1*	*01/18/22 14:04*	*5035A/8260D*	
HC07-5.5 (A2A0604-07)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0115	mg/kg dry	50	01/18/22 14:59	5035A/8260D	
Toluene	ND	---	0.0577	mg/kg dry	50	01/18/22 14:59	5035A/8260D	
Ethylbenzene	ND	---	0.0289	mg/kg dry	50	01/18/22 14:59	5035A/8260D	
Xylenes, total	ND	---	0.0866	mg/kg dry	50	01/18/22 14:59	5035A/8260D	
Naphthalene	ND	---	0.115	mg/kg dry	50	01/18/22 14:59	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*	*Limits: 80-120 %*		*1*	*01/18/22 14:59*	*5035A/8260D*	
Toluene-d8 (Surr)		*100 %*	*80-120 %*		*1*	*01/18/22 14:59*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)		*100 %*	*79-120 %*		*1*	*01/18/22 14:59*	*5035A/8260D*	
HC08-6.0 (A2A0604-08)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0119	mg/kg dry	50	01/18/22 15:53	5035A/8260D	
Toluene	ND	---	0.0597	mg/kg dry	50	01/18/22 15:53	5035A/8260D	
Ethylbenzene	ND	---	0.0298	mg/kg dry	50	01/18/22 15:53	5035A/8260D	
Xylenes, total	ND	---	0.0895	mg/kg dry	50	01/18/22 15:53	5035A/8260D	
Naphthalene	ND	---	0.119	mg/kg dry	50	01/18/22 15:53	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 103 %*	*Limits: 80-120 %*		*1*	*01/18/22 15:53*	*5035A/8260D*	
Toluene-d8 (Surr)		*98 %*	*80-120 %*		*1*	*01/18/22 15:53*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)		*101 %*	*79-120 %*		*1*	*01/18/22 15:53*	*5035A/8260D*	
HC09-6.5 (A2A0604-09)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0136	mg/kg dry	50	01/18/22 16:20	5035A/8260D	
Toluene	ND	---	0.0680	mg/kg dry	50	01/18/22 16:20	5035A/8260D	
Ethylbenzene	ND	---	0.0340	mg/kg dry	50	01/18/22 16:20	5035A/8260D	
Xylenes, total	ND	---	0.102	mg/kg dry	50	01/18/22 16:20	5035A/8260D	

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC09-6.5 (A2A0604-09)				**Matrix: Soil**		**Batch: 22A0591**		
Naphthalene	ND	---	0.136	mg/kg dry	50	01/18/22 16:20	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*01/18/22 16:20*	*5035A/8260D*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*01/18/22 16:20*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*102 %*	*79-120 %*	*1*	*01/18/22 16:20*	*5035A/8260D*	
HC10-6.0 (A2A0604-10)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0123	mg/kg dry	50	01/18/22 16:47	5035A/8260D	
Toluene	ND	---	0.0615	mg/kg dry	50	01/18/22 16:47	5035A/8260D	
Ethylbenzene	ND	---	0.0307	mg/kg dry	50	01/18/22 16:47	5035A/8260D	
Xylenes, total	ND	---	0.0922	mg/kg dry	50	01/18/22 16:47	5035A/8260D	
Naphthalene	ND	---	0.123	mg/kg dry	50	01/18/22 16:47	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*01/18/22 16:47*	*5035A/8260D*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*01/18/22 16:47*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*101 %*	*79-120 %*	*1*	*01/18/22 16:47*	*5035A/8260D*	
HC11-4.0 (A2A0604-11)				**Matrix: Soil**		**Batch: 22A0591**		
Benzene	ND	---	0.0164	mg/kg dry	50	01/18/22 17:14	5035A/8260D	
Toluene	ND	---	0.0818	mg/kg dry	50	01/18/22 17:14	5035A/8260D	
Ethylbenzene	ND	---	0.0409	mg/kg dry	50	01/18/22 17:14	5035A/8260D	
Xylenes, total	ND	---	0.123	mg/kg dry	50	01/18/22 17:14	5035A/8260D	
Naphthalene	ND	---	0.164	mg/kg dry	50	01/18/22 17:14	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*103 %*	*Limits: 80-120 %*	*1*	*01/18/22 17:14*	*5035A/8260D*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*01/18/22 17:14*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*102 %*	*79-120 %*	*1*	*01/18/22 17:14*	*5035A/8260D*	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0604 - 02 08 22 1659

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC03-6.0 (A2A0604-03)				**Matrix: Soil**		**Batch: 22A0601**		
Benzene	ND	---	0.0122	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Toluene	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Ethylbenzene	ND	---	0.0304	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Xylenes, total	ND	---	0.0912	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Naphthalene	**0.986**	---	0.122	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0304	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Isopropylbenzene	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0608	mg/kg dry	50	01/18/22 17:32	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*01/18/22 17:32*	*5035A/8260D*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*01/18/22 17:32*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*79-120 %*	*1*	*01/18/22 17:32*	*5035A/8260D*	

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC01-5.0 (A2A0604-01)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**78.9**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC02-5.0 (A2A0604-02)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**78.4**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC03-6.0 (A2A0604-03)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**80.0**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC04-5.5 (A2A0604-04)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**75.1**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC05-3.0 (A2A0604-05)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**73.1**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC06-5.5 (A2A0604-06)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**79.3**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC07-5.5 (A2A0604-07)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**80.2**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC08-6.0 (A2A0604-08)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**81.5**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC09-6.5 (A2A0604-09)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**82.2**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC10-6.0 (A2A0604-10)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**81.7**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	
HC11-4.0 (A2A0604-11)				**Matrix: Soil**		**Batch: 22A0694**		
% Solids	**77.4**	---	1.00	%	1	01/20/22 10:22	EPA 8000D	

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ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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 22A0583 - EPA 3546 (Fuels)									Soil			
Blank (22A0583-BLK1)		Prepared: 01/17/22 17:05		Analyzed: 01/17/22 21:33								
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 83 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (22A0583-BS1)		Prepared: 01/17/22 17:05		Analyzed: 01/17/22 21:55								
NWTPH-Dx												
Diesel	99.7	---	25.0	mg/kg wet	1	125	---	80	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 87 %*		*Limits: 50-150 %*			*Dilution: 1x*					

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HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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 22A0591 - EPA 5035A							**Soil**					
Blank (22A0591-BLK1)		Prepared: 01/18/22 07:00		Analyzed: 01/18/22 10:28								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*102 %*		*50-150 %*			*"*					
LCS (22A0591-BS2)		Prepared: 01/18/22 07:00		Analyzed: 01/18/22 10:01								
NWTPH-Gx (MS)												
Gasoline Range Organics	25.7	---	5.00	mg/kg wet	50	25.0	---	103	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 112 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*104 %*		*50-150 %*			*"*					
Duplicate (22A0591-DUP1)		Prepared: 01/14/22 13:55		Analyzed: 01/18/22 14:31								
QC Source Sample: HC06-5.5 (A2A0604-06)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	6.24	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 116 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*104 %*		*50-150 %*			*"*					
Duplicate (22A0591-DUP2)		Prepared: 01/14/22 15:05		Analyzed: 01/18/22 15:26								
QC Source Sample: HC07-5.5 (A2A0604-07)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	8.17	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 117 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*102 %*		*50-150 %*			*"*					

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

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 22A0601 - EPA 5035A							**Soil**					
Blank (22A0601-BLK1)		Prepared: 01/18/22 09:00		Analyzed: 01/18/22 12:08								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 107 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*108 %*		*50-150 %*			*"*					
LCS (22A0601-BS2)		Prepared: 01/18/22 09:00		Analyzed: 01/18/22 11:41								
NWTPH-Gx (MS)												
Gasoline Range Organics	29.4	---	5.00	mg/kg wet	50	25.0	---	118	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 105 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*106 %*		*50-150 %*			*"*					
Duplicate (22A0601-DUP2)		Prepared: 01/14/22 13:10		Analyzed: 01/18/22 18:53								
QC Source Sample: HC05-3.0 (A2A0604-05)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	7.73	mg/kg dry	50	---	ND	---	---	**---**	**30%**	Q-05
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 108 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*111 %*		*50-150 %*			*"*					

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HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0591 - EPA 5035A							**Soil**					
Blank (22A0591-BLK1)		Prepared: 01/18/22 07:00 Analyzed: 01/18/22 10:28										
5035A/8260D												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*103 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*101 %*		*79-120 %*			*"*					
LCS (22A0591-BS1)		Prepared: 01/18/22 07:00 Analyzed: 01/18/22 09:32										
5035A/8260D												
Benzene	1.06	---	0.0100	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Toluene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Ethylbenzene	0.984	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Xylenes, total	3.10	---	0.0750	mg/kg wet	50	3.00	---	103	80 - 120%	---	---	
Naphthalene	0.978	---	0.100	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*99 %*		*79-120 %*			*"*					
Duplicate (22A0591-DUP1)		Prepared: 01/14/22 13:55 Analyzed: 01/18/22 14:31										
QC Source Sample: HC06-5.5 (A2A0604-06)												
5035A/8260D												
Benzene	ND	---	0.0125	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0624	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0312	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.0936	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.125	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*99 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*103 %*		*79-120 %*			*"*					

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HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0591 - EPA 5035A							**Soil**					
Duplicate (22A0591-DUP2)		Prepared: 01/14/22 15:05		Analyzed: 01/18/22 15:26								
QC Source Sample: HC07-5.5 (A2A0604-07)												
5035A/8260D												
Benzene	ND	---	0.0163	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0817	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0408	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.123	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.163	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 103 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*102 %*		*79-120 %*			*"*					
Matrix Spike (22A0591-MS1)		Prepared: 01/14/22 16:25		Analyzed: 01/18/22 17:41								
QC Source Sample: HC11-4.0 (A2A0604-11)												
5035A/8260D												
Benzene	1.79	---	0.0164	mg/kg dry	50	1.64	ND	109	77 - 121%	---	---	
Toluene	1.60	---	0.0818	mg/kg dry	50	1.64	ND	98	77 - 121%	---	---	
Ethylbenzene	1.61	---	0.0409	mg/kg dry	50	1.64	ND	98	76 - 122%	---	---	
Xylenes, total	5.06	---	0.123	mg/kg dry	50	4.91	ND	103	78 - 124%	---	---	
Naphthalene	1.56	---	0.164	mg/kg dry	50	1.64	ND	95	62 - 129%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*79-120 %*			*"*					

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0601 - EPA 5035A							**Soil**					
Blank (22A0601-BLK1)		Prepared: 01/18/22 09:00	Analyzed: 01/18/22 12:08									
5035A/8260D												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 110 %*	*Limits: 80-120 %*				*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*	*80-120 %*				*"*					
4-Bromofluorobenzene (Surr)		*100 %*	*79-120 %*				*"*					
LCS (22A0601-BS1)		Prepared: 01/18/22 09:00	Analyzed: 01/18/22 10:11									
5035A/8260D												
Benzene	1.13	---	0.0100	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
Toluene	0.980	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Ethylbenzene	0.997	---	0.0250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Xylenes, total	2.97	---	0.0750	mg/kg wet	50	3.00	---	99	80 - 120%	---	---	
Naphthalene	1.06	---	0.100	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 108 %*	*Limits: 80-120 %*				*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*	*80-120 %*				*"*					
4-Bromofluorobenzene (Surr)		*98 %*	*79-120 %*				*"*					
Duplicate (22A0601-DUP2)		Prepared: 01/14/22 13:10	Analyzed: 01/18/22 18:53									
QC Source Sample: HC05-3.0 (A2A0604-05)												
5035A/8260D												
Benzene	ND	---	0.0155	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0386	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.116	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.155	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 109 %*	*Limits: 80-120 %*				*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*	*80-120 %*				*"*					
4-Bromofluorobenzene (Surr)		*98 %*	*79-120 %*				*"*					

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HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0601 - EPA 5035A												**Soil**
Blank (22A0601-BLK1)		Prepared: 01/18/22 09:00 Analyzed: 01/18/22 12:08										
5035A/8260D												
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*110 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*79-120 %*			*"*				
LCS (22A0601-BS1)		Prepared: 01/18/22 09:00 Analyzed: 01/18/22 10:11										
5035A/8260D												
Benzene	1.13	---	0.0100	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
Toluene	0.980	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Ethylbenzene	0.997	---	0.0250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Xylenes, total	2.97	---	0.0750	mg/kg wet	50	3.00	---	99	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Naphthalene	1.06	---	0.100	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Isopropylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
1,2,4-Trimethylbenzene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*98 %*		*79-120 %*			*"*				
Duplicate (22A0601-DUP2)		Prepared: 01/14/22 13:10 Analyzed: 01/18/22 18:53										

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0601 - EPA 5035A							**Soil**					
Duplicate (22A0601-DUP2)		Prepared: 01/14/22 13:10 Analyzed: 01/18/22 18:53										
QC Source Sample: HC05-3.0 (A2A0604-05)												
5035A/8260D												
Benzene	ND	---	0.0155	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0386	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.116	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.155	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0386	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0773	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*98 %*		*79-120 %*			*"*				

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0694 - Total Solids (Dry Weight)							**Soil**					
Duplicate (22A0694-DUP4)		Prepared: 01/19/22 17:40		Analyzed: 01/20/22 10:22								
QC Source Sample: HC01-5.0 (A2A0604-01)												
EPA 8000D												
% Solids	**78.9**	---	1.00	%	1	---	78.9	---	---	0.09	10%	

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

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Cameron O'Brien, Project Manager

APEX LABORATORIES

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0583							
A2A0604-01	Soil	NWTPH-Dx	01/14/22 10:00	01/17/22 17:13	10.2g/5mL	10g/5mL	0.98
A2A0604-02	Soil	NWTPH-Dx	01/14/22 11:00	01/17/22 17:13	10.63g/5mL	10g/5mL	0.94
A2A0604-03	Soil	NWTPH-Dx	01/14/22 11:40	01/17/22 17:13	10.71g/5mL	10g/5mL	0.93
A2A0604-04	Soil	NWTPH-Dx	01/14/22 12:45	01/17/22 17:13	10.23g/5mL	10g/5mL	0.98
A2A0604-05	Soil	NWTPH-Dx	01/14/22 13:10	01/17/22 17:13	10.93g/5mL	10g/5mL	0.92
A2A0604-06	Soil	NWTPH-Dx	01/14/22 13:55	01/17/22 17:13	10.85g/5mL	10g/5mL	0.92
A2A0604-07RE1	Soil	NWTPH-Dx	01/14/22 15:05	01/17/22 17:13	10.57g/5mL	10g/5mL	0.95
A2A0604-08RE1	Soil	NWTPH-Dx	01/14/22 15:30	01/17/22 17:13	10.23g/5mL	10g/5mL	0.98
A2A0604-09RE1	Soil	NWTPH-Dx	01/14/22 15:45	01/17/22 17:13	10.21g/5mL	10g/5mL	0.98
A2A0604-10	Soil	NWTPH-Dx	01/14/22 16:00	01/17/22 17:13	10.87g/5mL	10g/5mL	0.92
A2A0604-11	Soil	NWTPH-Dx	01/14/22 16:25	01/17/22 17:13	10.1g/5mL	10g/5mL	0.99

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

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0591							
A2A0604-06	Soil	NWTPH-Gx (MS)	01/14/22 13:55	01/14/22 13:55	6.06g/5mL	5g/5mL	0.83
A2A0604-07	Soil	NWTPH-Gx (MS)	01/14/22 15:05	01/14/22 15:05	6.88g/5mL	5g/5mL	0.73
A2A0604-08	Soil	NWTPH-Gx (MS)	01/14/22 15:30	01/14/22 15:30	6.35g/5mL	5g/5mL	0.79
A2A0604-09	Soil	NWTPH-Gx (MS)	01/14/22 15:45	01/14/22 15:45	5.32g/5mL	5g/5mL	0.94
A2A0604-10	Soil	NWTPH-Gx (MS)	01/14/22 16:00	01/14/22 16:00	6.09g/5mL	5g/5mL	0.82
A2A0604-11	Soil	NWTPH-Gx (MS)	01/14/22 16:25	01/14/22 16:25	4.8g/5mL	5g/5mL	1.04
Batch: 22A0601							
A2A0604-01	Soil	NWTPH-Gx (MS)	01/14/22 10:00	01/14/22 10:00	6.37g/5mL	5g/5mL	0.79
A2A0604-02	Soil	NWTPH-Gx (MS)	01/14/22 11:00	01/14/22 11:00	6.28g/5mL	5g/5mL	0.80
A2A0604-03	Soil	NWTPH-Gx (MS)	01/14/22 11:40	01/14/22 11:40	6.48g/5mL	5g/5mL	0.77
A2A0604-04	Soil	NWTPH-Gx (MS)	01/14/22 12:45	01/14/22 12:45	6.67g/5mL	5g/5mL	0.75
A2A0604-05	Soil	NWTPH-Gx (MS)	01/14/22 13:10	01/14/22 13:10	5.75g/5mL	5g/5mL	0.87

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0591							
A2A0604-06	Soil	5035A/8260D	01/14/22 13:55	01/14/22 13:55	6.06g/5mL	5g/5mL	0.83

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Cameron O'Brien, Project Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0604 - 02 08 22 1659

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2A0604-07	Soil	5035A/8260D	01/14/22 15:05	01/14/22 15:05	6.88g/5mL	5g/5mL	0.73
A2A0604-08	Soil	5035A/8260D	01/14/22 15:30	01/14/22 15:30	6.35g/5mL	5g/5mL	0.79
A2A0604-09	Soil	5035A/8260D	01/14/22 15:45	01/14/22 15:45	5.32g/5mL	5g/5mL	0.94
A2A0604-10	Soil	5035A/8260D	01/14/22 16:00	01/14/22 16:00	6.09g/5mL	5g/5mL	0.82
A2A0604-11	Soil	5035A/8260D	01/14/22 16:25	01/14/22 16:25	4.8g/5mL	5g/5mL	1.04
Batch: 22A0601							
A2A0604-01	Soil	5035A/8260D	01/14/22 10:00	01/14/22 10:00	6.37g/5mL	5g/5mL	0.79
A2A0604-02	Soil	5035A/8260D	01/14/22 11:00	01/14/22 11:00	6.28g/5mL	5g/5mL	0.80
A2A0604-04	Soil	5035A/8260D	01/14/22 12:45	01/14/22 12:45	6.67g/5mL	5g/5mL	0.75
A2A0604-05	Soil	5035A/8260D	01/14/22 13:10	01/14/22 13:10	5.75g/5mL	5g/5mL	0.87

Selected Volatile Organic Compounds by EPA 5035A/8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0601							
A2A0604-03	Soil	5035A/8260D	01/14/22 11:40	01/14/22 11:40	6.48g/5mL	5g/5mL	0.77

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0694							
A2A0604-01	Soil	EPA 8000D	01/14/22 10:00	01/19/22 17:40			NA
A2A0604-02	Soil	EPA 8000D	01/14/22 11:00	01/19/22 17:40			NA
A2A0604-03	Soil	EPA 8000D	01/14/22 11:40	01/19/22 17:40			NA
A2A0604-04	Soil	EPA 8000D	01/14/22 12:45	01/19/22 17:40			NA
A2A0604-05	Soil	EPA 8000D	01/14/22 13:10	01/19/22 17:40			NA
A2A0604-06	Soil	EPA 8000D	01/14/22 13:55	01/19/22 17:40			NA
A2A0604-07	Soil	EPA 8000D	01/14/22 15:05	01/19/22 17:40			NA
A2A0604-08	Soil	EPA 8000D	01/14/22 15:30	01/19/22 17:40			NA
A2A0604-09	Soil	EPA 8000D	01/14/22 15:45	01/19/22 17:40			NA
A2A0604-10	Soil	EPA 8000D	01/14/22 16:00	01/19/22 17:40			NA
A2A0604-11	Soil	EPA 8000D	01/14/22 16:25	01/19/22 17:40			NA

Apex Laboratories

Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

QUALIFIER DEFINITIONS

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

Apex Laboratories

Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

Apex Laboratories

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ANALYTICAL REPORT

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Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

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

NR Result Not Reported.

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

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

Apex Laboratories

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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ANALYTICAL REPORT

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Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

LABORATORY ACCREDITATION INFORMATION

ORELAP 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

Cameron O'Brien, Project Manager

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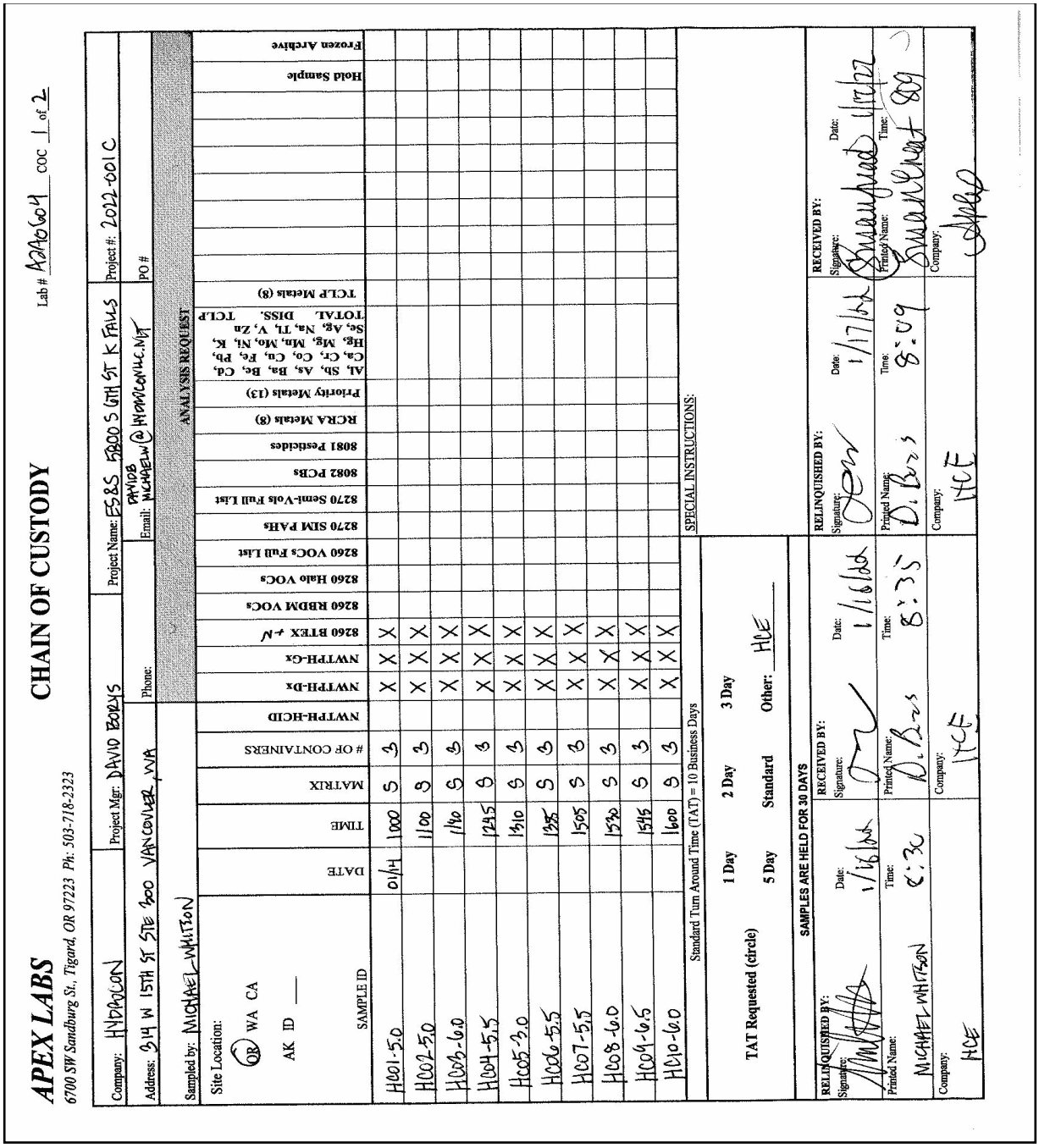
ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**



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

CHAIN OF CUSTODY

Lab # A2A0604 COC 1 of 2

Company: HYDROCON | Project Mgr: DAVID BORYS | Project Name: ES&S 5800 S 6TH ST K FALLS | Project #: 2022-001C
Address: 314 W 15TH ST STE 300 VANCOUVER, WA | Phone: | Email: MICHAELW@HYDROCONLLC.NET | PO #
Sampled by: MICHAEL WHITSON

Site Location: (OR) WA CA AK ID —

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX + N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	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)	Hold Sample	Frozen Archive
H001-5.0	01/14	1000	S	3		X	X	X													
H002-5.0		1100	S	3		X	X	X													
H003-6.0		1140	S	3		X	X	X													
H004-5.5		1245	S	3		X	X	X													
H005-3.0		1310	S	3		X	X	X													
H006-5.5		1335	S	3		X	X	X													
H007-5.5		1505	S	3		X	X	X													
H008-6.0		1530	S	3		X	X	X													
H009-6.5		1545	S	3		X	X	X													
H010-6.0		1600	S	3		X	X	X													

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: HOLD

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Date: 1/16/2022
RECEIVED BY: Signature: Date: 1/16/2022
RELINQUISHED BY: Signature: Date: 1/17/22
RECEIVED BY: Signature: Date:
RELINQUISHED BY: Printed Name: MICHAEL WHITSON Time: 2:30 Company: HCE
RECEIVED BY: Printed Name: D. Borys Time: 8:35 Company: HCE
RELINQUISHED BY: Printed Name: D. Borys Time: 8:09 Company: HCE
RECEIVED BY: Printed Name: Susan Wheat Time: 809 Company:

Apex Laboratories

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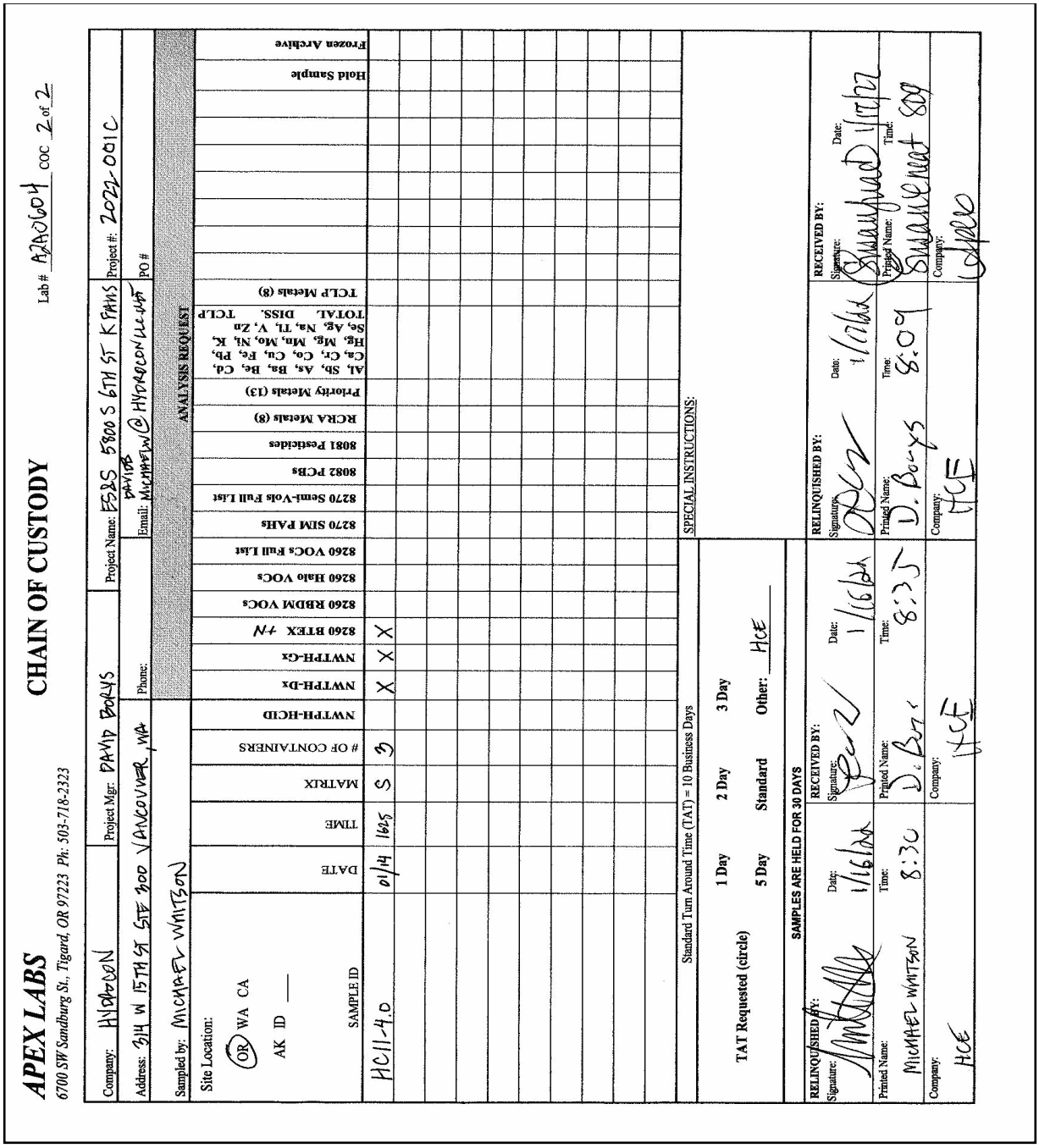
Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**



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

CHAIN OF CUSTODY

Lab # A2A0604 COC 2 of 2

Company: HYDROCON | Project Mgr: DAVID BORYS | Project Name: ES&S 5800 S 6TH ST K FALLS | Project #: 2022-001C
Address: 314 W 15TH ST STE 300 VANCOUVER, WA | Phone: | Email: MICHAEL@HYDROCONLLC.NET | PO #
Sampled by: MICHAEL WATSON

Site Location: (OR) WA CA AK ID ___

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX +N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	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)	Hold Sample	Frozen Archive
HC11-4.0	01/14	1605	S	3		X	X	X													

ANALYSIS REQUEST

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: HCE

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:	1/16/22	Signature:	1/16/22	Signature:	1/17/22	Signature:	1/17/22
Printed Name: MICHAEL WATSON	Time: 8:30	Printed Name: D. Borys	Time: 8:35	Printed Name: D. Borys	Time: 8:09	Printed Name: SHAWNMAT SOO	Time: 800
Company: HCE		Company: HCE		Company: HCE		Company: Apex	

Apex Laboratories

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0604 - 02 08 22 1659**

APEX LABS COOLER RECEIPT FORM

Client: Hydrocon Element WO#: A2A0604

Project/Project #: ES+S 5800 S 6th St KFalls / 2022-001 C

Delivery Info:

Date/time received: 1/17/22 @ 809 By: (KO)

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

Cooler Inspection Date/time inspected: 1/17/22 @ 819 By: (KO)

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.2	3.3	4.0				
Received on ice? (Y/N)	Y	Y	Y				
Temp. blanks? (Y/N)	Y	Y	Y				
Ice type: (Gel/Real/Other)	real	real	real				
Condition:	good	good	good				

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

Green dots applied to out of temperature samples? Yes/(No)

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

Sample Inspection: Date/time inspected: 1/17/22 @ 15:51 By: KAM

All samples intact? Yes X No ___ Comments: ___

KAM 1/17/22

Bottle labels/COCs agree? Yes X No X Comments: Samples HC02-5.0 through HC10-6.0 do not have a date on COC, containers read 1/14/22

COC/container discrepancies form initiated? Yes ___ No X

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

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

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: KAM Witness: MAS Cooler Inspected by: KAM

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ANALYTICAL REPORT

Tuesday, February 8, 2022

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

RE: A2A0618 - ES&S 5800 S 6th St K Falls - 2022-001C

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 A2A0618, which was received by the laboratory on 1/17/2022 at 8:09:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.2 degC	Cooler #2	3.3 degC
Cooler #3	4.0 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

Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HC01-W	A2A0618-01	Water	01/14/22 11:20	01/17/22 08:09
HC02-W	A2A0618-02	Water	01/14/22 11:45	01/17/22 08:09
HC03-W	A2A0618-03	Water	01/14/22 12:00	01/17/22 08:09
HC04-W	A2A0618-04	Water	01/14/22 12:55	01/17/22 08:09
HC05-W	A2A0618-05	Water	01/14/22 13:20	01/17/22 08:09
HC06-W	A2A0618-06	Water	01/14/22 14:10	01/17/22 08:09
HC07-W	A2A0618-07	Water	01/14/22 15:20	01/17/22 08:09
HC08-W	A2A0618-08	Water	01/14/22 15:50	01/17/22 08:09
HC09-W	A2A0618-09	Water	01/14/22 16:20	01/17/22 08:09
HC10-W	A2A0618-10	Water	01/14/22 16:45	01/17/22 08:09
HC11-W	A2A0618-11	Water	01/14/22 17:00	01/17/22 08:09

Apex Laboratories

Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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
HC01-W (A2A0618-01RE1)				**Matrix: Water**		**Batch: 22A0588**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 07:10	NWTPH-Dx LL	
Oil	**616**	---	151	ug/L	1	01/20/22 07:10	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*1*	*01/20/22 07:10*	*NWTPH-Dx LL*	
HC02-W (A2A0618-02)				**Matrix: Water**		**Batch: 22A0588**		
Diesel	**113**	---	75.5	ug/L	1	01/18/22 23:09	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/18/22 23:09	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*	*1*	*01/18/22 23:09*	*NWTPH-Dx LL*	
HC03-W (A2A0618-03RE1)				**Matrix: Water**		**Batch: 22A0588**		
Diesel	**214**	---	75.5	ug/L	1	01/20/22 07:51	NWTPH-Dx LL	**F-13**
Oil	**539**	---	151	ug/L	1	01/20/22 07:51	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 104 %*		*Limits: 50-150 %*	*1*	*01/20/22 07:51*	*NWTPH-Dx LL*	
HC04-W (A2A0618-04)				**Matrix: Water**		**Batch: 22A0588**		
Diesel	ND	---	75.5	ug/L	1	01/18/22 23:50	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/18/22 23:50	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 89 %*		*Limits: 50-150 %*	*1*	*01/18/22 23:50*	*NWTPH-Dx LL*	
HC05-W (A2A0618-05)				**Matrix: Water**		**Batch: 22A0588**		
Diesel	ND	---	75.5	ug/L	1	01/19/22 00:10	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/19/22 00:10	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*		*Limits: 50-150 %*	*1*	*01/19/22 00:10*	*NWTPH-Dx LL*	
HC06-W (A2A0618-06)				**Matrix: Water**		**Batch: 22A0704**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 21:45	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/20/22 21:45	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*	*1*	*01/20/22 21:45*	*NWTPH-Dx LL*	
HC07-W (A2A0618-07)				**Matrix: Water**		**Batch: 22A0704**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 22:05	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/20/22 22:05	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*01/20/22 22:05*	*NWTPH-Dx LL*	
HC08-W (A2A0618-08)				**Matrix: Water**		**Batch: 22A0704**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 22:26	NWTPH-Dx LL	

Apex Laboratories

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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
HC08-W (A2A0618-08)				**Matrix: Water**		**Batch: 22A0704**		
Oil	**193**	---	151	ug/L	1	01/20/22 22:26	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 95 %*	*Limits: 50-150 %*		*1*	*01/20/22 22:26*	*NWTPH-Dx LL*	
HC09-W (A2A0618-09)				**Matrix: Water**		**Batch: 22A0704**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 22:46	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/20/22 22:46	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*	*Limits: 50-150 %*		*1*	*01/20/22 22:46*	*NWTPH-Dx LL*	
HC10-W (A2A0618-10)				**Matrix: Water**		**Batch: 22A0704**		
Diesel	ND	---	75.5	ug/L	1	01/20/22 23:06	NWTPH-Dx LL	
Oil	ND	---	151	ug/L	1	01/20/22 23:06	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 94 %*	*Limits: 50-150 %*		*1*	*01/20/22 23:06*	*NWTPH-Dx LL*	
HC11-W (A2A0618-11)				**Matrix: Water**		**Batch: 22A0704**		**PRES**
Diesel	ND	---	86.0	ug/L	1	01/20/22 23:27	NWTPH-Dx LL	
Oil	ND	---	172	ug/L	1	01/20/22 23:27	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 96 %*	*Limits: 50-150 %*		*1*	*01/20/22 23:27*	*NWTPH-Dx LL*	

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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
HC01-W (A2A0618-01)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 16:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*	*Limits: 50-150 %*		*1*	*01/19/22 16:23*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*01/19/22 16:23*	*NWTPH-Gx (MS)*	
HC02-W (A2A0618-02)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 16:50	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 95 %*	*Limits: 50-150 %*		*1*	*01/19/22 16:50*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*103 %*	*50-150 %*		*1*	*01/19/22 16:50*	*NWTPH-Gx (MS)*	
HC03-W (A2A0618-03)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	**179**	---	100	ug/L	1	01/19/22 17:16	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*	*Limits: 50-150 %*		*1*	*01/19/22 17:16*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*01/19/22 17:16*	*NWTPH-Gx (MS)*	
HC04-W (A2A0618-04)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 17:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 95 %*	*Limits: 50-150 %*		*1*	*01/19/22 17:43*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*103 %*	*50-150 %*		*1*	*01/19/22 17:43*	*NWTPH-Gx (MS)*	
HC05-W (A2A0618-05)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 18:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*01/19/22 18:09*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*104 %*	*50-150 %*		*1*	*01/19/22 18:09*	*NWTPH-Gx (MS)*	
HC06-W (A2A0618-06)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 18:36	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*	*Limits: 50-150 %*		*1*	*01/19/22 18:36*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*104 %*	*50-150 %*		*1*	*01/19/22 18:36*	*NWTPH-Gx (MS)*	
HC07-W (A2A0618-07)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 19:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 96 %*	*Limits: 50-150 %*		*1*	*01/19/22 19:02*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*105 %*	*50-150 %*		*1*	*01/19/22 19:02*	*NWTPH-Gx (MS)*	
HC08-W (A2A0618-08)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 19:29	NWTPH-Gx (MS)	

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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
HC08-W (A2A0618-08)				**Matrix: Water**		**Batch: 22A0649**		
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	*1*	*01/19/22 19:29*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*107 %*	*50-150 %*	*1*	*01/19/22 19:29*	*NWTPH-Gx (MS)*	
HC09-W (A2A0618-09)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 19:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	*1*	*01/19/22 19:55*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*01/19/22 19:55*	*NWTPH-Gx (MS)*	
HC10-W (A2A0618-10)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 20:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*	*1*	*01/19/22 20:22*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*	*1*	*01/19/22 20:22*	*NWTPH-Gx (MS)*	
HC11-W (A2A0618-11)				**Matrix: Water**		**Batch: 22A0649**		
Gasoline Range Organics	ND	---	100	ug/L	1	01/19/22 20:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*01/19/22 20:48*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*104 %*	*50-150 %*	*1*	*01/19/22 20:48*	*NWTPH-Gx (MS)*	

Apex Laboratories

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Cameron O'Brien, Project Manager

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC01-W (A2A0618-01)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 16:23	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 16:23	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 16:23	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 16:23	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 16:23	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	*1*	*01/19/22 16:23*	*EPA 8260D*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*01/19/22 16:23*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*01/19/22 16:23*	*EPA 8260D*	
HC02-W (A2A0618-02)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	**0.320**	---	0.200	ug/L	1	01/19/22 16:50	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 16:50	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 16:50	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 16:50	EPA 8260D	
Naphthalene	**2.04**	---	2.00	ug/L	1	01/19/22 16:50	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	*1*	*01/19/22 16:50*	*EPA 8260D*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*01/19/22 16:50*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*01/19/22 16:50*	*EPA 8260D*	
HC04-W (A2A0618-04)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 17:43	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 17:43	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 17:43	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 17:43	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 17:43	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	*1*	*01/19/22 17:43*	*EPA 8260D*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*01/19/22 17:43*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*01/19/22 17:43*	*EPA 8260D*	
HC05-W (A2A0618-05)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 18:09	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 18:09	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 18:09	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 18:09	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 18:09	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	*1*	*01/19/22 18:09*	*EPA 8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*01/19/22 18:09*	*EPA 8260D*	

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC05-W (A2A0618-05)				**Matrix: Water**		**Batch: 22A0649**		
Surrogate: 4-Bromofluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	*1*	*01/19/22 18:09*	*EPA 8260D*	
HC06-W (A2A0618-06)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 18:36	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 18:36	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 18:36	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 18:36	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 18:36	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	*1*	*01/19/22 18:36*	*EPA 8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*01/19/22 18:36*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*01/19/22 18:36*	*EPA 8260D*	
HC07-W (A2A0618-07)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 19:02	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 19:02	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 19:02	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 19:02	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 19:02	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*	*Limits: 80-120 %*	*1*	*01/19/22 19:02*	*EPA 8260D*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*01/19/22 19:02*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*01/19/22 19:02*	*EPA 8260D*	
HC08-W (A2A0618-08)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 19:29	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 19:29	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 19:29	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 19:29	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 19:29	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			*Recovery: 97 %*	*Limits: 80-120 %*	*1*	*01/19/22 19:29*	*EPA 8260D*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*01/19/22 19:29*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*01/19/22 19:29*	*EPA 8260D*	
HC09-W (A2A0618-09)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 19:55	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 19:55	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 19:55	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 19:55	EPA 8260D	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0618 - 02 08 22 1708

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC09-W (A2A0618-09)				**Matrix: Water**		**Batch: 22A0649**		
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 19:55	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*01/19/22 19:55*	*EPA 8260D*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*01/19/22 19:55*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*01/19/22 19:55*	*EPA 8260D*	
HC10-W (A2A0618-10)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 20:22	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 20:22	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 20:22	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 20:22	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 20:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*01/19/22 20:22*	*EPA 8260D*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*01/19/22 20:22*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*01/19/22 20:22*	*EPA 8260D*	
HC11-W (A2A0618-11)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	ND	---	0.200	ug/L	1	01/19/22 20:48	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 20:48	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 20:48	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 20:48	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 20:48	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*93 %*	*Limits: 80-120 %*	*1*	*01/19/22 20:48*	*EPA 8260D*	
Toluene-d8 (Surr)			*104 %*	*80-120 %*	*1*	*01/19/22 20:48*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*01/19/22 20:48*	*EPA 8260D*	

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC03-W (A2A0618-03)				**Matrix: Water**		**Batch: 22A0649**		
Benzene	**17.4**	---	0.200	ug/L	1	01/19/22 17:16	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/19/22 17:16	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/19/22 17:16	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	01/19/22 17:16	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/19/22 17:16	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	01/19/22 17:16	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/19/22 17:16	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	01/19/22 17:16	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/19/22 17:16	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/19/22 17:16	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/19/22 17:16	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits:* *80-120 %*	*1*	*01/19/22 17:16*	*EPA 8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*01/19/22 17:16*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*01/19/22 17:16*	*EPA 8260D*	

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HC03-W (A2A0618-03)				**Matrix: Water**		**Batch: 22A0882**		**H-06**
Acenaphthene	**0.151**	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Anthracene	ND	---	0.0943	ug/L	1	01/25/22 20:10	EPA 8270E SIM	R-02
Benz(a)anthracene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Chrysene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Fluoranthene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Fluorene	**0.251**	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
1-Methylnaphthalene	**0.0989**	---	0.0755	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
2-Methylnaphthalene	ND	---	0.0755	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Naphthalene	ND	---	0.217	ug/L	1	01/25/22 20:10	EPA 8270E SIM	R-02
Phenanthrene	ND	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Pyrene	**0.0422**	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Dibenzofuran	**0.316**	---	0.0377	ug/L	1	01/25/22 20:10	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*78 %*	*Limits: 44-120 %*	*1*	*01/25/22 20:10*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*75 %*	*50-134 %*	*1*	*01/25/22 20:10*	*EPA 8270E SIM*	

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ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0618 - 02 08 22 1708

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 22A0588 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (22A0588-BLK1)		Prepared: 01/18/22 07:10		Analyzed: 01/18/22 20:46								
NWTPH-Dx LL												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 89 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (22A0588-BS1)		Prepared: 01/18/22 07:10		Analyzed: 01/18/22 21:07								
NWTPH-Dx LL												
Diesel	378	---	80.0	ug/L	1	500	---	76	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 87 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (22A0588-BSD1)		Prepared: 01/18/22 07:10		Analyzed: 01/18/22 21:27								**Q-19**
NWTPH-Dx LL												
Diesel	366	---	80.0	ug/L	1	500	---	73	36 - 132%	3	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*		*Dilution: 1x*						
Batch 22A0704 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (22A0704-BLK1)		Prepared: 01/20/22 07:11		Analyzed: 01/20/22 20:44								
NWTPH-Dx LL												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (22A0704-BS1)		Prepared: 01/20/22 07:11		Analyzed: 01/20/22 21:04								
NWTPH-Dx LL												
Diesel	472	---	80.0	ug/L	1	500	---	94	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (22A0704-BSD1)		Prepared: 01/20/22 07:11		Analyzed: 01/20/22 21:25								**Q-19**
NWTPH-Dx LL												
Diesel	433	---	80.0	ug/L	1	500	---	87	36 - 132%	9	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*		*Dilution: 1x*						

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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 22A0649 - EPA 5030B												**Water**
Blank (22A0649-BLK1)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 10:12								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*100 %*		*50-150 %*		*"*					
LCS (22A0649-BS2)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 09:46								
NWTPH-Gx (MS)												
Gasoline Range Organics	472	---	100	ug/L	1	500	---	94	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*98 %*		*50-150 %*		*"*					
Duplicate (22A0649-DUP2)		Prepared: 01/19/22 10:24		Analyzed: 01/19/22 21:15								
QC Source Sample: HC11-W (A2A0618-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*108 %*		*50-150 %*		*"*					

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0649 - EPA 5030B												**Water**
Blank (22A0649-BLK1)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 10:12								
EPA 8260D												
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	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 101 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*103 %*		*80-120 %*			*"*					
LCS (22A0649-BS1)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 09:18								
EPA 8260D												
Benzene	21.8	---	0.200	ug/L	1	20.0	---	109	80 - 120%	---	---	
Toluene	21.5	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Ethylbenzene	21.9	---	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
Xylenes, total	67.7	---	1.50	ug/L	1	60.0	---	113	80 - 120%	---	---	
Naphthalene	21.0	---	2.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*99 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*95 %*		*80-120 %*			*"*					
Duplicate (22A0649-DUP2)		Prepared: 01/19/22 10:24		Analyzed: 01/19/22 21:15								
QC Source Sample: HC11-W (A2A0618-11)												
EPA 8260D												
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%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 96 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*100 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*80-120 %*			*"*					

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Cameron O'Brien, Project Manager

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0618 - 02 08 22 1708

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0649 - EPA 5030B							Water					
Blank (22A0649-BLK1)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 10:12								
EPA 8260D												
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	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*101 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*103 %*		*80-120 %*			*"*				
LCS (22A0649-BS1)		Prepared: 01/19/22 08:00		Analyzed: 01/19/22 09:18								
EPA 8260D												
Benzene	21.8	---	0.200	ug/L	1	20.0	---	109	80 - 120%	---	---	
Toluene	21.5	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Ethylbenzene	21.9	---	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
Xylenes, total	67.7	---	1.50	ug/L	1	60.0	---	113	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	21.7	---	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
Naphthalene	21.0	---	2.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	22.2	---	0.500	ug/L	1	20.0	---	111	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	22.3	---	0.500	ug/L	1	20.0	---	111	80 - 120%	---	---	
Isopropylbenzene	23.6	---	1.00	ug/L	1	20.0	---	118	80 - 120%	---	---	
1,2,4-Trimethylbenzene	22.1	---	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
1,3,5-Trimethylbenzene	22.9	---	1.00	ug/L	1	20.0	---	114	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*100 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*95 %*		*80-120 %*			*"*				
Duplicate (22A0649-DUP2)		Prepared: 01/19/22 10:24		Analyzed: 01/19/22 21:15								

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Cameron O'Brien, Project Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

HydroCon LLC	Project:	ES&S 5800 S 6th St K Falls
314 W 15th Street Suite 300	Project Number:	2022-001C
Vancouver, WA 98660	Project Manager:	Dave Borys

Report ID:
A2A0618 - 02 08 22 1708

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0649 - EPA 5030B							Water					
Duplicate (22A0649-DUP2)		Prepared: 01/19/22 10:24		Analyzed: 01/19/22 21:15								
QC Source Sample: HC11-W (A2A0618-11)												
EPA 8260D												
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%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 96 %*		*Limits: 80-120 %*				*Dilution: 1x*			
Toluene-d8 (Surr)			*100 %*		*80-120 %*				*"*			
4-Bromofluorobenzene (Surr)			*97 %*		*80-120 %*				*"*			

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Cameron O'Brien, Project Manager

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503-718-2323
ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0882 - EPA 3510C (Acid Extraction)									Water			
Blank (22A0882-BLK1)		Prepared: 01/25/22 12:47		Analyzed: 01/25/22 18:30								
EPA 8270E SIM												
Acenaphthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.0727	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.0727	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.0727	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		*Recovery: 93 %*		*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)		*100 %*		*50-134 %*			*"*					
LCS (22A0882-BS1)		Prepared: 01/25/22 12:47		Analyzed: 01/25/22 18:55								
EPA 8270E SIM												
Acenaphthene	6.60	---	0.0400	ug/L	1	8.00	---	82	47 - 122%	---	---	
Acenaphthylene	6.68	---	0.0400	ug/L	1	8.00	---	83	41 - 130%	---	---	
Anthracene	6.74	---	0.0400	ug/L	1	8.00	---	84	57 - 123%	---	---	
Benz(a)anthracene	7.01	---	0.0400	ug/L	1	8.00	---	88	58 - 125%	---	---	
Benzo(a)pyrene	7.35	---	0.0400	ug/L	1	8.00	---	92	54 - 128%	---	---	
Benzo(b)fluoranthene	8.13	---	0.0400	ug/L	1	8.00	---	102	53 - 131%	---	---	
Benzo(k)fluoranthene	7.88	---	0.0400	ug/L	1	8.00	---	99	57 - 129%	---	---	
Benzo(g,h,i)perylene	5.25	---	0.0400	ug/L	1	8.00	---	66	50 - 134%	---	---	
Chrysene	6.74	---	0.0400	ug/L	1	8.00	---	84	59 - 123%	---	---	

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Cameron O'Brien, Project Manager

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0882 - EPA 3510C (Acid Extraction)							**Water**					
LCS (22A0882-BS1)		Prepared: 01/25/22 12:47		Analyzed: 01/25/22 18:55								
Dibenz(a,h)anthracene	7.00	---	0.0400	ug/L	1	8.00	---	88	51 - 134%	---	---	
Fluoranthene	7.00	---	0.0400	ug/L	1	8.00	---	88	57 - 128%	---	---	
Fluorene	6.53	---	0.0400	ug/L	1	8.00	---	82	52 - 124%	---	---	
Indeno(1,2,3-cd)pyrene	5.98	---	0.0400	ug/L	1	8.00	---	75	52 - 134%	---	---	
1-Methylnaphthalene	5.97	---	0.0800	ug/L	1	8.00	---	75	41 - 120%	---	---	
2-Methylnaphthalene	5.70	---	0.0800	ug/L	1	8.00	---	71	40 - 121%	---	---	
Naphthalene	5.99	---	0.0800	ug/L	1	8.00	---	75	40 - 121%	---	---	
Phenanthrene	6.63	---	0.0400	ug/L	1	8.00	---	83	59 - 120%	---	---	
Pyrene	6.75	---	0.0400	ug/L	1	8.00	---	84	57 - 126%	---	---	
Dibenzofuran	6.60	---	0.0400	ug/L	1	8.00	---	82	53 - 120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		*Recovery: 88 %*		*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)		*96 %*		*50-134 %*			*"*					
LCS Dup (22A0882-BSD1)		Prepared: 01/25/22 12:47		Analyzed: 01/25/22 19:20								**Q-19**
EPA 8270E SIM												
Acenaphthene	6.73	---	0.0400	ug/L	1	8.00	---	84	47 - 122%	2	30%	
Acenaphthylene	6.74	---	0.0400	ug/L	1	8.00	---	84	41 - 130%	1	30%	
Anthracene	6.99	---	0.0400	ug/L	1	8.00	---	87	57 - 123%	4	30%	
Benz(a)anthracene	7.19	---	0.0400	ug/L	1	8.00	---	90	58 - 125%	2	30%	
Benzo(a)pyrene	7.34	---	0.0400	ug/L	1	8.00	---	92	54 - 128%	0.2	30%	
Benzo(b)fluoranthene	8.03	---	0.0400	ug/L	1	8.00	---	100	53 - 131%	1	30%	
Benzo(k)fluoranthene	7.98	---	0.0400	ug/L	1	8.00	---	100	57 - 129%	1	30%	
Benzo(g,h,i)perylene	5.41	---	0.0400	ug/L	1	8.00	---	68	50 - 134%	3	30%	
Chrysene	6.88	---	0.0400	ug/L	1	8.00	---	86	59 - 123%	2	30%	
Dibenz(a,h)anthracene	7.10	---	0.0400	ug/L	1	8.00	---	89	51 - 134%	1	30%	
Fluoranthene	7.24	---	0.0400	ug/L	1	8.00	---	91	57 - 128%	3	30%	
Fluorene	6.78	---	0.0400	ug/L	1	8.00	---	85	52 - 124%	4	30%	
Indeno(1,2,3-cd)pyrene	6.05	---	0.0400	ug/L	1	8.00	---	76	52 - 134%	1	30%	
1-Methylnaphthalene	6.06	---	0.0800	ug/L	1	8.00	---	76	41 - 120%	1	30%	
2-Methylnaphthalene	5.72	---	0.0800	ug/L	1	8.00	---	72	40 - 121%	0.3	30%	
Naphthalene	5.91	---	0.0800	ug/L	1	8.00	---	74	40 - 121%	1	30%	
Phenanthrene	6.88	---	0.0400	ug/L	1	8.00	---	86	59 - 120%	4	30%	
Pyrene	7.11	---	0.0400	ug/L	1	8.00	---	89	57 - 126%	5	30%	
Dibenzofuran	6.77	---	0.0400	ug/L	1	8.00	---	85	53 - 120%	3	30%	

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0882 - EPA 3510C (Acid Extraction)												**Water**
LCS Dup (22A0882-BSD1)			Prepared: 01/25/22 12:47 Analyzed: 01/25/22 19:20									**Q-19**
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 86 %*	*Limits: 44-120 %*	*Dilution: 1x*							
p-Terphenyl-d14 (Surr)			*89 %*	*50-134 %*	*"*							

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Cameron O'Brien, Project Manager

APEX LABORATORIES

ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

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: 22A0588							
A2A0618-01RE1	Water	NWTPH-Dx LL	01/14/22 11:20	01/18/22 15:18	1060mL/2mL	1000mL/2mL	0.94
A2A0618-02	Water	NWTPH-Dx LL	01/14/22 11:45	01/18/22 15:18	1060mL/2mL	1000mL/2mL	0.94
A2A0618-03RE1	Water	NWTPH-Dx LL	01/14/22 12:00	01/18/22 15:18	1060mL/2mL	1000mL/2mL	0.94
A2A0618-04	Water	NWTPH-Dx LL	01/14/22 12:55	01/18/22 15:18	1060mL/2mL	1000mL/2mL	0.94
A2A0618-05	Water	NWTPH-Dx LL	01/14/22 13:20	01/18/22 15:18	1060mL/2mL	1000mL/2mL	0.94
Batch: 22A0704							
A2A0618-06	Water	NWTPH-Dx LL	01/14/22 14:10	01/20/22 07:11	1060mL/2mL	1000mL/2mL	0.94
A2A0618-07	Water	NWTPH-Dx LL	01/14/22 15:20	01/20/22 07:11	1060mL/2mL	1000mL/2mL	0.94
A2A0618-08	Water	NWTPH-Dx LL	01/14/22 15:50	01/20/22 07:11	1060mL/2mL	1000mL/2mL	0.94
A2A0618-09	Water	NWTPH-Dx LL	01/14/22 16:20	01/20/22 07:11	1060mL/2mL	1000mL/2mL	0.94
A2A0618-10	Water	NWTPH-Dx LL	01/14/22 16:45	01/20/22 07:11	1060mL/2mL	1000mL/2mL	0.94
A2A0618-11	Water	NWTPH-Dx LL	01/14/22 17:00	01/20/22 07:11	930mL/2mL	1000mL/2mL	1.08

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: 22A0649							
A2A0618-01	Water	NWTPH-Gx (MS)	01/14/22 11:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-02	Water	NWTPH-Gx (MS)	01/14/22 11:45	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-03	Water	NWTPH-Gx (MS)	01/14/22 12:00	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-04	Water	NWTPH-Gx (MS)	01/14/22 12:55	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-05	Water	NWTPH-Gx (MS)	01/14/22 13:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-06	Water	NWTPH-Gx (MS)	01/14/22 14:10	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-07	Water	NWTPH-Gx (MS)	01/14/22 15:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-08	Water	NWTPH-Gx (MS)	01/14/22 15:50	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-09	Water	NWTPH-Gx (MS)	01/14/22 16:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-10	Water	NWTPH-Gx (MS)	01/14/22 16:45	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-11	Water	NWTPH-Gx (MS)	01/14/22 17:00	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00

BTEX+N Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0649							
A2A0618-01	Water	EPA 8260D	01/14/22 11:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

Cameron O'Brien, Project Manager

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

HydroCon LLC	Project: ES&S 5800 S 6th St K Falls	
314 W 15th Street Suite 300	Project Number: 2022-001C	Report ID:
Vancouver, WA 98660	Project Manager: Dave Borys	A2A0618 - 02 08 22 1708

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2A0618-02	Water	EPA 8260D	01/14/22 11:45	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-04	Water	EPA 8260D	01/14/22 12:55	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-05	Water	EPA 8260D	01/14/22 13:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-06	Water	EPA 8260D	01/14/22 14:10	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-07	Water	EPA 8260D	01/14/22 15:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-08	Water	EPA 8260D	01/14/22 15:50	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-09	Water	EPA 8260D	01/14/22 16:20	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-10	Water	EPA 8260D	01/14/22 16:45	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00
A2A0618-11	Water	EPA 8260D	01/14/22 17:00	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0649							
A2A0618-03	Water	EPA 8260D	01/14/22 12:00	01/19/22 10:24	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0882							
A2A0618-03	Water	EPA 8270E SIM	01/14/22 12:00	01/25/22 12:47	1060mL/2mL	1000mL/2mL	0.94

Apex Laboratories

Cameron O'Brien, Project Manager

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503-718-2323
ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

QUALIFIER DEFINITIONS

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

Apex Laboratories

F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
H-06	This sample was received, or the analysis requested, outside the recommended holding time.
PRES	Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

Apex Laboratories

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

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

NR Result Not Reported.

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

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

Apex Laboratories

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Cameron O'Brien, Project Manager

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ORELAP ID: **OR100062**

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

LABORATORY ACCREDITATION INFORMATION

ORELAP 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

Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

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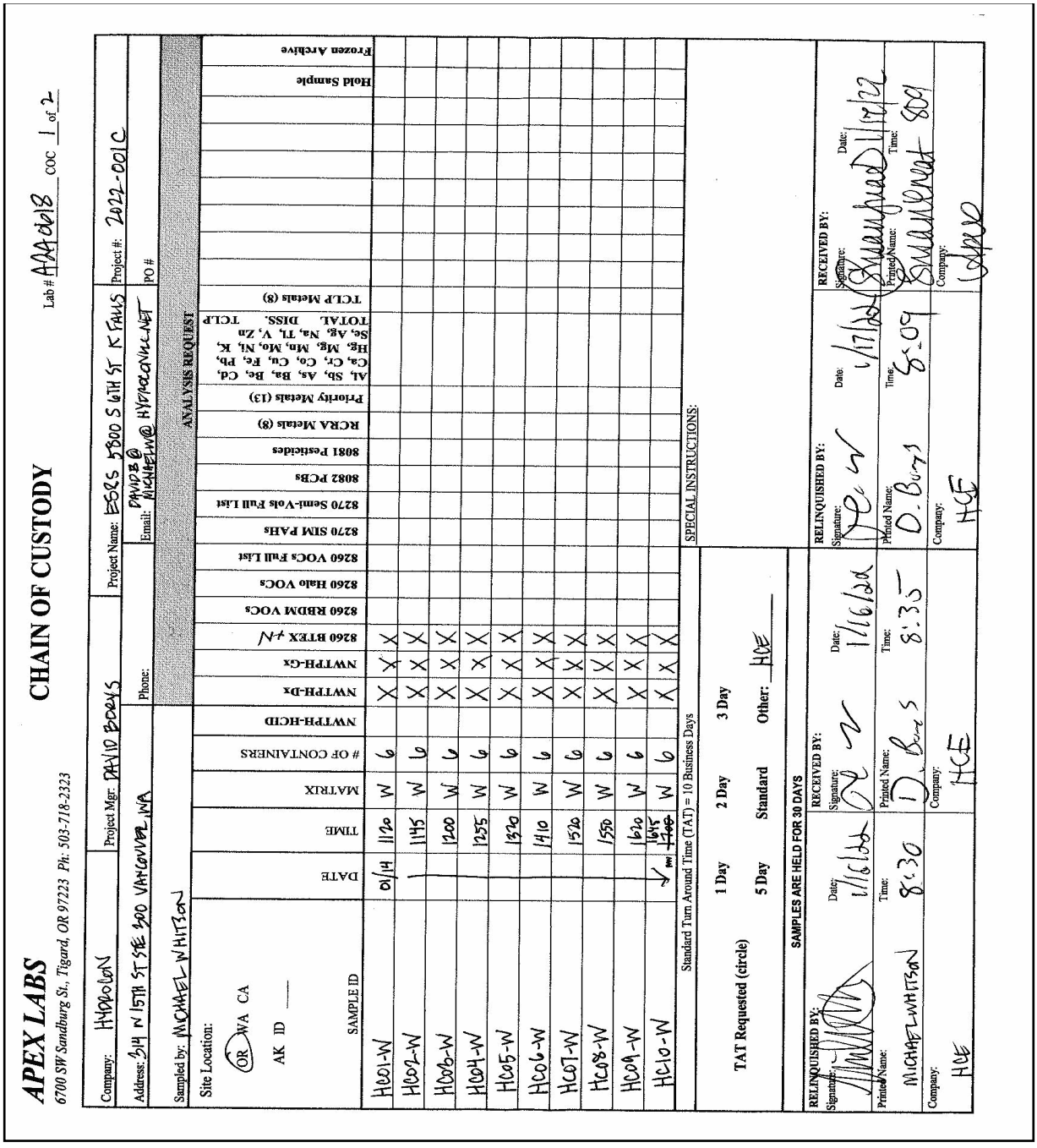
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**



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

CHAIN OF CUSTODY

Lab # A2A0618 COC 1 of 2

Company: HYDROCON — Project Mgr: DAVID BORYS — Project Name: ES&S 5800 S 6TH ST K FALLS — Project #: 2022-001C
Address: 314 W 15TH ST STE 300 VANCOUVER, WA — Phone: — Email: DAVIDB@HYDROCONLLC.NET — PO #
Sampled by: MICHAEL WHITSON

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

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX +N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	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)	Hold Sample	Frozen Archive
HC01-W	01/14	1120	W	6		X	X	X													
HC02-W		1145	W	6		X	X	X													
HC03-W		1200	W	6		X	X	X													
HC04-W		1235	W	6		X	X	X													
HC05-W		1330	W	6		X	X	X													
HC06-W		1410	W	6		X	X	X													
HC07-W		1520	W	6		X	X	X													
HC08-W		1550	W	6		X	X	X													
HC09-W		1630	W	6		X	X	X													
HC10-W	~~1/14~~ 1/15	1645	W	6		X	X	X													

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: HOLD

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

	RELINQUISHED BY:	RECEIVED BY:
Signature:		
Date:	1/16/22	1/16/22
Time:	8:30	8:35
Printed Name:	MICHAEL WHITSON	D. Borys
Company:	HCE	HCE

	RELINQUISHED BY:	RECEIVED BY:
Signature:		Emmanuel Dickson
Date:	1/17/22	1/17/22
Time:	8:09	8:09
Printed Name:		Emmanuel Dickson
Company:		Apex

Apex Laboratories

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Cameron O'Brien, Project Manager

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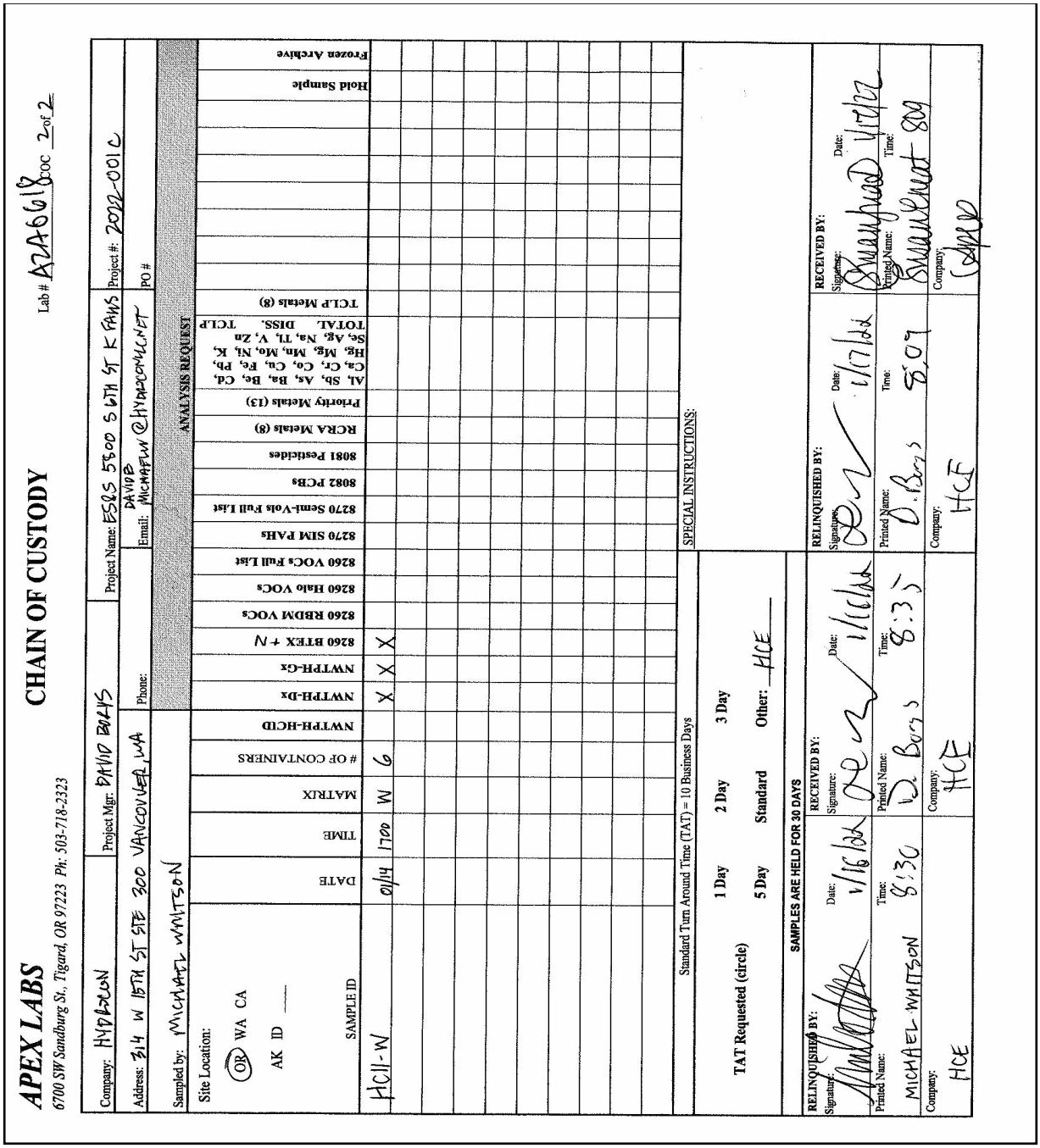
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**



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

CHAIN OF CUSTODY

Lab # A2A0618 COC 2 of 2

Company: HYDROCON
Project Mgr: DAVID BORYS
Project Name: ES&S 5800 S 6TH ST K FALLS
Project #: 2022-001C
Address: 314 W 15TH ST STE 300 VANCOUVER, WA
Phone:
Email: MICHAELW@HYDROCONLLC.NET
PO #
Sampled by: MICHAEL WHITSON
Site Location: (OR) WA CA AK ID ____

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX + N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	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)	Hold Sample	Frozen Archive
HC11-W	01/14	1100	W	6		X	X	X													

ANALYSIS REQUEST

Standard Turn Around Time (TAT) = 10 Business Days
TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: HCE

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	1/16/22		Signature:		
Printed Name: MICHAEL WHITSON		8:30	Printed Name: D. Borys		8:30
Company: HCE			Company: HCE		

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	1/17/22		Signature:	1/17/22	
Printed Name: D. Borys		8:09	Printed Name: Brandhurst		809
Company: HCE			Company: Campbell		

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

HydroCon LLC	Project: **ES&S 5800 S 6th St K Falls**	
314 W 15th Street Suite 300	Project Number: **2022-001C**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Dave Borys**	**A2A0618 - 02 08 22 1708**

APEX LABS COOLER RECEIPT FORM

Client: Hydrocon Element WO#: A2 A0618

Project/Project #: ES+S 5800 S 6th St K Falls / 2022-001C

Delivery Info:

Date/time received: 1/17/22 @ 809 By: (SC)

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

Cooler Inspection Date/time inspected: 1/17/22 @ 819 By: (SC)

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.2	3.3	4.0				
Received on ice? (Y/N)	Y	Y	Y				
Temp. blanks? (Y/N)	Y	Y	Y				
Ice type: (Gel/Real/Other)	real	real	real				
Condition:	good	good	good				

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

Green dots applied to out of temperature samples? Yes/(No)

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

Sample Inspection: Date/time inspected: 1/17/21 @ 18:30 By: ZDM

All samples intact? Yes X No ___ Comments: ___

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

COC/container discrepancies form initiated? Yes ___ No X

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

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

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: Witness: Cooler Inspected by: ZDM

Apex Laboratories

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