First Quarter 2018 Groundwater Monitoring Report

JH Kelly 821 3rd Avenue, Longview, WA

> Prepared for: Mr. Mark Fleischauer JH Kelly Holdings, LLC Seattle, Washington

> > April 5, 2018

Prepared by:



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Hydro Con

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1.0 INTRODUCTION

HydroCon, LLC (HydroCon) is pleased to present this summary of activities performed at the above referenced site shown on Figure 1. This report documents quarterly groundwater monitoring events conducted at the site in March 2018.

1.1 Description of Property

The J.H. Kelly, Inc. (J.H. Kelly) subject site is located at 821 3rd Avenue in Longview, Washington. The site is located in a mixed use area and is surrounded by industrial, commercial, residential, and recreational properties (Figure 1). The Cowlitz River is located approximately 1,060 feet east of the site and Cowlitz County Diking District drainage Ditch Number Five is located along the western property boundary of the site. The site is made up of several large buildings and is mostly paved with asphalt. The property is used for fabrication of pipe and storage of finished and stock materials.

A fueling system for J.H. Kelly vehicles was located near the center of the site. The fueling system consisted of two underground storage tanks (USTs), one 10,000 gallon gasoline UST, and one 4,000 gallon diesel UST. The fuel dispensers were located on the western edge of the UST nest. The UST system was removed in 1989 and is discussed in more detail in the following sections. Figure 2 shows the current site layout and approximate location of the former UST system.

1.2 Site History

Pre-Tank Removal (July & September 1989)

On July 15, 1989, JH Kelly had a pressure test conducted on the USTs (one 10,000 gallon unleaded fuel tank, and one 4,000 gallon diesel tank) and both tanks passed the tightness test. A subsurface investigation was conducted by SRH Environmental Management on August 23, 1989. The test pit was located north of the fuel dispenser island and excavated to a depth of 18 feet below ground surface (bgs). Two soil samples were taken from the test pit and were composited by the lab into one sample for analysis. BTEX and TPH (EPA Method 418.1) were analyzed. BTEX constituents were below laboratory detection limits. A total TPH of 58 mg/Kg was reported. Only benzene had a detection limit greater than the Washington State Department of Ecology (Ecology) cleanup level (CUL). The detection limit for benzene was 0.04 mg/Kg. Reportedly, the excavation location was chosen based on a soil gas survey. The soil gas survey was not provided for review.

UST Removal (November 1991)

The USTs were decommissioned in November of 1991 by Pacific Northern Environmental (PNE). Fuel dispensers, USTs, and ancillary equipment were removed. Field screening with a photo-ionization detector (PID) indicated petroleum contaminated soil (PCS) below the dispensers. PCS was also noted around each of the USTs as they were removed. A water sample was taken from the excavation pit and

had MTCA Method A cleanup level (CUL) exceedances for diesel range petroleum hydrocarbons (DRPH) (24,000 μ g/L), gasoline range petroleum hydrocarbons (GRPH) (130,000 μ g/L), benzene (4,100 μ g/L), toluene (18,000 μ g/L), ethylbenzene (5,300 μ g/L), and xylenes (32,000 μ g/L).

Four soil samples (one sample from each end of the two USTs) were collected from the soil/groundwater interface and analyzed for total petroleum hydrocarbons (TPH) by EPA Method 3550/8015 Modified. One of the samples (JHK-SS3-12.5') had an oil range petroleum hydrocarbons (ORPH) concentration of 480 mg/Kg which exceeded the CUL at the time of 200 mg/Kg. Two of the four samples were analyzed for BTEX. One of the samples (JHK-SS5-12.5') had a benzene concentration of 1.10 mg/Kg which exceeded the CUL. A remedial excavation was performed in the areas where ORPH (west end of the UST) and benzene (east end of the USTs) had exceeded their respective CULs. Following remedial excavation activities confirmation samples were collected from the area with the ORPH exceedance (JHK-SS5-12.5'). The confirmation sample had DRPH concentration of 120 mg/Kg and a ORPH concentration of 120 mg/Kg. The confirmation sample taken from the area with the benzene exceedance was below the laboratory detection limit for all BTEX constituents. It should be noted that the laboratory detection limit for the benzene analysis was 0.1 mg/Kg, which is greater than the current CUL of 0.03 mg/Kg. Therefore, it is unknown whether the remedial excavation was successful at reducing benzene concentrations below the MTCA Method A Cleanup Level.

Groundwater Monitoring (December 1991 to 2006)

Prior to backfilling the remedial excavation, a monitoring well (JHK-MW) was installed in the UST excavation during the week of November 22, 1991. The monitoring well was constructed using a 30-inch diameter steel pipe to a depth of 10 feet bgs with a 24 inch slotted PVC casing inserted inside the steel casing from 9 to 12 feet bgs. The monitoring well location is shown on Figure 2. It should be noted that this well construction does not comply with current Ecology specifications.

The initial sampling results from December 1991 showed exceedances of GRPH (1,010 μ g/L), ORPH (3,340 μ g/L), and benzene (30 μ g/L) above their respective CUL. Follow up sampling in May 1992 showed no detectible TPH in the well but showed an exceedance for benzene (11.1 μ g/L) above the CUL. The next sampling event in June of 1993 detected an exceedance of DRPH (270,000 μ g/L) and a quantity of TPH designated as "Other" that was 6,000 μ g/L. The DRPH concentration is reported to be flagged as not matching the typical diesel fingerprint chromatogram. "Other" is not defined in the laboratory report. There is also no oil range results reported for TPH. It is not clear from the report if TPHO was not detected, or not analyzed. None of the BTEX constituents exceeded the CUL.

The sampling event in April 1996 indicated that TPH was below laboratory their respective detection limits except for something designated as "Other". The "Other" result (279 μ g/L) is flagged as eluting in the diesel range, but not matching the typical diesel fingerprint chromatogram. All BTEX constituents were below the laboratory detection limits.

The sampling event in April 2006 included samples collected from JHK-MW and the ditch behind the site. Analytical results indicated that both samples were below their respective laboratory detection limits.

The well was sampled twice in 2016 (April and July). Analytical results indicated that all samples were below their respective laboratory detection limits.

2017 Phase II ESA

A Phase II ESA was completed based on correspondence from Ecology dated October 31, 2016, in response to a request by the property owner for a determination of No Further Action (NFA) for the subject property. On September 26, 2017, Ecology Project Manager for the site, Aaron Fiedler, was contacted to discuss a proposed scope of work for the subject property that could result in a no further action determination (NFA). The scope of work for this Phase II ESA was approved by Ecology and would be sufficient to justify a NFA determination if all conditions were achieved.

On October 11, 2017, HydroCon conducted a subsurface investigation and included a total of five direct push borings (HC01 through HC05) advanced to a maximum depth of 15 feet bgs to evaluate soil and groundwater conditions in the vicinity of the former UST excavation. Analytical results indicated that only a low concentration of ORPH was detected in the soil samples collected at 10 feet bgs at HC01 and HC02. The location of these samples are centrally located and along the eastern boundary of the former UST excavation. It is assumed that the likely source of the ORPH in the HC01-10 and HC02-10 samples is from the imported fill material used at the site and not from the release of the former UST system. Boring locations are shown on Figure 2.

DRPH was detected above the MTCA Method A cleanup level in the groundwater samples collected from HC01, HC02, and HC04. In addition, MTBE was detected above the MTCA Method A cleanup level in HC04. Groundwater results are summarized on Table 1.

It should be noted that water samples collected from temporary borings are screening level quality only and should not be solely relied upon for site characterization purposes. The drilling and sampling method used (direct push) produces disturbed (turbid) samples and may not represent groundwater conditions. Groundwater samples collected from properly constructed and developed monitoring wells produces relatively non turbid samples. It's possible that the concentrations of contaminants will be significantly lower in groundwater samples collected from properly constructed and developed monitoring wells than from temporary borings.

Based on historic and current groundwater data, it is HydroCon's opinion that the remaining groundwater contamination has decreased significantly over time and will naturally attenuate to concentrations below the MTCA Method A cleanup level.

December 2017 Monitoring Well Installation

On December 12 and 13, 2017, HydroCon supervised the installation on monitoring wells MW01 through MW04. Soil samples were collected at the groundwater interface and analyzed for petroleum

hydrocarbons. The results indicated that none of the samples had detections above the MTCA Method A cleanup levels. The monitoring wells were constructed using 2-inch diameter PVC casing and a 15 foot length of 0.010-inch slotted well screen placed from approximately 5 to 20 feet bgs. Well construction details are documented on the boring logs¹.

The monitoring wells were sampled on December 18, 2017 with the following results:

- MW01 DRPH (851 μg/L) was detected in the sample.
- MW02 DRPH (375 ug/L), GRPH (117 µg/L) and MTBE (3.21 µg/L) were detected in the sample.
- MW03 DRPH (416 μg/L) was detected in the sample.
- MW04 ORPH (179 μg/L) was detected in the sample.

The results indicated that the sample collected from MW01 had a detection of DRPH above the MTCA Method A cleanup level (500 μ g/L). Groundwater sampling result are presented in Table 1.

1.3 Regional Geology and Hydrogeology

The geology of southwestern Cowlitz County is characterized by sedimentary and volcanic deposits laid down or extruded during the Tertiary and Quaternary periods (Livingston, 1966). The oldest formations (Cowlitz Formation and Goble Volcanics) include Eocene basaltic andesite and volcanoclastic deposits which were deposited 45 to 32 million years ago (Phillips, 1987). Lava flows of the Columbia River Basalt Group overlie the older formations. The next youngest rocks exposed in the area are the Upper Miocene to Lower Pleistocene sand, silt, gravel, and conglomerate of the Troutdale Formation. The valley fill material represents deposits of the ancestral Columbia River. The dissected upland that bound the Columbia River valley is composed of these older Formations. The youngest material exposed in the region is the outburst deposits of glacial Lake Missoula, landslide deposits, and recent alluvium.

Regional hydrogeology in the vicinity of the site is characterized by recharge to bedrock in the upland areas and discharge into the Columbia River. Groundwater flows from the regional bedrock through the thick alluvial sequence in the river valley before discharging into the rivers (Meyers, 1970). Precipitation also infiltrates the surface of the alluvium, recharging local flow systems in the river's floodplain.

1.4 Local Geology and Hydrogeology

Locally the geology consists of fill material down to approximately 9 to 10 feet bgs. The fill consisted of chunks of wood, asphalt, concrete, rebar, and bricks in a matrix of silt, sand, and gravel². Below the fill material is native sands and silts. A layer of grass and reeds was observed at the top of the native soils indicating the area had once been ground surface. Groundwater flow direction calculated during the

¹HydroCon, *Monitoring Well Installation and Sampling Report* (February 14, 2018)

² SRH Environmental Management, *Report on Soil Sampling and Analysis* (September 1, 1989)

October 2017 Phase II ESA was to the southwest towards Ditch Number Five. Flow direction was estimated using water levels collected on October 11, 2017 from temporary borings in relation to a ground surface elevation survey conducted upon completion of drilling activities. The well lid of the existing monitoring well (JHK-MW) was used as the site datum. The datum was assigned an elevation of 100 feet.

2.0 QUARTERLY GROUNDWATER MONITORING

On March 5, 2018 HydroCon collected groundwater samples from monitoring wells MW01 through MW04. The locations of the monitoring wells are shown on Figure 2. A discussion of the sampling methodology, groundwater conditions, and laboratory analytical results is provided below.

2.1 Well Development

Additional well development efforts were conducted on monitoring MW01 on March 2, 2018, in an effort to reduce the suspended sediments in the well and to obtain a more representative groundwater sample. HydroCon personnel developed the well by surging and purging a total of 600 gallons of water from the well. The groundwater generated during the additional well development was discharged under permit to the City of Longview's sanitary system. A copy of the well development field form is included in Appendix A.

2.2 Groundwater Conditions

Prior to sampling, the well caps of the monitoring wells were removed and the water level was allowed to equilibrate prior to measuring the depth to water (DTW). The DTW in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north end of the top of the PVC casing) at each well. The static water levels in the monitoring wells varied between 4.42 feet and 7.41 feet below the top of the well casing (BTOC) during the March 5, 2018 sampling event. An apparent groundwater mound is present near MW04. The groundwater elevation calculated for MW04 is over 2 feet higher than monitoring wells MW01 through MW03.

A groundwater elevation contour map was generated from depth to water data collected on March 5, 2018. The groundwater flow direction south of the former UST excavation is towards the north and northwest. The groundwater gradient was calculated in the southern portion of the site is approximately 0.062 foot/foot. The groundwater elevations and groundwater contours are shown on Figure 3. Depth to groundwater measurements and groundwater elevations are summarized on Table 2.

2.3 Groundwater Sampling

Each monitoring well was purged, prior to sampling, with a low flow peristaltic pump equipped with new length of LDPE tubing attached to a new length of silicon tubing. Groundwater quality parameters (pH, temperature, and specific conductivity) were measured and recorded on a Groundwater Sample Collection field form along with the DTW measurements (Appendix A). Purging was completed when

the field parameters had stabilized within the prescribed limits.

Upon stabilization of the groundwater quality parameters, the groundwater samples were collected and placed in laboratory-prepared sampling containers. The samples were placed in an iced cooled along with the chain-of-custody documentation and transported APEX Laboratory, in Portland Oregon for analysis.

Groundwater generated during this monitoring event was placed in a labeled 55-gallon drum. The drum is being temporarily stored at the northwest corner of the building south of the investigation area.

2.4 Laboratory Analysis

A total of four groundwater samples were collected for laboratory analysis. Each sample was analyzed for the following set of parameters:

- GPRH by Northwest Method NWTPH-Gx.
- DPRH and ORPH by Northwest Method NWTPH-Dx.
- BTEX and MTBE by EPA Method 8260C.

2.5 Analytical Results

The groundwater analytical results are reported in micrograms per liter (μ g/L) (parts per billion) and are summarized below and on Table 2. Copies of the laboratory reports and chain-of-custody documents are included in Appendix B.

Groundwater analytical results indicate that there was no detection of GRPH, DRPH, ORPH, BTEX and MTBE in the monitoring wells MW-1 through MW-4 at concentrations above their respective laboratory Method Reporting Limits (MRLs).

3.0 **RECOMMENDATIONS**

Based on the results of the soil and groundwater sampling, HydroCon makes the following recommendations:

- Continue performing quarterly groundwater monitoring until groundwater data indicates that all contaminants of concern at all site monitoring wells have remained below their respective MTCA Method A cleanup levels.
- Determine the source of the groundwater mounding near MW04.

4.0 QUALIFICATIONS

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

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

This report is intended for the sole use of **JH Kelly**. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

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

Signature:

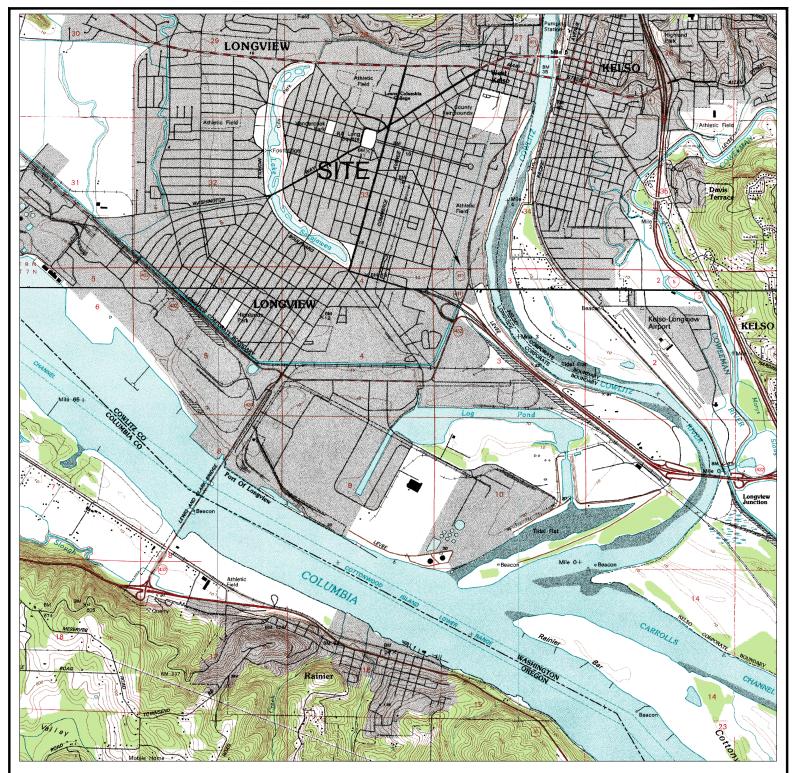
Report Prepared By:

Brian Pletcher Project Manager

Report Reviewed By:

Craig Hultgren, LHG Principal Geologist





NOTE(S):

USGS, RAINIER, OREGON AND KELSO, 1. WASHINGTON QUADRANGLES 7.5 MINUTE SERIES (TOPOGRAPHIC)



20<u>00</u> SCALE IN FEET 1" = 2000'

<u>40</u>00

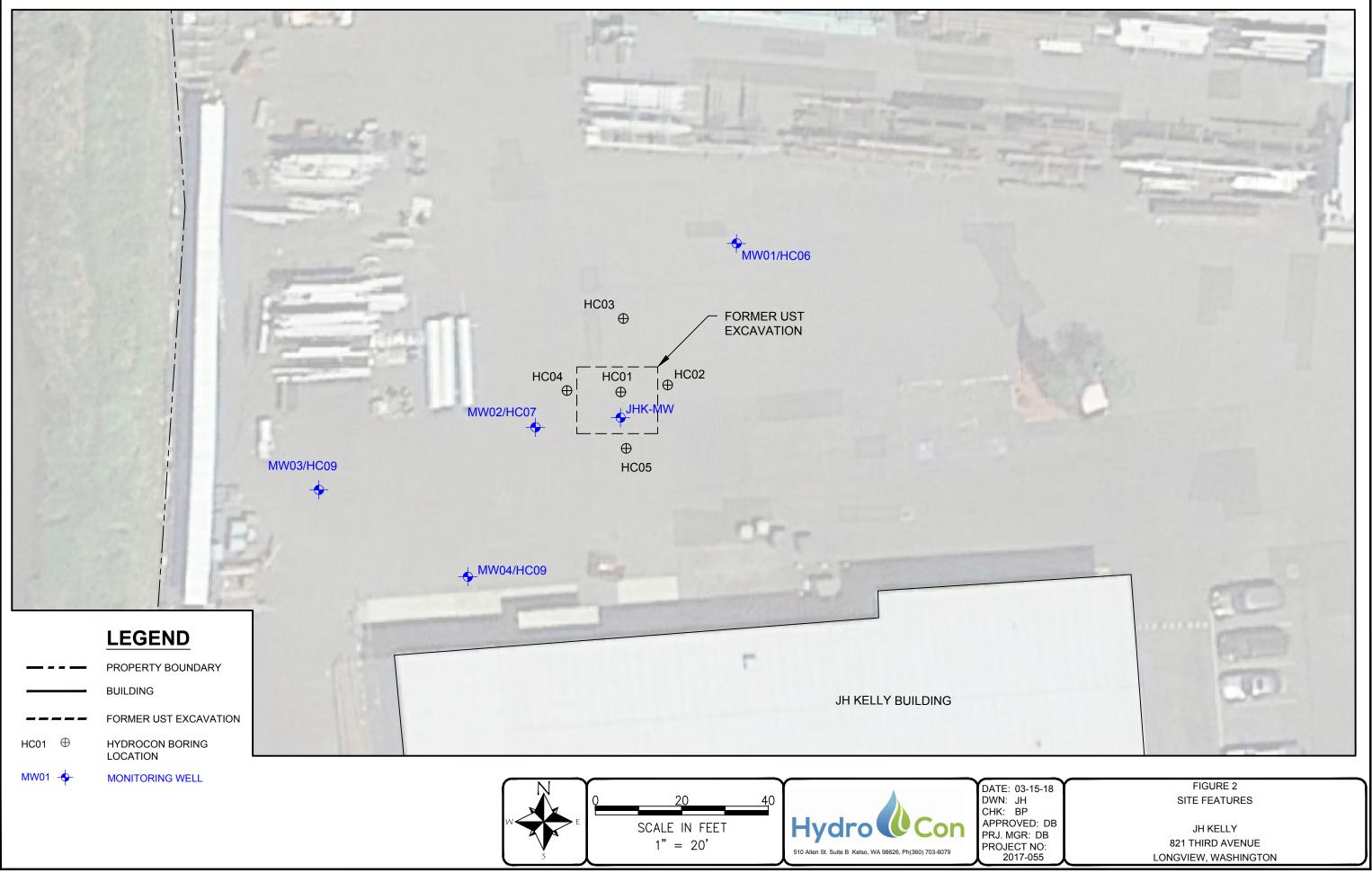
Hydro **Con** 501 Allen St Suite B, Kelso WA Ph: (360) 706-6079

DATE:03-15-18 DWN: JH CHK: BP APPROVED: BP PRJ. MGR:DB PROJECT NO:

2017-055

FIGURE 1 SITE LOCATION MAP

JH KELLY 821 THIRD AVENUE LONGVIEW, WASHINGTON



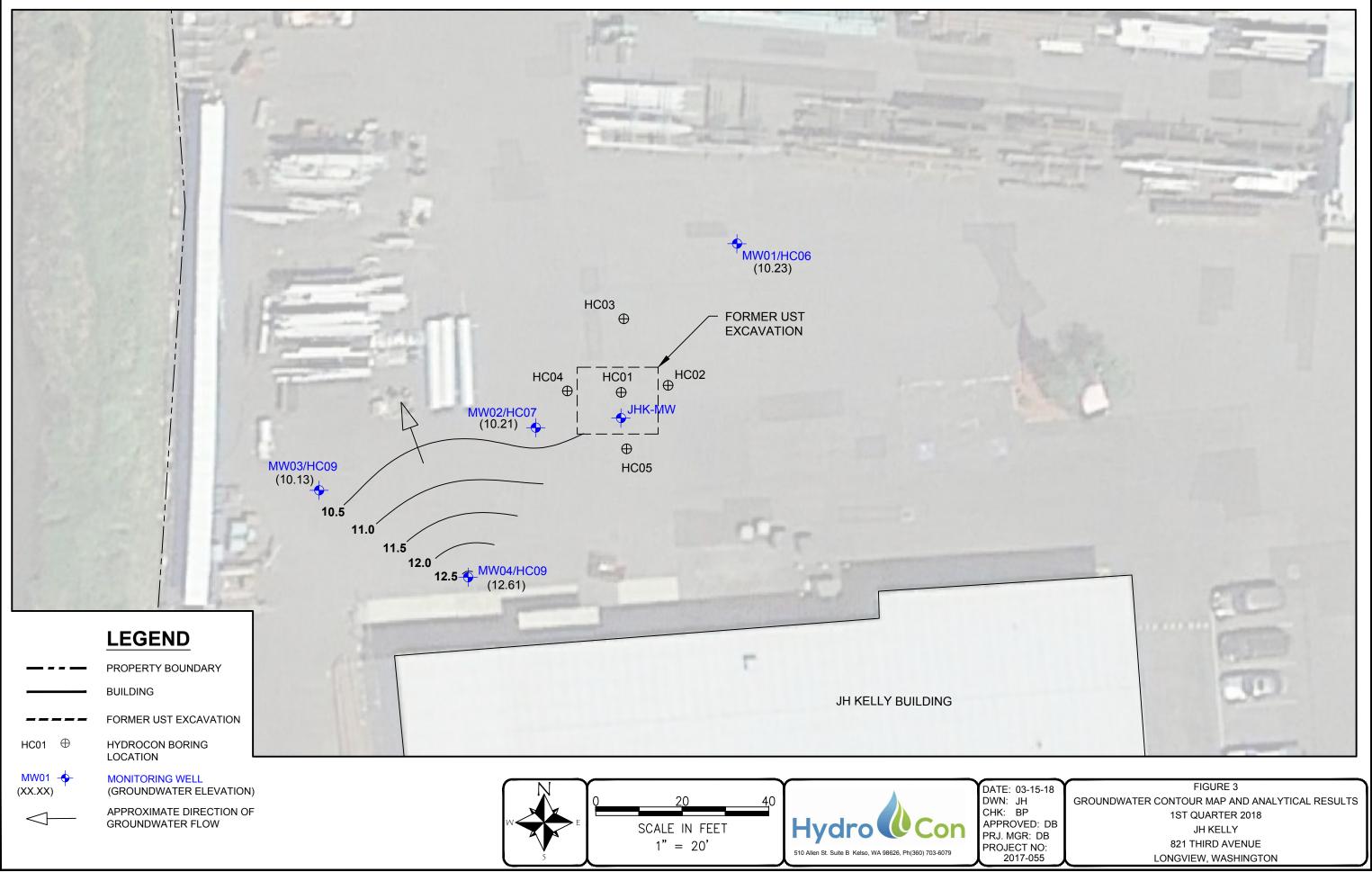


Table 1 JH Kelly Groundwater Analytical Results 821 3rd Aveneue, Longview, WA

		Fuels			-	-	Volatiles	-		-	Metal
	DКРН	ОКРН	GRPH	Benzene	Ethylbenzene	Toluene	Xylene, Total	EDB	EDC	MTBE	Lead, Total
	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l
WA Method A Cleanup	500	500	800 1000	5	700	1,000	1	0.01	5	20	15
Benzene (Non Detect)			1000								
Benzene (Detect)			800								
Field ID Date											

HydroCor	ydroCon Subsurface Investigation 2017											
HC01	10/11/2017	538 _{F13}	<151	<100	<0.200	<0.500	<1.0	<1.50	-	-	8.68	-
HC02	10/11/2017	<74.8	<150	<100	<0.200	<0.500	<1.0	<1.50	-	-	2.06	-
HC03	10/11/2017	636 _{F11}	<151	<100	<0.200	<0.500	1.56	<1.50	-	-	6.55	-
HC04	10/11/2017	1370 F13	<151	<100	<0.200	<0.500	<1.0	<1.50	<0.0200	<0.500	35.5	7.78
HC05	10/11/2017	<75.5	222 _{F13}	<100	<0.200	<0.500	<1.0	<1.50	-	-	1.43	-

Notes

Red denotes concentration exceeds MTCA Method A cleanup level.

MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

GRPH analyzed by Method NWTPH-Gx.

DRPH and ORPH analyzed by Method NWTPH-Dx.

Volatiles analyzed by EPA 8260B, 8260C or 8021B.

Metals analyzed by EPA Method 6010B, 6010C or 200.8.

ec - Method reporting limit exceeds Clean Up Level shown.

F11 - The hydrocarbon pattern indicates possible weathered diesel, or

a contribution from a related component.

F13 - The sample chromatographic pattern does not resemble the fuel standard used for quanititation.

s-05 Surrogate recovery is estimated do to sample dilution required for high analytie concentration and / or matrix interference.

- = not measured/not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit $\mu g/l$ = micrograms per liter

DRPH = Diesel Range Petroleum Hydrocarbons

EDB = 1,2-dibromoethane (ethylene dibromide)

EDC = 1,2-dichloroethylene (ethylene dichloride)

EPA = U.S. Environmental Protection Agency

GRPH = Gasoline Range Petroleum Hydrocarbons

MTBE = methyl tertiary-butyl ether

MTCA = Washington State Model Toxics Control Act

NWVPH = Northwest Volatile Petroleum Hydrocarbons

ORPH = Oil Range Petroleum Hydrocarbons

Table 2 JH Kelly Groundwater Analytical Results 821 3rd Aveneue, Longview, WA

		N	Measurement	S		Fuels				Volatiles		
		Top of Casing	Depth to Groundwater	Groundwater Elevation	ДКРН	ОКРН	GRPH	Benzene	Ethylbenzene	Toluene	Xylene, Total	MTBE
	Feet Feet Feet Results in µg/L											
Well ID	Date											
MW01	12/18/2017	17.64	7.54	10.10	851	<151	<100	<0.200	<0.500	<1.0	<1.50	<1.0
	3/5/2018	17.04	7.41	10.23	<74.8	<150	<100	<0.200	<0.500	<1.0	<1.50	<1.0
MW02	12/18/2017	17.02	7.04	9.98	375	<150	117	<0.200	<0.500	<1.0	<1.50	3.21
1010002	3/5/2018	17.02	6.81	10.21	<74.8	<150	<100	<0.200	<0.500	<1.0	<1.50	<1.0
MW03	MW03 12/18/2017 16.31 6.40 9.91 416 <150 <100 <0.200 <0.500 <1.0 <1.50 <1								<1.0			
3/5/2018 6.18 10.13 <74.8 <150 <100 <0.200 <0.500 <1.0 <1.50								<1.0				
MW04	12/18/2017	17.03	6.53	10.50	<74.8	179	<100	<0.200	<0.500	<1.0	<1.50	<1.0
1010004	3/5/2018	17.05	4.42	12.61	<74.8	<150	<100	<0.200	<0.500	<1.0	<1.50	<1.0
N	MTCA Method A	Groundwate	er Cleanup Lev	vels	500	500	800	5	700	1,000	1	20

Notes

Red denotes concentration exceeds MTCA Method A cleanup level.

MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340

of the Washington Administrative Code, revised November 2007.

GRPH analyzed by Method NWTPH-Gx.

DRPH and ORPH analyzed by Method NWTPH-Dx.

Volatiles analyzed by EPA 8260B, 8260C or 8021B.

- = not measured/not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit

µg/L = micrograms per liter

DRPH = Diesel Range Petroleum Hydrocarbons

ORPH = Oil Range Petroleum Hydrocarbons

GRPH = Gasoline Range Petroleum Hydrocarbons

MTBE = methyl tertiary-butyl ether

APPENDIX A FIELD FORMS



WELL DEVELOPMENT

Well ID #:MW01Project name:J14Kelly,Date:02March2018Project #:2017 - 055Time:1000Engineer:ChrisDaschel
WELL INFORMATION Monument condition & Good o Needs repair Well cap condition & Good o Locked o Replaced o Needs replacement Headspace reading & Not measured ppm Elevation mark o Yes o Added o Other Well diameter o 1.5-inch 2-inch o 4-inch o Other A Odor very light crypto Comments
WELL MEASUREMENTSTotal well depth $19, 74$ ftClean bottom o Muddy bottom o Not measuredDepth to productftDepth to waterftCasing volumeft (H20) X6 gpf = 2.05Casing volumes 1"=0.04 gpf 1.5"=0.09 gpf 2"=0.16 gpf 4"=0.65 gpf 6"= 1.47 gpf
PURGING INFORMATION Pump type o Peristaltic X Submersible o Centrifugal o Other Purge tubing o New LDPE X New HDPE o New Teflon o Other Bailer type o Disposable X Stainless o PVC o Other Bailer cord used X Monofillament o Other purge start time Purge stop time Purge Rate (GPM) Total Volume Purged (gallons)
FIELD PARAMETERS Meters used o FlowThru Cell o Hach o Hanna XOther Υ ST Gallons pH Temp. Conductivity Turbidity Dissolved Oxygen ORP 100 7.01 11.7 . 26.2 . 23.5 102.8 2010 6.89 11.5 . 254 . 2.31 135.0 300 6.82 11.5 . 255 . 2.60 160.1 400 6.914 11.6 . 255 . 2.90 173.9 500 7.05 11.5 . 204 . 2402 . 294.2
NOTES/COMMENTS (1015-1206) 225 gallons purged ; well recharged from 11.4 to 6.28 by 1225 (1227-1357) 250 gallons purged ; (1215- 125 gallons purged ;
Engineer's Signature Date_ 02 March 2016



GROUNDWATER SAMPLE COLLECTION FORM Well I.D. Number: MM୯୦/

WELL INFORMATION Monument condition: Good Reeds repair	Monument condition: Good Needs repair Water in Monument Well cap condition: Iso Good Replaced Needs replacement Surface Water in Well Headspace reading: X Not measured ppm Odor Vell diameter: Iso Interval(s): 4-inch 6-inch Other PURGING INFORMATION Total well depth 19.2+1 ft Bottom: X Hard Soft Not measured Scene Interval(s): 4'.2+ - (9.7+1) Depth to water 3.4.4 ft Intake Depth (BTOC) 12' Begin Purging Well: 12.05 Casing volume 12-3 ft (H_10) X C)_16 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"=1.47 gal/ft PURGING/DISPOSAL METHOD Pump type Water Disposal: X Drummed Remediation System Other	Hydrocor	ame: 1 Project # <u>:</u> vsM.r.ch	20	17-055			Sample I.D Field Duplica Personnel:	ate I.D		Time: <u>1230</u> Time: <u>-</u>
Total well depth 9.74 ft Bottom: And State Soft Not measured Screen Interval(s): 4.74 - (4.74) Depth to product Mart ft Intake Depth (BTOC) 12 ¹ Begin Purging Well: 12.05 Casing volume 12-3 ft (H ₂ O) X O_1 (6 gal/ft = 1.97 gal. X 3 = 5.91 gal. gal. X 3 = 5.91 gal. Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft PURP type Ed Peristatic Centrifugal Dedicated Bladder Inon-Dedicated Bladder Other Marce Disposal: Drummed Bailer type: Water Disposal: Drummed Remediation System Other Odor and/or Sheen: Ware Organiz all Intervolting all to the transpan="2">Dedicated Bladder Other Intervolting all to the transpan= 2" Dis	Total well depth 19.71 ft Bottom: Image: Ima	Monumer Well cap Headspac Well dian	nt condition condition: re reading: neter:	: 又 Go 又 Go 又 No 又 2-	ot measure inch [d] 4-inch	ppm	00	lor		
Pump type Peristaltic Centrifugal Dedicated Bladder Non-Dedicated Bladder Other	Pump type Peristaltic Centrifugal Dedicated Bladder Non-Dedicated Bladder Other Bailer type: Water Disposal:: Drummed Remediation System Other Mode and on the period of the pe	Total wel Depth to p Depth to v Casing vo	l depth^ roduct vater? lume1	1.71 4 2.3	ft Botto ft ft Intal ft (H ₂ O)	ke Depth XO₁	(BTOC) 1.6gal/ft	= <u>1.97</u> Begi	n Purging vvei gal. X 3 =_	5.91 ga	_ al.
Odor and/or Sheen: Kery Light organic of Time Water Level (BTOC) Purge Rate (L/min) Temp. (°C) Sp. Cond. (mS/cm) (±10% or ±3%) Dissolved Oxygen ±100 40.2) DRP (SU) (±10%) Turbidity (NTU) (±10% or st0) 12.0 ⁺ 7.46 12.9 2.09 4.79 6.71 196.0 100.6 12.10 7.46 12.9 2.025 1.93 6.744 42.5 7.474 12.16 7.46 12.9 2.024 1.67 6.744 42.5 7.474 12.16 7.46 12.7 2.024 0.66 6.79 400.3 5.750 12.17 7.46 12.6 2.01 5.60 6.20 36.6 5.62 12.25 7.46 12.6 2.01 5.60 6.80 72.0 4.91 12.25 7.46 12.6 2.01 5.60 6.80 72.0 4.91 12.25 7.46 12.6 2.01 5.60 6.80 72.0 4.91 12.25 7.46	Odor and/or Sheen: Kery Take of a construction of the superior of the supe	Pump typ	e 🖪 Perist	altic [] Centrifug				tion System [Other	10 Shoran
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Time Water Level (BTOC) Purge Rate (L/min) Temp. (°C) Sp. Cond. (mS/cm) Oxygen (±10% or (±0%) pH (SU) ORP (mV) Turbidity (NTU) (±10% or s10) 12.0 ⁺ 7.4.4 12.3 2.09 4.749 6.74 (28.5) 9.15 12.0 ⁺ 7.4.4 12.3 2.09 4.749 6.744 (28.5) 9.15 12.13 7.4.4 0.16 12.7 2.725 1.93 6.744 (28.5) 9.15 12.16 7.4.46 12.7 2.722 1.05 ⁺ 6.744 42.5 7.742 12.19 7.4.46 12.6 2.13 0.428 6.80 33.6 6.43 12.19 7.4.46 12.6 2.01 0.60 6.80 72.0 4.91 12.25 7.4.6 12.6 2.01 0.60 6.80 72.0 4.91 5tabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. 9/21/8 9/21/8 <th>FIELD P</th> <th>ARAMETE</th> <th>RS</th> <th></th> <th></th> <th></th> <th></th> <th>Odor and/or</th> <th>Sheen: Very</th> <th>light organic all</th>	FIELD P	ARAMETE	RS					Odor and/or	Sheen: Very	light organic all
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{1207}{1210} + \frac{1}{2.46} = \frac{12.8}{12.9} + \frac{2.09}{2.25} + \frac{1.93}{1.93} + \frac{6.71}{6.74} + \frac{196.0}{12.5} + \frac{100.6}{8.15} + \frac{112.9}{2.25} + \frac{2.25}{1.93} + \frac{1.93}{6.74} + \frac{196.0}{12.5} + \frac{190.6}{2.13} + \frac{196.0}{12.7} + \frac{196.0}{2.25} + \frac{197.74}{2.777} + \frac{11216}{2.77} + \frac{112.7}{2.727} + \frac{1.077}{2.74} + \frac{112.7}{2.727} + \frac{1.077}{2.74} + \frac{112.6}{2.00} + \frac{112.7}{2.727} + \frac{1.077}{2.746} + \frac{112.6}{2.00} + \frac{112.6}{$	Time	Level			Гетр. ([°] С)	(mS/cm)	Oxygen (±10% or	ີ (ຣບ)		(NTU)
$\frac{1213}{1216} + \frac{7.46}{7.46} + \frac{12.7}{12.7} + \frac{7.24}{2.22} + \frac{1.59}{6.76} + \frac{6.74}{33.6} + \frac{12.7}{2.724} + \frac{1.26}{12.7} + \frac{7.74}{2.722} + \frac{1.59}{6.76} + \frac{1.74}{33.6} + \frac{1.74}{5.6} + \frac{12.7}{2.744} + \frac{12.7}{2.722} + \frac{1.59}{2.746} + \frac{12.6}{2.722} + \frac{1.26}{2.746} + \frac{12.6}{2.01} + \frac{2.72}{0.66} + \frac{12.6}{6.80} + \frac{12.6}{2.0} + \frac{12.6}{0.66} + \frac{12.6}{6.80} + \frac{12.0}{2.0} + \frac{1.91}{12.6} + \frac{12.6}{2.01} + \frac{12.6}{0.66} + \frac{12.6}{6.80} + \frac{12.0}{2.0} + \frac{1.91}{12.6} + \frac{12.6}{2.01} + \frac{12.30}{0.66} + \frac{12.30}{0.66} + \frac{12.30}{0.60} $	12.13 7.46 0.16 12.7 2.24 1.59 6.74 42.5 7.74 1216 7.46 12.7 2.22 1.67 6.76 33.6 6.43 1219 7.46 12.6 2.13 0.48 6.80 36.6 5.62 1217 7.46 12.6 2.13 0.48 6.80 36.6 5.62 1222 7.46 12.6 2.04 0.66 6.80 72.0 4.91 1225 7.46 12.6 2.01 0.60 6.80 72.0 4.91 1225 7.46 12.6 2.01 0.60 6.80 72.0 4.91 120 0.60 6.80 72.0 4.91 1.00 1.00 1.91 Sample Colspan="4">Of the colspan="4">Colspan= 6.80 72.0 4.91 Sample Colspan="4">Colspan= 6.80 72.0 4.91 Sample Colspan= 6.80 72.0 4.91 Sample Colspan= 6.80 72.0 4.91 Sample Colspan= 6.80 72.0 4.91	1207	7.46				2.09		6.71		10.6
$\frac{1216}{1219} \frac{7.46}{7.46} \qquad 12.7 \qquad 2.72 \qquad 1.67 \qquad 6.76 \qquad 33.6 \qquad 6.43 \\ 1219 7.46 \qquad 12.6 \qquad 2.13 \qquad 6.78 \qquad 6.80 \qquad 36.6 \qquad 5.62 \\ 1222 7.46 \qquad 12.6 \qquad 2.04 \qquad 6.66 \qquad 6.79 \qquad 40.3 \qquad 5.70 \\ 1225 7.46 \qquad 12.6 \qquad 2.01 \qquad 6.60 \qquad 6.80 \qquad 72.0 \qquad 4.91 \\ \hline \qquad \qquad$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$\frac{1219}{1222} + .46$ $\frac{12.6}{12.2} + .46$ $\frac{12.6}{2.04} + .066 + .49 + .03 + .520$ $\frac{12.2}{2.2} + .46 + .12.6 + .04 + .046 + .12.6 + .046 + .12.6$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 1225 7.46 12.0 12.30 12.30 12.30 12.30 Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: 600 gellenx purged 12.18 SAMPLE INFORMATION Container Type Bottle Count Preservative Count Field Filtered? Analysis 40ml V2A 3 HCI N0 0.45 0.10 1 14.1 N0 0.45 0.10 Dx Dx	1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 1225 7.46 12.6 2.01 6.60 6.80 72.0 4.91 121 12.6 2.01 6.60 6.80 72.0 4.91 121 12.6 2.01 6.60 6.80 72.0 4.91 121 12.6 12.30 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: 600 gellent purged from well 3/2/18 SAMPLE INFORMATION Container Type Bottle Preservative Field Filtered? 40ml VoA 40ml No 0.45 0.10 0.45 0.10	Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: 600 gellon2 merged from well 3/2/18 SAMPLE INFORMATION Container Type Bottle Count Yoml VoA 3 Hcl No 0.45 0.10 L No 0.45 0.10 No 0.45 No 0.45 No 0.45						2.04	0.66	6.79	40.3	
Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellense narged from well 3/2/18 SAMPLE INFORMATION Ontainer Type Bottle Preservative Field Filtered? Analysis 40ml VoA 3 HCI NO 0.45 0.10 Dx Y b comber I HCI NO 0.45 0.10 Dx Dx No 0.45 0.10 Dx Dx Dx Dx Dx Dx	Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. SAMPLE INFORMATION Field Filtered? Analysis 40ml VOA 3 HCI (No) 0.45 0.10 Gx, 13TEX , MTISTE 40ml VOA 3 HCI No 0.45 0.10 Dx 1 HCI No 0.45 0.10 Dx Dx 1 No 0.45 0.10 Dx Dx	1225	7.46			2.6	5-01	0.60	6.80	72.0	4.91
Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellense narged from well 3/2/18 SAMPLE INFORMATION Ontainer Type Bottle Preservative Field Filtered? Analysis 40ml VoA 3 HCI NO 0.45 0.10 Dx Y b comber I HCI NO 0.45 0.10 Dx Dx No 0.45 0.10 Dx Dx Dx Dx Dx Dx	Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. SAMPLE INFORMATION Field Filtered? Analysis 40ml VOA 3 HCI (No) 0.45 0.10 Gx, 13TEX , MTISTE 40ml VOA 3 HCI No 0.45 0.10 Dx 1 HCI No 0.45 0.10 Dx Dx 1 No 0.45 0.10 Dx Dx										
Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellense narged from well 3/2/18 SAMPLE INFORMATION Ontainer Type Bottle Preservative Field Filtered? Analysis 40ml VoA 3 HCI NO 0.45 0.10 Dx Y b comber I HCI NO 0.45 0.10 Dx Dx No 0.45 0.10 Dx Dx Dx Dx Dx Dx	Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. Purging Comments: GOO gellen x measurements should be recorded. SAMPLE INFORMATION Field Filtered? Analysis 40ml VOA 3 HCI (No) 0.45 0.10 Gx, 13TEX , MTISTE 40ml VOA 3 HCI No 0.45 0.10 Dx 1 HCI No 0.45 0.10 Dx Dx 1 No 0.45 0.10 Dx Dx				S		to	1230			
erspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellons parged from well 3/2/18 SAMPLE INFORMATION Container Type Bottle count Preservative Field Filtered? Analysis 40ml VoA 3 Hcl No 0.45 0.10 Gx, 13TEX, MT3E 4 1 14c1 No 0.45 0.10 Dx 1 14c1 No 0.45 0.10 Dx	perspective stabilization criteria. A minimum of six measurements should be recorded. Purging Comments: GOO gellens purged from well 3/2/18 SAMPLE INFORMATION Container Type Bottle Count Preservative Field Filtered? Analysis 40ml VoA 3 Hcl No 0.45 0.10 Gx, 13TEX, MT3E 1 Hcl No 0.45 0.10 Dx Dx 1 Hcl No 0.45 0.10 Dx 1 No 0.45 0.10 Dx Dx 1 No 0.45 0.10 Dx Dx					200444	pre La	1000			
Container Type Bottle Count Preservative Field Filtered? Analysis 40ml VOA 3 HCI NO 0.45 0.10 Gx, 13TEX, MT3E 1 1 14C1 NO 0.45 0.10 Dx No 0.45 0.10 No 0.45 0.10	Container Type Bottle Count Preservative Field Filtered? Analysis 40ml VeA 3 Hcl No 0.45 0.10 Gx, 13TEX, MT3E 1 1 14c1 No 0.45 0.10 Dx 1 14c1 No 0.45 0.10 Dx 1 14c1 No 0.45 0.10 Dx 1 No 0.45 0.10 Dx Dx	perspective	stabilization c	riteria. A	minimum of	six measur	ements should	be recorded.		ygen are recorde	d within their
Home Count Hele No 0.45 0.10 Gx, 13TEX, MT3E Home Hele No 0.45 0.10 G_X , 13TEX, MT3E Here Hele No 0.45 0.10 D_X No 0.45 0.10 D_X	Count Count Interpret 40 m VOA 3 HCI NO 0.45 0.10 G_X , $13TEX$, $MTBE 1 14c1 NO 0.45 0.10 D_X No 0.45 0.10 D_X D_X No 0.45 0.10 D_X $	0.0		TION							
Homl VoA 3 Hcl (N) 0.45 0.10 Gx, 13TEX, MT3E I Lamber 1 Hcl NO 0.45 0.10 Dx NO 0.45 0.10 No 0.45 0.10	40ml VeA 3 Hcl NO 0.45 0.10 Gx, 13TEX, 19TBE 1 1 14c1 NO 0.45 0.10 Dx No 0.45 0.10 Dx Dx No 0.45 0.10 Dx		INFORMA						A		
I tamber I tamber I tamber I tamber I tamber No 0.45 0.10 Dx No 0.45 0.10	I I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	SAMPLE		Bottle	Preservative	Field	Filtered?		Analy	SIS	
No 0.45 0.10	No 0.45 0.10 No 0.45 0.10	SAMPLE Contain	er Type	Bottle Count		(N) 0.	45 0.10				
	No 0.45 0.10	SAMPLE Contain	er Type VoA	Bottle Count	HCL	(N) 0.	45 0.10 45 0.10		GX, ISTEX		
		SAMPLE Contain	er Type VoA	Bottle Count	HCL	(No) 0. (No) 0. No 0.	45 0.10 45 0.10 45 0.10		GX, ISTEX		
	Sampling Comments:	SAMPLE Contain	er Type VoA	Bottle Count	HCL	(No) 0. (No) 0. No 0. No 0.	45 0.10 45 0.10 45 0.10 45 0.10 45 0.10		GX, ISTEX		



GROUNDWATER SAMPLE COLLECTION FORM

	ayar		Jor			SAMP	LE COLLI		Well	I.D. Number:	M
	Hydrocon	me: Project # <u>:</u> 05M~	201	7-055			Field Duplic	MW02 . ate I.D	- W	Time: <u>\\50</u> Time: -	
	Monumen Well cap o Headspace Well diam	e reading:		ot measured inch		ppm		_ 🛛 Water in 1			
	Total well Depth to pr Depth to w Casing vol	roduct ater6, ume12,	N/A 81 82	ft Botto ft ft Intak ft (H₂O) Σ	e Depth	(BTOC) <u> </u>	2' Beg = 2.05	red Screen In in Purging Well gal. X 3 =_ /ft 4"=0.65 gal	: 1127 6.15 ga	_ al.	
	Pump type	G /DISPOS e 🗹 Perist e:	altic [Centrifuga	al 🗌 De isposal::	edicated Blac X Drumme	dder 🗌 Non d 🗌 Remedia	-Dedicated Bla ation System [Other		
	FIELD PA	ARAMETE	RS				·····	Odor and/or	Sheen: light	petro alor	_
	Time	Water Level (BTOC)			етр. (°С)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	рН (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)	
	<u> (24</u> <u>1132</u> <u>1135</u> <u>1138</u> <u>1141</u> <u>1141</u>	7.12 7.13 7.14 7.13 7.13 7.13 7.13	0	-16 1 1	2.3 2.6 2.7 2.7 2.7 2.9	0.67 0.68 0.68 0.68 0.68 0.68	3.24 0.72 0.56 0.55 0.55 0.55	7.22 7.16 7.14 7.15 7.15 7.13 7.13 7.11	165,2 118,9 40,0 187,5 98,9 34,0	4.00 - 4.45 2.49	
and the second se					San	mpler (a) 115	0			
	perspective s	stabilization c	riteria. I	essive measure A minimum of s	ix measur	PH, Conductiv ements should	ity and Turbidity be recorded.	y or Dissolved Oxy	gen are recorde	ed within their	
	SAMPLE	INFORMA	TION						5		
	Containe		Bottle Count	Preservative		Filtered?		Analy			
	40 ml 1 L an	VOA	3	HCI	No 0. No 0. No 0.	45 0.10 45 0.10 45 0.10 45 0.10 45 0.10 45 0.10	(y X	DX	151		
					No 0. No 0. No 0.	45 0.10 45 0.10 45 0.10					



GROUNDWATER SAMPLE COLLECTION FORM

Project Na Hydrocon Date05	me:. <u>51</u> Project # <u>:</u> Mwch	- Ke 2017 2018	114			Field Duplica	<u>Mw03- n</u> ate I.D	/]	.D. Number: <u>M</u> fime: <u>1035</u> fime:
Monumen Well cap Headspace Well diam	e reading: eter:	: 🛛 Go 🖾 Go 🖾 No 🏹 2-	ood 🗌 Ne ood 🔲 Re ot measured inch 🗌] 4-inch	ppm 6-in	eplacement Do nch Do	Water in U Surface W lor her	Monument /ater in Well 	
Total well Depth to pr Depth to w Casing vol	oduct <u> </u>	9.62 1/A 18 .44	ft Botto ft ft Intak ft (H₂O) 〉	e Depth ((,) (BTOC)gal/ft	X Not measur 2 ¹ Begi = <u>2.i≤</u> t 2″=0.16 gal/	n Purging Well gal. X 3 =_	: 1016 6145 ga	I.
Pump type Bailer type	e:	altic [] Centrifuga	al 🗌 De isposal::[dicated Bla d Drumme	dder 🗌 Non- d 🗌 Remedia	tion System] Other	NO Shelo
FIELD PA	ARAMETE	RS					Odor and/or	Sheen: light	punchy organic a
Time	Water Level (BTOC)		e Rate T min)	emp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1018	6.23			.2	0.93	4.49	6.93	164.7	1.13
1021	6.23	0.1		.6	0.94	0.78	7.40	108.5	0.55
1024	6.25			.7	0.95	0.60	7.55	86.1	0.66
1027	6.24	-		1.7	0.95	0.55	7.56	85.2	
1033	6.24			1.9	0,94	0.48	7.57	85.0	
				-	an an the Albertan and a second				
			\langle		1				
				m	sle (a	035			
perspectives	stabilization c	riteria. A	essive measure A minimum of s	ix measur	ements should	vity and Turbidity I be recorded.	or Dissolved Oxy	gen are recorded	l within their
0.0	NEODICA	TION					ter and the second s	-19 sport for the second s	a da na la da na la da na da da na da
	INFORMA			1	iltered?		Analy	sis	
		Bottle Count	Preservative	~				0.0	
SAMPLE Containe	er Type	Bottle Count 3	Preservative	No O.	45 0.10	6	-		
SAMPLE Containe	er Type √⊘A	Count		No 0.	45 0.10 45 0.10	6	in istict, i		
Contain	er Type √⊘A	Count 3	1401	No 0. No 0.	45 0.10 45 0.10 45 0.10	6	x, ISTIEL, 1		
Contain	er Type √⊘A	Count 3	1401	No 0. No 0. No 0.	45 0.10 45 0.10	6	x, ISTIEL, 1		



GROUNDWATER SAMPLE COLLECTION FORM

пушо							Well	I.D. Number: M
Project Name: Hydrocon Project # DateosMurc						M W 아님 ate I.D		_Time: <u></u> _Time:
WELL INFORMA' Monument condition Well cap condition Headspace reading Well diameter: Comments	on: 🖾 Go : 🖾 Go : 🖾 No 🖾 2-	ot measured inch	l] 4-inch	air Deeds rappm 0 6-ii	eplacement	_ 🗌 Water in 🗍 Surface V dor her	Monument Vater in Well	
PURGING INFOR Total well depth Depth to product Depth to water Casing volume Volume Conversion	19.60 N/A ,42 15.18	ft Botto ft ft Intak ft (H₂O) X	m: []] Ha e Depth (K <u>O, 16</u> gal/ft 1"	ard [] Soft (BTOC) ;gal/ft =0.04 gal/ft	X Not measur <u>2</u> Beg = <u>2,43</u> 2"=0.16 gal/	red Screen I n Purging Wel gal. X 3 =_ ft 4″=0.65 gal	nterval(s): l: <u>1051</u> g l/ft_6"= 1.47	<u>-1.60 - 19.60</u> al. gal/ft
PURGING/DISPO Pump type Peri Bailer type:	staltic [] Centrifuga				tion System [Other	
FIELD PARAMET	Purg (L/	e Rate T min)	' emp. (⁰C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	Odor and/or pH (SU) (±0.1)	Sheen: <u>l:ght</u> ORP (mV)	<u>udor, pers</u> petrol Turbidity (NTU) (± 10% or <10)
1054 4.76 1057 4.77 1100 4.77 1100 4.77 1106 4.73 1106 4.73	<i>6.1</i>	प प प प प	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·435 ·416 ·412 ·409 ·408 ·405	3.63 0.92 0.58 0.48 0.47 0.47	7.99 7.85 7.78 7.65 7.65 7.62	169.0 161.0 145.8 149.1 152.2 (51.9	1.32 0.77 0.99
		•	nple	©	115			
Stabilization achieved if perspective stabilization Purging Comments: SAMPLE INFORM	criteria. A					or Dissolved Oxy	gen are recorde	ed within their
Container Type	Bottle Count	Preservative		'iltered?		Analy	sis	
Huml VUA	3	1401	No 0.4 No 0.4 No 0.4	45 0.10 45 0.10 45 0.10 45 0.10 45 0.10 45 0.10		GX, BTE	X, MITIBIE	
Sampling Comments:								

APPENDIX B LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

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

Monday, March 12, 2018

Brian Pletcher HydroCon LLC 510 Allen St. Suite B Kelso, WA 98626

RE: JH Kelly / 2017-055

Enclosed are the results of analyses for work order <u>A8C0189</u>, which was received by the laboratory on 3/6/2018 at 11:00:00AM.

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

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

Apex Laboratories

Ausa A Zomenichini

Lisa Domenighini, Client Services Manager

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

HydroCon LLC	Project: JH Kelly	
510 Allen St. Suite B	Project Number: 2017-055	Reported:
Kelso, WA 98626	Project Manager: Brian Pletcher	03/12/18 15:59
	ANALYTICAL REPORT FOR SAMPLES	
	SAMPLE INFORMATION	

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01-W	A8C0189-01	Water	03/05/18 12:30	03/06/18 11:00
MW02-W	A8C0189-02	Water	03/05/18 11:50	03/06/18 11:00
MW03-W	A8C0189-03	Water	03/05/18 10:35	03/06/18 11:00
MW04-W	A8C0189-04	Water	03/05/18 11:15	03/06/18 11:00

Apex Laboratories

Assa A Zomenighini

Lisa Domenighini, Client Services Manager

HydroCon LLC			-	ect: JH Kelly				
510 Allen St. Suite B			5	nber: 2017-055			•	orted:
Kelso, WA 98626			Project Mana	ager: Brian Pletch	ner		03/12/1	8 15:59
		AN	ALYTICAI	L SAMPLE RI	ESULTS			
		Diesel ar	nd/or Oil Hy	drocarbons b	y NWTPH-D	x		
			Reporting	ļ				
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
MW01-W (A8C0189-01)			Matrix: Wa	ater	Batch: 803054	41		
Diesel	ND		74.8	ug/L	1	03/08/18 02:46	NWTPH-Dx	
Oil	ND		150	"	"	"	"	
Surrogate: o-Terphenyl (Surr)		R	ecovery: 81 %	Limits: 50-150 %	ó "	"	"	
MW02-W (A8C0189-02)			Matrix: Wa	ater	Batch: 803054	41		
Diesel	ND		74.8	ug/L	1	03/08/18 03:07	NWTPH-Dx	
Oil	ND		150	"	"	"	"	
Surrogate: o-Terphenyl (Surr)		R	ecovery: 82 %	Limits: 50-150 %	ó "	"	"	
MW03-W (A8C0189-03)			Matrix: Wa	ater	Batch: 803054	41		
Diesel	ND		74.8	ug/L	1	03/08/18 03:28	NWTPH-Dx	
Oil	ND		150	"	"	"	"	
Surrogate: o-Terphenyl (Surr)		R	ecovery: 74 %	Limits: 50-150 %	ó "	"	"	
MW04-W (A8C0189-04)			Matrix: Wa	ater	Batch: 803054	41		
Diesel	ND		74.8	ug/L	1	03/08/18 03:49	NWTPH-Dx	
Oil	ND		150	"	"	"	"	
Surrogate: o-Terphenyl (Surr)		R	ecovery: 78 %	Limits: 50-150 %	ó "	"	"	

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Lisa Domenighini, Client Services Manager

HydroCon LLC				ject: JH Kelly				
510 Allen St. Suite B			Project Nun	nber: 2017-055			Repor	ted:
Kelso, WA 98626	Project Manager: Brian Pletcher					03/12/18 15:59		
		ANA	LYTICAI	L SAMPLE RE	SULTS			
Gasc	oline Rang	e Hydrocar	bons (Ben	zene through I	Naphthalen	e) by NWTPH-G	x	
			Reporting	5				
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
MW01-W (A8C0189-01)			Matrix: Wa	ater B	atch: 80305	18		
Gasoline Range Organics	ND		100	ug/L	1	03/07/18 12:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	overy: 106 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			107 %	Limits: 50-150 %	"	"	"	
MW02-W (A8C0189-02)			Matrix: Wa	ater B	atch: 80305	18		
Gasoline Range Organics	ND		100	ug/L	1	03/07/18 13:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	overy: 109 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			105 %	Limits: 50-150 %	"	"	"	
MW03-W (A8C0189-03)			Matrix: Wa	ater B	atch: 80305	18		
Gasoline Range Organics	ND		100	ug/L	1	03/07/18 13:52	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Rec	overy: 112 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			108 %	Limits: 50-150 %	"	"	"	
MW04-W (A8C0189-04)			Matrix: Wa	ater B	atch: 80305	18		
Gasoline Range Organics	ND		100	ug/L	1	03/07/18 14:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	overy: 110 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			108 %	Limits: 50-150 %	"	"	"	

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Lisa Domenighini, Client Services Manager

						500	-710-0555 Fax		
HydroCon LLC			Pro	ject: JH Kelly					
510 Allen St. Suite B			Project Nun	nber: 2017-055			Rep	orted:	
Kelso, WA 98626			Project Man	ager: Brian Pletcher	r		03/12/18 15:59		
		ANA	ALYTICAI	L SAMPLE RES	SULTS				
		RBDM	Compound	s (BTEX+) by E	PA 8260C				
			Reporting	5					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes	
/W01-W (A8C0189-01)			Matrix: Wa	ater B	atch: 80305	18			
Benzene	ND		0.200	ug/L	1	03/07/18 12:55	EPA 8260C		
Ethylbenzene	ND		0.500	"	"	"	"		
Methyl tert-butyl ether (MTBE)	ND		1.00	"	"	"			
Toluene	ND		1.00	"	"	"			
Xylenes, total	ND		1.50	"	"	"	"		
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 103 %	Limits: 80-120 %	"	"	"		
Toluene-d8 (Surr)			103 %	Limits: 80-120 %	"	"	"		
4-Bromofluorobenzene (Sur	<i>r)</i>		100 %	Limits: 80-120 %	"	"	"		
/W02-W (A8C0189-02)			Matrix: Wa	ater B	atch: 80305	18			
Benzene	ND		0.200	ug/L	1	03/07/18 13:23	EPA 8260C		
Ethylbenzene	ND		0.500	"		"	"		
Methyl tert-butyl ether (MTBE)	ND		1.00	"	"	"			
Toluene	ND		1.00		"	"			
Xylenes, total	ND		1.50	"	"	"	"		
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 102 %	Limits: 80-120 %	"	"	"		
Toluene-d8 (Surr)			101 %	Limits: 80-120 %	"	"			
4-Bromofluorobenzene (Sur	r)		99 %	Limits: 80-120 %	"		"		
IW03-W (A8C0189-03)			Matrix: Wa	ater B	atch: 80305	18			
Benzene	ND		0.200	ug/L	1	03/07/18 13:52	EPA 8260C		
Ethylbenzene	ND		0.500	"	"	"	"		
Methyl tert-butyl ether (MTBE)	ND		1.00		"	"			
Toluene	ND		1.00		"	"			
Xylenes, total	ND		1.50	"	"	"	"		
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 103 %	Limits: 80-120 %	"	"	"		

4-Bromofluorobenzene (Surr) 97% Limits: 80-120 % .. MW04-W (A8C0189-04) Matrix: Water Batch: 8030518 Benzene ND 0.200 03/07/18 14:20 EPA 8260C ug/L ---1 " Ethylbenzene ND 0.500 " " ---" " " Methyl tert-butyl ether (MTBE) ND ----1.00 Toluene ND 1.00 " " " ---" " " ND 1.50 ... Xylenes, total ---.. Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % " " .. Toluene-d8 (Surr) 102~%Limits: 80-120 %

Limits: 80-120 %

"

102 %

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Toluene-d8 (Surr)

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HydroCon LLC	Project: JH Kelly					
510 Allen St. Suite B	510 Allen St. Suite B Project Number: 2017-055					
Kelso, WA 98626Project Manager: Brian Pletcher03/						
	ANALYTICAL SAMPLE RESULTS					
	RBDM Compounds (BTEX+) by EPA 8260C					
	Reporting					

Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
MW04-W (A8C0189-04)			Matrix: Wa	iter	Batch: 803051	18		
Surrogate: 4-Bromofluorobenzene (Surr)		Reco	wery: 101 %	Limits: 80-120 %	6 1	"	EPA 8260C	

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Lisa Domenighini, Client Services Manager

Apex Labs	5								12232 S Tigard, 503-718 503-718	OR 97 8-2323	Phone	ce
HydroCon LLC				Proj	ect: JH Ke	lly						
510 Allen St. Suite B			Pr	oject Nun	nber: 2017-0	55					Report	ed:
Kelso, WA 98626			Pro	oject Mana	ager: Brian l	Pletcher					03/12/18	15:59
		Q	UALITY C	ONTRO	DL (QC) S	AMPLE R	ESULTS	6				
			Diesel and/	or Oil H	ydrocarbo	ons by NW1	FPH-Dx					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030541 - EPA 351	0C (Fuels/A	cid Ext.)					Wat	ter				
Blank (8030541-BLK1)]	Prepared: 03	/07/18 13:06	Analyzed:	03/07/18 23	3:36			
NWTPH-Dx												
Diesel	ND		72.7	ug/L	1							
Oil	ND		145	"	"							
Surr: o-Terphenyl (Surr)		Re	ecovery: 97 %	Limits:	50-150 %	Dili	ution: 1x					
LCS (8030541-BS1)]	Prepared: 03	/07/18 13:06	Analyzed:	03/07/18 23	3:57			
NWTPH-Dx												
Diesel	425		80.0	ug/L	1	500		85	52-120%			
Surr: o-Terphenyl (Surr)		Re	ecovery: 99 %	Limits:	50-150 %	Dilı	ution: 1x					
LCS Dup (8030541-BSD1)				1	Prepared: 03	/07/18 13:06	Analyzed:	03/08/18 00):18			Q-19
NWTPH-Dx												
Diesel	408		80.0	ug/L	1	500		82	52-120%	4	20%	
Surr: o-Terphenyl (Surr)		Rec	covery: 101 %	Limits:	50-150 %	Dilı	ution: 1x					

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Lisa Domenighini, Client Services Manager

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HydroCon LLC	Project: JH Kelly	
510 Allen St. Suite B	Project Number: 2017-055	Reported:
Kelso, WA 98626	Project Manager: Brian Pletcher	03/12/18 15:59

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx											
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030518 - EPA 50308	3						Wat	er				
Blank (8030518-BLK1)				F	Prepared: 03	/07/18 09:01	Analyzed:	03/07/18 1	1:30			
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 109 %	Limits:	50-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	·	50-150 %		"					
LCS (8030518-BS2)				F	Prepared: 03	/07/18 09:01	Analyzed:	03/07/18 0	9:57			
NWTPH-Gx (MS)												
Gasoline Range Organics	509		100	ug/L	1	500		102	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 108 %	Limits:	50-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			110 %		50-150 %		"					

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Lisa Domenighini, Client Services Manager

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HydroCon LLC	Project: JH Kelly	
510 Allen St. Suite B	Project Number: 2017-055	Reported:
Kelso, WA 98626	Project Manager: Brian Pletcher	03/12/18 15:59

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030518 - EPA 5030B							Wat	ter				
Blank (8030518-BLK1)				Prepared: 03/07/18 09:01 Analyzed				: 03/07/18 11:30				
EPA 8260C												
Benzene	ND		0.200	ug/L	1							
Ethylbenzene	ND		0.500	"	"							
Methyl tert-butyl ether (MTBE)	ND		1.00	"	"							
Toluene	ND		1.00	"	"							
Xylenes, total	ND		1.50	"	"							
Surr: 1,4-Difluorobenzene (Surr)		Rec	overy: 103 %	5 Limits: 80-120 % Dila		ution: 1x						
Toluene-d8 (Surr)			103 %	8	0-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	8	0-120 %		"					
LCS (8030518-BS1)				Prepared: 03/07/18 09:01		Analyzed: 03/07/18 09:29						
EPA 8260C												
Benzene	21.4		0.200	ug/L	1	20.0		107	80-120%			
Ethylbenzene	20.8		0.500	"	"	"		104	"			
Methyl tert-butyl ether (MTBE)	21.7		1.00	"	"	"		109	"			
Toluene	20.4		1.00	"	"	"		102	"			
Xylenes, total	62.8		1.50	"	"	60.0		105	"			
Surr: 1,4-Difluorobenzene (Surr)		Rec	overy: 102 %	Limits: 80-120 % Di		ution: 1x						
Toluene-d8 (Surr)			101 %	8	0-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	8	0-120 %		"					

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Lisa Domenighini, Client Services Manager

HydroCon LLC			Project: J	•						
510 Allen St. Suite B	en St. Suite B Project Number: 2017-055									
Kelso, WA 98626		Project Manager: Brian Pletcher								
SAMPLE PREPARATION INFORMATION										
Diesel and/or Oil Hydrocarbons by NWTPH-Dx										
Prep: EPA 3510C (Fuels/Acid	l Ext.)			Sample	Default	RL Prep			
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor			
Batch: 8030541										
A8C0189-01	Water	NWTPH-Dx	03/05/18 12:30	03/07/18 13:06	1070mL/2mL	1000mL/2mL	0.94			
A8C0189-02	Water	NWTPH-Dx	03/05/18 11:50	03/07/18 13:06	1070mL/2mL	1000mL/2mL	0.94			
A8C0189-03	Water	NWTPH-Dx	03/05/18 10:35	03/07/18 13:06	1070mL/2mL	1000mL/2mL	0.94			
A8C0189-04	Water	NWTPH-Dx	03/05/18 11:15	03/07/18 13:06	1070mL/2mL	1000mL/2mL	0.94			
	C	Gasoline Range Hydi	ocarbons (Benzene	e through Naphthalen	e) by NWTPH-Gx					
Prep: EPA 5030B					Sample	Default	RL Prep			
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor			
Batch: 8030518										
A8C0189-01	Water	NWTPH-Gx (MS)	03/05/18 12:30	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-02	Water	NWTPH-Gx (MS)	03/05/18 11:50	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-03	Water	NWTPH-Gx (MS)	03/05/18 10:35	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-04	Water	NWTPH-Gx (MS)	03/05/18 11:15	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
		RB	DM Compounds (B ⁻	TEX+) by EPA 8260C						
Prep: EPA 5030B					Sample	Default	RL Prep			
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor			
Batch: 8030518										
A8C0189-01	Water	EPA 8260C	03/05/18 12:30	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-02	Water	EPA 8260C	03/05/18 11:50	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-03	Water	EPA 8260C	03/05/18 10:35	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			
A8C0189-04	Water	EPA 8260C	03/05/18 11:15	03/07/18 10:57	5mL/5mL	5mL/5mL	1.00			

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Lisa Domenighini, Client Services Manager

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

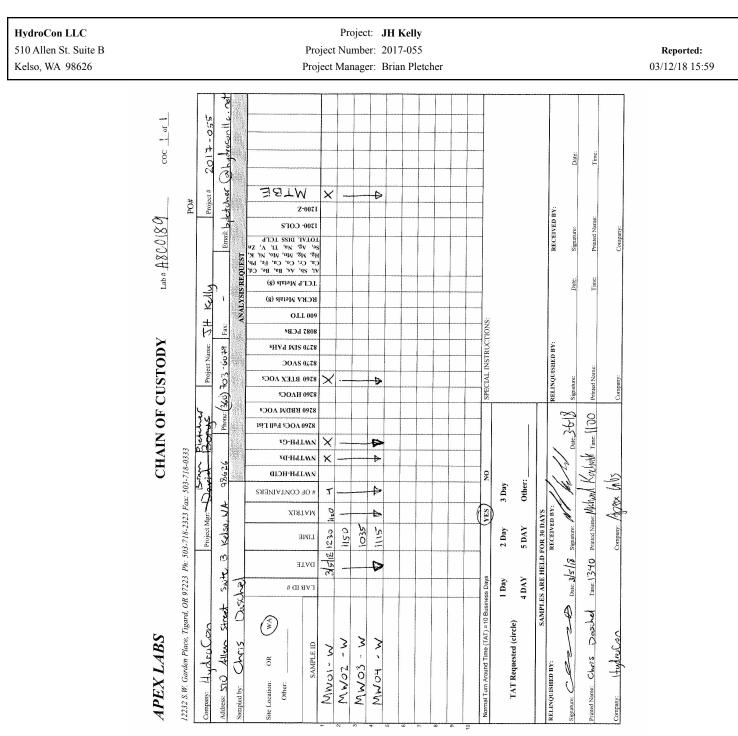
HydroCon LLC 510 Allen St. Suite B		Project: JH Kelly Project Number: 2017-055	Reported:
	A 98626	Project Manager: Brian Pletcher	03/12/18 15:59
		Notes and Definitions	
Dualifiers	<u></u>		
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place analysis.	of Matrix Spike/Duplicate samples due to limited sample	amount available for
Notes ar	nd Conventions:		
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the reporting lin	nit	
NR	Not Reported		
dry	Sample results reported on a dry weight basis. Results	listed as 'wet' or without 'dry'designation are not dry weigh	t corrected.
RPD	Relative Percent Difference		
MDL	If MDL is not listed, data has been evaluated to the Me	thod Reporting Limit only.	
WMSC	Water Miscible Solvent Correction has been applied to	Results and MRLs for volatiles soil samples per EPA 8000	С.
Batch QC	analyses were performed with the appropriate Batch Q in order to meet or exceed method and regulatory requ QC results are available upon request. In cases where	results for Batch QC derived from client samples included C (including Sample Duplicates, Matrix Spikes and/or Matri rements. Any exceptions to this will be qualified in this re- here is insufficient sample provided for Sample Duplicates analyzed to demonstrate accuracy and precision of the extra	rix Spike Duplicates) port. Complete Batch and/or Matrix
Blank Policy	chemistry and HCID analyses which are assessed only	to a level equal to ½ the method reporting limit (MRL), exc to the MRL. Sample results flagged with a B or B-02 quali and in the blank for inorganic analyses or less than five times	fier are potentially
	For accurate comparison of volatile results to the level and soil sample results should be divided by 1/50 of the	found in the blank; water sample results should be divided e sample dilution to account for the sample prep factor.	by the dilution factor,
	Results qualified as reported below the MRL may inclu B-02 qualifications are not applied to J qualified results	de a potential high bias if associated with a B or B-02 qual reported below the MRL.	ified blank. B and
	QC results are not applicable. For example, % Recover Spikes, etc.	ies for Blanks and Duplicates, % RPD for Blanks, Blank S	pikes and Matrix
***	1 1 9 1	e and Sample Duplicate results when the %RPD is not avai able result for this analyte, while the other is Non Detect (N	

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Lisa Domenighini, Client Services Manager

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



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Page 12 of 13

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HydroCon LLC 510 Allen St. Suite B Kelso, WA 98626	Project: JH Kelly Project Number: 2017-055 Project Manager: Brian Pletcher	Reported: 03/12/18 15:59				
	APEX LABS COOLER RECEIPT FORM					
	Client: <u>Hydro(on</u> Element WO#: A8 <u>C0189</u> Project/Project #: <u>JH Kelly /2017-055</u>					
	Delivery info: Date/Time Received: 3-6-18 @ 1/00 By:M					
	Containers/Volumes Received Appropriate for Analysis? Yes 🗸 No Comments:					
	Do VOA Vials have Visible Headspace? Yes No NA					
	Labeled by: Witness: Cooler Inspected by: Me See Project Contact Form: Y					

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