3R-1040

W. Lybrook Well Pad #6

Work Plan Approval/General Correspondence

Date 2016



Smith, Cory, EMNRD

Smith, Cory, EMNRD
Monday, August 15, 2016 8:59 AM
'Watson, Debbie'; Diemer, Katherina
Smith, Lucas; Decker, Lisa; Felix, Andrea; VanDenBerg, Randy; Riley, Heather; Foeller,
Christopher; Fields, Vanessa, EMNRD; Powell, Brandon, EMNRD; Perrin, Charlie, EMNRD
RE: Remediation Plan W Lybrook Unit 707H Well Pad
Remediation Plan 707H 080816.pdf

Good morning Debbie,

The OCD has approved the Remediation Plan for the W. Lybrook Unit 707H well pad submitted on August 9, 2016, with the following condition of approval.

The Recommend Remediation Action Levels (RRAL) as described by the New Mexico Oil Conservation Division (OCD) Guidelines for Remediation of Leaks and Spills, and Release (August 1993) is to be used as a guide on all federal, state and fee lands when remediating contaminants resulting from leaks, spills and releases of oilfield wastes or products. The **Total** Petroleum Hydrocarbon (TPH) recommend remediation levels are to include DRO, GRO and the MRO/ORO ranges of hydrocarbons. The OCD also requires that corrective actions be taken for leaks, spills or releases of any material which has a reasonable probability to injure or be detrimental to public health, fresh waters, animal or plant life, or property or unreasonably interfere with the public welfare or use of the property.

With that in mind additional remediation may be required based upon the results of the conformation sampling.

If you have any additional questions please give me a call.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Watson, Debbie [mailto:Deborah.Watson@wpxenergy.com]
Sent: Tuesday, August 09, 2016 3:49 PM
To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Diemer, Katherina; rafields@blm.gov; Joe, Maureen
Cc: Smith, Lucas; Decker, Lisa; Felix, Andrea; VanDenBerg, Randy; Riley, Heather; Foeller, Christopher
Subject: Remediation Plan W Lybrook Unit 707H Well Pad

Good Afternoon,

Attached is the Remediation Plan for the W Lybrook Unit #707H Well Pad.

Please contact me with any questions or for additional information. Thank you.

Have a great evening,

OIL CONS. DIV DIST. 3 AUG 9 2016

Remediation Plan West Lybrook Unit #707H Well Pad W Lybrook Unit #707H, W Lybrook Unit #708H, W Lybrook Unit #709H, W Lybrook Unit #747H, W Lybrook Unit #748H, and W Lybrook Unit #749 Unit Letter P, Section 12, Township 23N, Range 9W San Juan County, New Mexico

This remediation plan is being submitted to Bureau of Land Management Farmington Field Office (BLM-FFO) and New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division (NMOCD) in response to a fire which occurred at the W Lybrook Unit #707H Well Pad. The proposed remediation activities are presented below.

Incident Description

On July 11, 2016, there was a fire at the W Lybrook Unit #707H Well Pad. The fire impacted 36 temporary storage tanks containing produced water and crude oil; most of the fluids contained in the impacted tanks were consumed by the fire. The government authorities in charge of the fire-fighting activities determined that the fire should be allowed to burn itself out, and the fire was extinguished on Thursday, July 14, 2016. The cause of the fire is currently under investigation. All fluids remained on the well pad.

Site Information

The W Lybrook Unit #707H Well Pad is located on Indian Allotted Lands along County Road 7890 near Nageezi, San Juan County, New Mexico. Wells also located on the W Lybrook Unit #707H Well Pad include: W Lybrook Unit #708H, W Lybrook Unit #709H, W Lybrook Unit #747H, W Lybrook Unit #748H, and W Lybrook Unit #749H. The legal description for the site is: Unit Letter P, Section 12, Township 23N, Range 9W, with GPS coordinates N36.236637 and W107.732892. The ignition point is approximated with GPS coordinates N36.236505, W107.732568.

A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

Site Ranking and RRAL

In accordance with New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 30. Based on a ranking score of 30, Recommended Remediation Action Levels (RRAL) for impacted soils at the site are as follows: 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO) and diesel range organics (DRO).

Depth to groundwater at the site is estimated to be less than 50 feet below ground surface (bgs) based on elevation differential between the site and Kimbeto Wash.

A review was completed of the New Mexico Office of the State Engineer Online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 feet radius of the location.

Kimbeto Wash is located approximately 445 feet NNW from the estimated point of ignition.

WPX Energy Production, LLC Remediation Plan-W Lybrook Unit #707H Well Pad August 8, 2016

Remedial Actions

Cleanup activities are being managed by Allied International Emergency, an emergency response and remediation service company. Cleanup activities at the site include:

- All tanks and equipment are being power-washed and cleaned prior to removal from the location. Washing activities are being limited to fire impacted areas on location, fluids are being collected. No fluid migration is expected outside of fire impacted area. No fluids will flow off location.
- Damaged and cleaned equipment is being dismantled and collected by the property owner or transported to a recycling/disposal facility.
- Impacted and residual fluids (waste crude oil and produced water) and tank washout fluid are being trucked off location to the disposal facility.
- Fire impacted soils are being mechanically excavated and removed from the location for disposal. It is estimated that approximately 4,500 cubic yards of impacted soil will be excavated from the location.
- Following removal of impacted soils, confirmation samples will be collected from within the fire
 impacted areas. If any sample exceeds the NMOCD RRAL for benzene, total BTEX and total TPH,
 further excavation will continue within the impacted area until soil sample analytical results are
 reported below the NMOCD RRAL.
- On July 27, 2016, the area beneath the meter skids (located within Area 1) was remediated. The meter skids were reset on July 28, 2016, following collection of one confirmation soil sample from the area documenting that RRAL standards were met.

Disposal Location

Tank washout and residual fluids (waste crude oil and produced water) are being collected and disposed of at Envirotech, Inc. Soil Remediation Facility, Permit #NM 01-0011, located at #43 Road 7175, south of Bloomfield, New Mexico.

Impacted soils are being disposed of at Envirotech, Inc. Soil Remediation Facility, Permit #NM 01-0011 located at #43 Road 7175, south of Bloomfield, New Mexico.

Non-hazardous waste is being disposed of at WCA Bondad Landfill, located at 1500 CR 318, Bondad, Colorado.

Soil Sampling

On July 28, 2016, one composite sample was collected from beneath the meter skids following remediation. Mr. Cory Smith, NMOCD, was onsite for collection of the sample (072816-1). The sample was submitted to Hall Environmental Analysis Laboratory for analysis of volatile organic compounds (VOC) per U.S. Environmental Protection Agency (USEPA) Method 8260B, TPH (as motor oil/lube oil range organics (MRO)/DRO/GRO) per USEPA Method 8015, and chlorides per USEPA Method 300.0.

WPX Energy Production, LLC Remediation Plan-W Lybrook Unit #707H Well Pad August 8, 2016

On August 2, 2016, WPX met with Ms. Katherina Diemer, BLM-FFO, Ms. Anita Ahill, Federal Indian Minerals Office (FIMO), and Mr. Cory Smith, NMOCD, at the site to discuss cleanup activities and the proposed confirmation sampling plan. All parties agreed to the following sampling plan during the site meeting.

Once impacted soils have been remediated at the site, WPX will schedule confirmation sampling. WPX anticipates being able to provide notification at least 24-hours in advance of the confirmation sampling event to BLM, FIMO, and NMOCD. Confirmation sampling will consist of the collection of the following:

- Collection of 12 five-point composite samples collected from within the fire impacted area. Each sampling area (Areas 1 through 12) will measure approximately 100 to 105 feet in length by 80 feet wide. A sampling grid will be in place prior to sample collection. Samples will be analyzed for VOC per USEPA Method 8260B and TPH (as MRO/DRO/GRO) per USEPA Method 8015.
- Collection of three composite samples for analysis of RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) per USEPA SW 846. These samples will be collected from areas where temporary storage tanks, separators, piping, and pumping units were located. Metals-1 will be collected from within Areas 1 and 6, Metals-2 will be collected from within Areas 2 through 5, and Metals-3 will be collected from within Areas 9 and 11.
- Collection of one composite sample for analysis of chlorides per USEPA Method 300.0. This
 sample will be collected from within the produced water tank area. The produced water sample
 (PW-1) will be collected from within Area 4.
- One additional sample will be collected off-pad within the heat impacted area located northeast of the pad (Area 13). This sample will be analyzed for BTEX per USEPA Method 8015 and TPH (as MRO/DRO/GRO) per USEPA Method 8015.

Soil samples composited for laboratory analysis will be placed into laboratory supplied glassware, labeled, and shipped on ice to Hall Environmental Analysis Laboratory, Albuquerque, New Mexico. Proposed sample locations are identified on Figure 3.

Laboratory Analytical Results

On July 28, 2016, one confirmation soil sample was collected from within the impacted area below the meter skids (within Area 1). Analytical results for confirmation soil sample 072816-1 were reported as non-detect for VOC and TPH. The chloride concentration was reported at 45 mg/kg. Based on laboratory analytical results, no further sampling or remediation is planned beneath the meter skids. A copy of the analytical laboratory report is attached.

Reclamation

As part of final site reclamation, an estimated 4,500 cubic yards of soil for backfill will be hauled from Envirotech located South of Bloomfield, NM to the W Lybrook Unit #707H Well Pad. Soils hauled to the location for backfill will consist of clean virgin soils (not land-farmed, same soil type, texture, color, weed-free).

WPX Energy Production, LLC Remediation Plan-W Lybrook Unit #707H Well Pad August 8, 2016

In addition, WPX will seed the off pad fire/heat impacted areas with native seed in order to revegetate in compliance with BLM requirements. This includes raking and tilling (as needed) and dispersing of an approved BLM seed mix. The reseeded areas will be monitored approximately 30 days later to determine if additional actions are needed. In the event of noxious weeds, a roustabout crew will remove weeds manually and the area will be seeded again.

Upon completion of activities, a final report will be prepared and submitted to BLM-FFO and NMOCD.

Attachments:

Figure 1. Topographic Map Figure 2. Aerial Site Map Figure 3. Proposed Soil Sample Location Map Hall Environmental Laboratory Report (Order # 1607F33)



Figure 1. Topographic Map W Lybrook Unit #707H Well Pad Remediation Plan Section 12, Township 23N, Range 09W N36.236637, W107.732892 San Juan County, NM Scale 1:24,000



Figure 2. Aerial Site Map W Lybrook Unit #707H Well Pad Remediation Plan Section 12, Township 23N, Range 09W N36.236637, W107.732892 San Juan County, NM



Figure 3. Proposed Soil Sample Location Map Lybrook Unit #707H Well Pad Remediation Plan Section 12, Township 23N, Range 09W N36.236637, W107.732892 San Juan County, NM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 09, 2016 Debbie Watson WPX Energy 721 S Main Ave Aztec, NM 87410 TEL: (505) 333-1880 FAX

OrderNo.: 1607F33

RE: WLU 6 Well Pad

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/29/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1607F33 Date Reported: 8/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	WPX Energy		Client Sample ID: 072816-1 (meters)
Project:	WLU 6 Well Pad		Collection Date: 7/28/2016 9:56:00 AM
Lab ID:	1607F33-001	Matrix: SOIL	Received Date: 7/29/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	45	30	mg/Kg	20	8/2/2016 7:55:27 PM	26746
EPA METHOD 8015M/D: DIESEL RAM	GE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/2/2016 10:12:58 PM	26715
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/2/2016 10:12:58 PM	26715
Surr: DNOP	93.6	70-130	%Rec	1	8/2/2016 10:12:58 PM	26715
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	ma/Ka	1	8/1/2016 10:24:08 AM	26693
Surr: BFB	94.9	49.4-163	%Rec	1	8/1/2016 10:24:08 AM	26693
EPA METHOD 8260B. VOLATILES					Analysi	DJE
Benzene	ND	0.023	ma/Ka	1	8/6/2016 4·20·29 AM	26693
Toluene	ND	0.025	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Methyl tert-butyl ether (MTBE)	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1.2.4-Trimethylbenzene	ND	0.046	ma/Ka	1	8/6/2016 4:20:29 AM	26693
1.3.5-Trimethylbenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2-Dichloroethane (EDC)	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2-Dibromoethane (EDB)	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Naphthalene	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1-Methylnaphthalene	ND	0.18	mg/Kg	1	8/6/2016 4:20:29 AM	26693
2-Methylnaphthalene	ND	0.18	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Acetone	ND	0.69	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Bromobenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Bromodichloromethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Bromoform	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Bromomethane	ND	0.14	mg/Kg	1	8/6/2016 4:20:29 AM	26693
2-Butanone	ND	0.46	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Carbon disulfide	ND	0.46	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Carbon tetrachloride	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Chlorobenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Chloroethane	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Chloroform	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Chloromethane	ND	0.14	mg/Kg	1	8/6/2016 4:20:29 AM	26693
2-Chlorotoluene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
4-Chlorotoluene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
cis-1,2-DCE	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
cis-1,3-Dichloropropene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2-Dibromo-3-chloropropane	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Dibromochloromethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level.

Qualifiers:

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607F33

Date Reported: 8/9/2016

CLIENT: WPX Energy Client Sample ID: 072816-1 (meters) **Project:** WLU 6 Well Pad Collection Date: 7/28/2016 9:56:00 AM Matrix: SOIL Received Date: 7/29/2016 7:30:00 AM Lab ID: 1607F33-001 Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8260B: VOLATILES** Analyst: DJF Dibromomethane ND 0.046 mg/Kg 8/6/2016 4:20:29 AM 26693 1 1,2-Dichlorobenzene ND 0.046 8/6/2016 4:20:29 AM 26693 mg/Kg 1 1,3-Dichlorobenzene ND 0.046 mg/Kg 1 8/6/2016 4:20:29 AM 26693 1,4-Dichlorobenzene ND 0.046 mg/Kg 1 8/6/2016 4:20:29 AM 26693 Dichlorodifluoromethane ND 0.046 mg/Kg 1 8/6/2016 4:20:29 AM 26693 ND 8/6/2016 4:20:29 AM 26693 1,1-Dichloroethane 0.046 mg/Kg 1 ND 8/6/2016 4:20:29 AM 26693 1,1-Dichloroethene 0.046 mg/Kg 1 ND 8/6/2016 4:20:29 AM 26693 1,2-Dichloropropane 0.046 mg/Kg 1 8/6/2016 4:20:29 AM 26693 1,3-Dichloropropane ND 0.046 mg/Kg 1 ND 0.092 8/6/2016 4:20:29 AM 26693 2,2-Dichloropropane mg/Kg 1 ND 0.092 8/6/2016 4:20:29 AM 26693 1,1-Dichloropropene mg/Kg 1 8/6/2016 4:20:29 AM 26693 Hexachlorobutadiene ND 0.092 mg/Kg 1 2-Hexanone ND 8/6/2016 4:20:29 AM 26693 0.46 mg/Kg 1 ND 0.046 8/6/2016 4:20:29 AM 26693 Isopropylbenzene mg/Kg 1 26693 4-Isopropyltoluene ND 0.046 ma/Ka 8/6/2016 4:20:29 AM 1

, loop op judidente	110	01010				
4-Methyl-2-pentanone	ND	0.46	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Methylene chloride	ND	0.14	mg/Kg	1	8/6/2016 4:20:29 AM	26693
n-Butylbenzene	ND	0.14	mg/Kg	1	8/6/2016 4:20:29 AM	26693
n-Propylbenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
sec-Butylbenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Styrene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
tert-Butylbenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,1,1,2-Tetrachloroethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,1,2,2-Tetrachloroethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Tetrachloroethene (PCE)	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
trans-1,2-DCE	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
trans-1,3-Dichloropropene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2,3-Trichlorobenzene	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2,4-Trichlorobenzene	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,1,1-Trichloroethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,1,2-Trichloroethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Trichloroethene (TCE)	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Trichlorofluoromethane	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
1,2,3-Trichloropropane	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Vinyl chloride	ND	0.046	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Xylenes, Total	ND	0.092	mg/Kg	1	8/6/2016 4:20:29 AM	26693
Surr: Dibromofluoromethane	95.0	70-130	%Rec	1	8/6/2016 4:20:29 AM	26693
Surr: 1,2-Dichloroethane-d4	90.3	70-130	%Rec	1	8/6/2016 4:20:29 AM	26693
Surr: Toluene-d8	107	70-130	%Rec	1	8/6/2016 4:20:29 AM	26693

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall En	vironmental Analys	sis Laborat	tory, Ir	Lab Order 1607F33 nc. Date Reported: 8/9/2016						
CLIENT:	WPX Energy			С	lient Samp	le ID: 07	2816-1 (meters)			
Project:	WLU 6 Well Pad				Collection	Date: 7/2	28/2016 9:56:00 AM			
Lab ID:	1607F33-001	Matrix: S	SOIL	Received Date: 7/29/2016 7:30:00 AM						
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8260B: VOLATILES						Analys	t: DJF		
Surr: 4	-Bromofluorobenzene	115	70-130		%Rec	1	8/6/2016 4:20:29 AM	26693		

Analytical Report

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Client:	WPX	Energy			-					
Project:	WLU	6 Well Pad								
Sample ID	MB-26746	SampType: ME	ILK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 26	746	F	RunNo: 3	6161				
Prep Date:	8/2/2016	Analysis Date: 8/	2/2016	S	SeqNo: 1	119923	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-26746	SampType: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 26	746	F	RunNo: 3	6161				
Prep Date:	8/2/2016	Analysis Date: 8/	2/2016	S	SeqNo: 1	119924	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	dia di second	14 1.5	15.00	0	90.1	90	110			
Sample ID	MB-26746	SampType: ME	LK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 26	746	F	RunNo: 3	6168				
Prep Date:	8/2/2016	Analysis Date: 8/	2/2016	S	SeqNo: 1	120448	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-26746	SampType: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 26	746	F	RunNo: 3	6168				
Prep Date:	8/2/2016	Analysis Date: 8/	2/2016	S	SeqNo: 1	120449	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	91.6	90	110			

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607F33

09-Aug-16

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

Value above quantitation range E

- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL
- W Sample container temperature is out of limit as specified

Page 4 of 10

Reporting Detection Limit

WO#: 1607F33

09-Aug-16

Client: WPX Energy **Project:** WLU 6 Well Pad Sample ID LCS-26715 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 26715 RunNo: 36150 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SeqNo: 1120060 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 41 10 50.00 0 82.4 62.6 124 Surr: DNOP 5.000 5.1 102 70 130 Sample ID LCS-26722 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 26722 RunNo: 36150 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SeqNo: 1120062 Units: %Rec PQL Analyte Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Surr: DNOP 5.0 5 000 100 70 130 Sample ID MB-26715 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 26715 RunNo: 36150 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SegNo: 1120063 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 110 70 130 Sample ID MB-26722 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 26722 RunNo: 36150 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SeqNo: 1120065 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit %RPD PQL HighLimit RPDLimit Qual Surr: DNOP 9.1 10.00 91.2 70 130 Sample ID 1607F33-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: 072816-1 (meters) Batch ID: 26715 RunNo: 36151 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SeqNo: 1120659 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 57 93 46.73 8 4 9 3 105 33.9 141 Surr: DNOP 46 4 673 97 8 70 130 Sample ID 1607F33-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: 072816-1 (meters) Batch ID: 26715 RunNo: 36151 Prep Date: 8/1/2016 Analysis Date: 8/2/2016 SeqNo: 1120660 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDI** imit Qual **Diesel Range Organics (DRO)** 50 9.5 47.30 8.493 87.1 33.9 141 14 4 20

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 5 of 10

- Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607F33

09-Aug-16

Client:	WPX Energy	
Project:	WLU 6 Well Pad	

Sample ID	1607F33-001AMSD	SampTyp	e: M	SD	Test	tCode: I	EPA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	072816-1 (meters)	Batch II): 26	715	R	RunNo:	36151				
Prep Date:	8/1/2016	Analysis Date	e: 8	/2/2016	S	eqNo:	1120660	Units: mg/M	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	C LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.2		4.730		88.4	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Sample container temperature is out of limit as specified W

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Reporting Detection Limit RL

WO#: 1607F33

09-Aug-16

Client: WPX E Project: WLU 6	nergy Well Pad				1					
Sample ID MB-26693	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	D: 26	693	93 RunNo: 36141						
Prep Date: 7/29/2016	Analysis Da	te: 8/	1/2016	S	SeqNo: 1	119291	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.5	49.4	163			
Sample ID LCS-26693	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 26	693	F	RunNo: 3	6141				
Prep Date: 7/29/2016	Analysis Da	te: 8/	1/2016	S	SeqNo: 1	119292	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	1000		1000		105	49.4	163			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client: \ Project: \

WPX Energy WLU 6 Well Pad

Sample ID mb-26693	SampT	Гуре: М	BLK	TestCode: EPA Method 8260B: Volatiles							
Client ID: PBS	Batc	h ID: 26	693	F	RunNo: 3	6260					
Prep Date: 7/29/2016	Analysis E	Date: 8	/6/2016	\$	SeqNo: 1	124080	Units: mg/M	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025			-						
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Methyl tert-butyl ether (MTBE)	ND	0.050									
1,2,4-Trimethylbenzene	ND	0.050									
1,3,5-Trimethylbenzene	ND	0.050									
1,2-Dichloroethane (EDC)	ND	0.050									
1,2-Dibromoethane (EDB)	ND	0.050									
Naphthalene	ND	0.10									
1-Methylnaphthalene	ND	0.20									
2-Methylnaphthalene	ND	0.20									
Acetone	ND	0.75									
Bromobenzene	ND	0.050									
Bromodichloromethane	ND	0.050									
Bromoform	ND	0.050									
Bromomethane	ND	0.15									
2-Butanone	ND	0.50									
Carbon disulfide	ND	0.50									
Carbon tetrachloride	ND	0.050									
Chlorobenzene	ND	0.050									
Chloroethane	ND	0.10									
Chloroform	ND	0.050									
Chloromethane	ND	0.15									
2-Chlorotoluene	ND	0.050			J						
4-Chlorotoluene	ND	0.050									
cis-1,2-DCE	ND	0.050									
cis-1,3-Dichloropropene	ND	0.050									
1,2-Dibromo-3-chloropropane	ND	0.10									
Dibromochloromethane	ND	0.050									
Dibromomethane	ND	0.050									
1,2-Dichlorobenzene	ND	0.050									
1,3-Dichlorobenzene	ND	0.050									
1,4-Dichlorobenzene	ND	0.050									
Dichlorodifluoromethane	ND	0.050									
1,1-Dichloroethane	ND	0.050									
1,1-Dichloroethene	ND	0.050									
1,2-Dichloropropane	ND	0.050									
1,3-Dichloropropane	ND	0.050									
2.2-Dichloropropane	ND	0.10									

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection LimitW Sample container temperature is out of limit as specified

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1607F33 09-Aug-16

WO#:

Client: Project: WPX Energy WLU 6 Well Pad

Sample ID mb-26693	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batcl	h ID: 26	693	F	RunNo: 3					
Prep Date: 7/29/2016	Analysis D	Date: 8/	6/2016	5	SeqNo: 1	124080	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050			-					
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.49		0.5000		97.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.6	70	130			
Surr: Toluene-d8	0.55		0.5000		111	70	130			
Surr: 4-Bromofluorobenzene	0.61		0.5000		122	70	130			
Sample ID Ics-26693	Samp	Type: LC	s	Tes	tCode: E	PA Method	8260B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 26	693	F	RunNo: 3	6260				
Prep Date: 7/29/2016	Analysis [Date: 8/	6/2016	5	SeqNo: 1	124081	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.5	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Chlorobenzene	1.0	0.050	1.000	0	101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В

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- E Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- Reporting Detection Limit RL

W Sample container temperature is out of limit as specified

1607F33 WO#:

09-Aug-16

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.									
Client:	WPX Energy								

Project: WLU 6 Well Pad

Sample ID Ics-26693	SampType: LCS TestCode: EPA Method 8260B: Volatiles									
Client ID: LCSS	Batch ID: 26693			RunNo: 36260						
Prep Date: 7/29/2016	Analysis D	Date: 8/	6/2016	S	SeqNo: 1	124081	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.0	0.050	1.000	0	102	70	130			
Trichloroethene (TCE)	0.93	0.050	1.000	0	92.8	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.2	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.59		0.5000		118	70	130			
Sample ID 1607f33-001ams	Samp	Гуре: МS	3	Tes	tCode: E	PA Method	8260B: Vola	tiles		
Client ID: 072816-1 (meters)	Batc	h ID: 26	693	F	RunNo: 3	6260				
Prep Date: 7/29/2016	Analysis [Date: 8/	6/2016	5	SeqNo: 1	124083	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9970	0	87.2	49.2	155			
Toluene	0.95	0.050	0.9970	0	95.1	52	154			
Chlorobenzene	0.96	0.050	0.9970	0	95.9	53.2	150			
1,1-Dichloroethene	0.90	0.050	0.9970	0	90.1	34.2	163			
Trichloroethene (TCE)	0.89	0.050	0.9970	0	89.6	48.2	151			
Surr: Dibromofluoromethane	0.48		0.4985		95.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.4985		88.7	70	130			
Surr: Toluene-d8	0.53		0.4985		106	70	130			
Surr: 4-Bromofluorobenzene	0.59		0.4985		118	70	130			
Sample ID 1607f33-001amsd	Samp	Type: MS	SD	Tes	tCode: E	PA Method	8260B: Vola	tiles		
Client ID: 072816-1 (meters)	Batc	h ID: 26	693	RunNo: 36260						
Prep Date: 7/29/2016	5									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9434	0	88.9	49.2	155	3.59	20	
Toluene	0.91	0.047	0.9434	0	96.0	52	154	4.57	20	
Chlorobenzene	0.92	0.047	0.9434	0	97.3	53.2	150	4.06	20	
1,1-Dichloroethene	0.85	0.047	0.9434	0	89.9	34.2	163	5.76	20	
Trichloroethene (TCE)	0.88	0.047	0.9434	0	93.7	48.2	151	1.07	20	
Surr: Dibromofluoromethane	0.49		0.4717		104	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.44		0.4717		94.1	70	130	0	0	
Surr: Toluene-d8	0.51		0.4717		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.56		0.4717		119	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Detection Limit

В

Р

W Sample container temperature is out of limit as specified

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WO#: 1607F33

09-Aug-16

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenial / Albu TEL: 505-345-3975 Website: www.hal	(nalysi 4901 querqu PAX: 5 lenviro	s Laborat Hawkins e, NM 87. 05-345-41 amental.c	ory NE 109 Sam j 167	ole Log-In C	heck List
Client Name: WPX ENERGY	Work Order Number.	1607	F33		RcptNo	1
Received by/cate:	OTEGINO					
Logged By: Lindsay Mangin	7/29/2016 7:30:00 AM			Higo		
Completed By: Lindsay Mangin	7/29/2016 8:55:57 AM			ALAMO		
Reviewed By: TO	7/70/16			050		
Chain of Custody	ded.					
1. Custody seals intact on sample bottles?		Yes		No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes	~	No 🗌	Not Present	
3. How was the sample delivered?		Cour	ier			
Log in						
4. Was an attempt made to cool the samples	,	Yes	V	No	NA	
5. Were all samples received at a temperature	of >0" C to 6.0"C	Yes	V	No		
6. Sample(s) in proper container(s)?		Yes	V	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes	\checkmark	No 🗌		
8. Are samples (except VOA and ONG) proper	y preserved?	Yes	-	No		
9. Was preservative added to bottles?		Yes		No 🗹	NA	
10.VOA vials have zero headspace?		Yes		No	No VOA Viels	
11. Were any sample containers received broke	an?	Yes		No V		
12. Does paperwork match bottle labels?		Yes	V	No 🗌	# of preserved bottles checked for pH:	or 210 using a stad
13 Are matrices correctly identified on Chain of	Custody?	Ves	~	No 🗌	Adjusted?	or >12 unless noted
14. Is it clear what analyses were requested?	ousidoy r	Yes	~	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with	this order?	Yes	0	No 🗌	NA M	
Person Notified: By Whom: Regarding:	Date Via.) eMa	ail 🗌 P	hone 🗌 Fax	In Person	
17. Additional remarks:						
18. <u>Cooler Information</u> <u>Cooler No</u> Temp ^e C Condition Se 1 3.2 Good Yes	eal Intact Seal No S 5	ieal Di	ate	Signed By		

Page 1 of 1

Client: MRX Eporary			Turn-Around T	îme:			U		HALI	. EN	VIRC	NM	ENTA	L	
WPX Energy				X Standard Rush						ANA	LYS	S LA	BOR	ATO	RY
				Project Name:						w	ww.ha	llenviror	mente	com	
Mailing Address: PO Box 640				WLU 6 Well Pad				4901 Hawkins NE - Albuquergue, NM 8710							
		A	ztec. NM 87410	Project #:			1	Т	el. 50	5-345-	3975	Fax	505-3	45-410	7
Phone #:	505-33	3-1880/50	5-386-9693	1						Ar	alysis	Reque	st		
email or Fax	#:	deborah	watson@woxenergy.com	Project Manacer											
OA/CC Packa	de:			D. Watson											
X Standard	90.		Level 4 (Full Validation)					8							
Accreditation	1:			Sampler: D W	atsoh		1	N/N							
O NELAP		□ Other		On Ice:	Z Yes 1	□ No	1	JRC							=
EDD (Typ	e)			Sample Temp	erature:4,2	-1. COF=3.2	1	ď							N N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	VOCs (8260)	TPH (8015) GF	Chlorides						Air Bubbles (Y
7/28/2016	9:56	soil	072816-1 (meters)	1-8 oz/1- 4oz	cold	-001	X	X	x	-	-			-	+
During	Time	Patronich	and loss	Paraitan hu		Date Time	Ret								
1μ/φ Date:	1540 Time:	Relinquishe	h Watu	Received by	Lat -	7/28/16 1540 Date Time	Rei	nark	. . .						
1/28/14	1920	1th	Wat	UA	= 07/2	she ozo									

If necessary, sampled submitted to Hall Environmental may be subcontracted to other accredited aboratories. This serves as notice of this possibility. Any sub-contracted data will be plearly notated on the analytical report.