District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification KLHSL-190906-C-1410

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Deborah Watson	Contact Telephone: 575-885-7561
Contact email: deborah.watson@wpxenergy.com	Incident # 2RP-5502
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88	2220

Location of Release Source

Latitude 32.32517 Longitude -104.03750 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: L	ongview Fed	deral 12 #002H		Site Type:	Well Pad	
Date Release	Discovered:	June 7, 2019		API# (if app	licable) 30-015-42236	
Unit Letter	Section	Township	Range	Coun	ty	
В	12	23S	28E	Eddy		
Surface Owner: State Federal Tribal Private (Name:)						
Nature and Volume of Release						
	Materia	l(s) Released (Select a	ll that apply and attach	n calculations or specific	justification for the volumes provided below)	
Crude Oil		Volume Release	ed (bbls)		Volume Recovered (bbls)	

Iviateliai	(s) Released (Select all that apply and attach calculations of specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units) 120 bbls	Volume/Weight Recovered (provide units) 0 bbls
Production Fluids		
(Crude and PW)		
Cause of Release		
Unauthorized dumping of	production fluids on pad. Impacted soils on- and off-	location.

Incident ID	
District RP	
Facility ID	
A1'4' ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of fluids greater than 25 bbl. Impacted soils on- and off- location.
Deborah Watson contacte	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? It defends that Mike Bratcher (NMOCD) and Jim Amos (BLM) via phone call on June 7, 2019 between 2:30 and 2:45 PM. Int to Mike Bratcher, Jim Amos, and Jim Griswold.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
D 10 17 20 0 D (1) NH	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Deborah V	Vatson Title: Environmental Specialist
Signature:	Date: September 6, 2019
email: deborah.watson@v	wpxenergy.com Telephone: 575-885-7561
OCD Only	
Received by:	Date:

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfil	l or photos of the liner integrity if applicable (Note: appropriate OCD District office
must be notified 2 days prior to liner inspection)	
☐ Laboratory analyses of final sampling (Note: appro	opriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or may endanger public health or the environment. The acc should their operations have failed to adequately investig human health or the environment. In addition, OCD acc compliance with any other federal, state, or local laws ar restore, reclaim, and re-vegetate the impacted surface are	and complete to the best of my knowledge and understand that pursuant to OCD rules in file certain release notifications and perform corrective actions for releases which ceptance of a C-141 report by the OCD does not relieve the operator of liability gate and remediate contamination that pose a threat to groundwater, surface water, eptance of a C-141 report does not relieve the operator of responsibility for ind/or regulations. The responsible party acknowledges they must substantially ea to the conditions that existed prior to the release or their final land use in ton to the OCD when reclamation and re-vegetation are complete.
Printed Name: Deborah Watson	Title: HSE Specialist
Signature:	Date: September 6, 2019
email: deborah.watson@wpxenergy.com	Telephone: 575-885-7561
OCD Only	
Received by:	Date:
	asible party of liability should their operations have failed to adequately investigate and er, surface water, human health, or the environment nor does not relieve the responsible l laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

September 6, 2019

Deborah Watson Environmental Specialist - Permian Basin 5315 Buena Vista Dr. Carlsbad, NM 88220

KLHSL-190906-C-1410

Closure Report Longview Federal 12 #002H 2RP-5502 API #: 30-015-42236 Eddy County, New Mexico

Mrs. Watson:

On behalf of WPX Energy Permian, LLC, HRL Compliance Solutions, Inc. (HRL) is pleased to submit the attached closure report summarizing the closure actions taken in regards to the Longview Federal 12 #002H release. The purpose of the report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation and closure of the release that occurred on June 7, 2019. Table 1 below summarizes information regarding the release.

Table 1: Release Summary

Site Name	Longview Federal 12 #002H				
	Lat. Long. Unit Letter, Section,				
Location	Township, Ra				
	32.325550°	-104.038435°	Unit Letter B, Section		
			12, Township 23S,		
			Range 28E		
District RP	2RP-5502				
Estimated Date of Release	6/7/2019				
Date Reported	6/7/2019				
Reported By	Deborah Watson				
Reported To	NMOCD and BLM				
Surface Owner	Federal				
Cause of Release	Unauthorized dumping of production fluids on pad				
Released Material	Production Fluids				



Volume Release	120 bbls
Volume Recovered	0 bbls
Net Release	120 bbls
Depth to Groundwater	<50 feet
Nearest Waterway	Pecos River, 1.1 miles West of Release

1.0 Initial Response & Notification

A release was discovered on June 7th, 2019 at the Longview Federal 12 #002H well site, as a result of unauthorized dumping of production fluids onto the well pad. Mike Bratcher of NMOCD and Jim Amos of BLM were notified of the release by Deborah Watson on June 7, 2019 via phone call. An estimated 120 bbls of production fluids impacted soils on the northwest portion of the well pad as well as the adjacent pasture area located to the west of the well pad. No free-liquids were present upon discovery.

2.0 Site Assessment and Characterization

The site location is approximately 5 miles northeast of Loving, New Mexico with an elevation of approximately 3,025 feet above sea level. The well site and the adjacent pasture area are both located on federal land. A site location map is provided on Figure 1. The nearest surface water, Pecos River, is located approximately 1.1 miles west of the release (Figure 2).

Depth-to-groundwater at the release site is estimated to be less than 50 feet below ground surface as determined by review of the New Mexico State Engineer's Office (NMOSE) water column report and United States Geological Survey (USGS) National Water Information System. The NMOSE water column report for a radius of 2 miles from the origin of release shows average depth to groundwater of 43 feet. A 3 mile radius search of the USGS National Water Information System revealed 6 water wells with an average depth to groundwater of 19 feet. Figure 2 presents a site location map of water wells relevant to the depth-to-groundwater determination.

2



An assessment of wetlands and springs was conducted using a 2010 USGS topographical 7.5-minute map of Loving, New Mexico. No wetlands were identified within 300 feet of the release location. There are no springs within 1000 feet of this location. Figure 3 shows the topographic map of the pertinent area.

The release location is not within an area identified as unstable karst geology. An area map generated with data from the USGS displaying geologic units and structural features is shown on Figure 4.

Based on the assessments outlined above the following closure criteria was implemented to remediate the site.

 Closure Criteria

 Depth to Ground Water
 Constituent
 Limit

 Less than 50 feet
 Chloride
 600 mg/kg

 TPH (GRO+DRO+MRO)
 100 mg/kg

 BTEX
 50 mg/kg

 Benzene
 10 mg/kg

Table 2: Closure Criteria

3.0 Soil Remediation

Remedial activity at the Longview Federal 12 #002H consisted of the following actions:

- June 10, 2019- HRL personnel were present at the release location, to assess the impacted areas and conduct initial site delineation. GPS data was collected for the impacted area and the resulting spill map is shown on Figure 5.
- June 20, 2019- Kelley Oilfield Services began remediation activity by excavating material from the well pad and pasture areas.
- HRL personnel were onsite to collect field screens, using an electrical conductivity (EC) meter and a photoionization detector (PID) unit.
- A PID unit was used to approximate soil concentrations of volatile organic compounds or VOC's such as benzene and lighter end hydrocarbon chains. The EC meter was utilized to approximate soil chloride concentrations. A field screen location map is attached on Figure 6.
- A total of thirty-four (34) soil field screens were collected throughout the excavation footprint from depths ranging from six inches to two feet below ground surface. The field screen data results were utilized to guide the excavation to soil concentration

3



- below the limits outlined in the NMOCD closure criteria. A summary of the field screen data results are attached in Table A.
- Excavation of the impacted soil on the well pad surface was completed to a depth of one foot below ground surface for all areas on the well pad.
- Excavation of the impacted area in the pasture was completed to depth of two feet below ground surface.
- In the pasture area a hardpan layer was encountered at approximately 1 foot. A hammer hoe was utilized to break through the hardpan and extend the excavation to the final depth of two feet.
- An estimated 160 cubic yards of impacted soil was removed from the location and transported to R360 waste management facility located in Hobbs, New Mexico.
 Disposal was conducted by Kelley Oilfield Services and took place continuously throughout the excavation period.
- Upon receipt of confirmatory soil samples to verify the excavated area was below NMOCD closure criteria concentrations, Kelley Oilfield Services backfilled and compacted the well pad excavation area with approximately 60 yards of clean caliche. The pasture area was backfilled with 100 yards of clean topsoil. Backfilling of both areas took place on July 8th, 2019.
- The backfilled pasture was subsequently reseeded with BLM #2 seed mix by Kelley Oilfield Services on July, 17th 2019.

4.0 Soil Sampling and Analytical Results

Confirmation sampling took place on June 25, 2019. A confirmation sample plan was implemented where 5 point composite samples were collected such that they represented areas less than 200 square feet, in accordance with Subparagraph (c) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC. Confirmation sample locations are depicted on Figures 7A, 7B, and 7C. A total of 22 confirmation samples were collected, including 17 excavation footprint samples and 5 sidewall samples. The confirmation samples were submitted to Hall Environmental Analysis Laboratory, a National Environmental Laboratory Accreditation Program (NELAP) laboratory, in accordance with NMOCD soil sampling procedures. The samples were analyzed for chlorides by EPA Method 300.0, volatile organics (BTEX) by EPA Method 8021B, and DRO, GRO and MRO by EPA Method 8015D. A summary of the laboratory results are attached as Table B with the raw analytical reports included as Appendix A.



5.0 Summary

A release of 120 bbls of production fluids was discovered on June 7th, 2019 at the Longview Federal 12 #002H production facility. The cause of the release was due to unauthorized dumping of production fluid onto the well pad surface which migrated into the adjacent pasture area. BLM and NMOCD were both notified on the day of discovery. The well pad and pasture are both located on federal property. Soil remediation activities involved excavating the impacted areas to a depth of approximately one foot below ground surface on the well pad and approximately 2 feet below ground surface within the pasture field. An estimated 160 cubic yards of impacted soil was transported for disposal to R360 waste management facility located in Hobbs, New Mexico.

A total of twenty-two (22) confirmation samples were collected from within the excavation to verify cleanup at the location. Analytical results for all twenty-two samples were reported below the concentration limits outlined in Table 1 of Subsection E of NMAC 19.15.29.12. Following analytical confirmation, the excavation on the well pad was backfilled and compacted with roughly 60 cubic yards of caliche. The pasture was backfilled with approximately 100 cubic yards of clean topsoil and reseeded with BLM #2 seed mix. No further remedial action is recommended.

6.0 Scope and Limitations

The scope of HRL's services consists of conducting site delineation, verification of release stabilization, regulatory liaison, guiding remediation activity, collecting confirmation soil samples, and preparation of this closure report. All work has been performed in accordance with 19.15.29 NMAC.

If there are any questions regarding this report, please contact Kevin Smith at 575-616-7398 Ext. 435.

Prepared by:

HRL Compliance Solutions, Inc.

Kevin Smith

Environmental Scientist - Permian

Kein Durch



Attachments:

Figure 1: Site Location Map

Figure 2: Depth to Groundwater Map Figure 3: Site Topographic Assessment

Figure 4: Karst Assessment Map

Figure 5: Spill Area Map

Figure 6: Field Screen Sample Location Map

Figure 7A: Confirmation Sample Location Map - Footprint

Figure 7B: Confirmation Sample Location Map – Footprint with Sample Labels

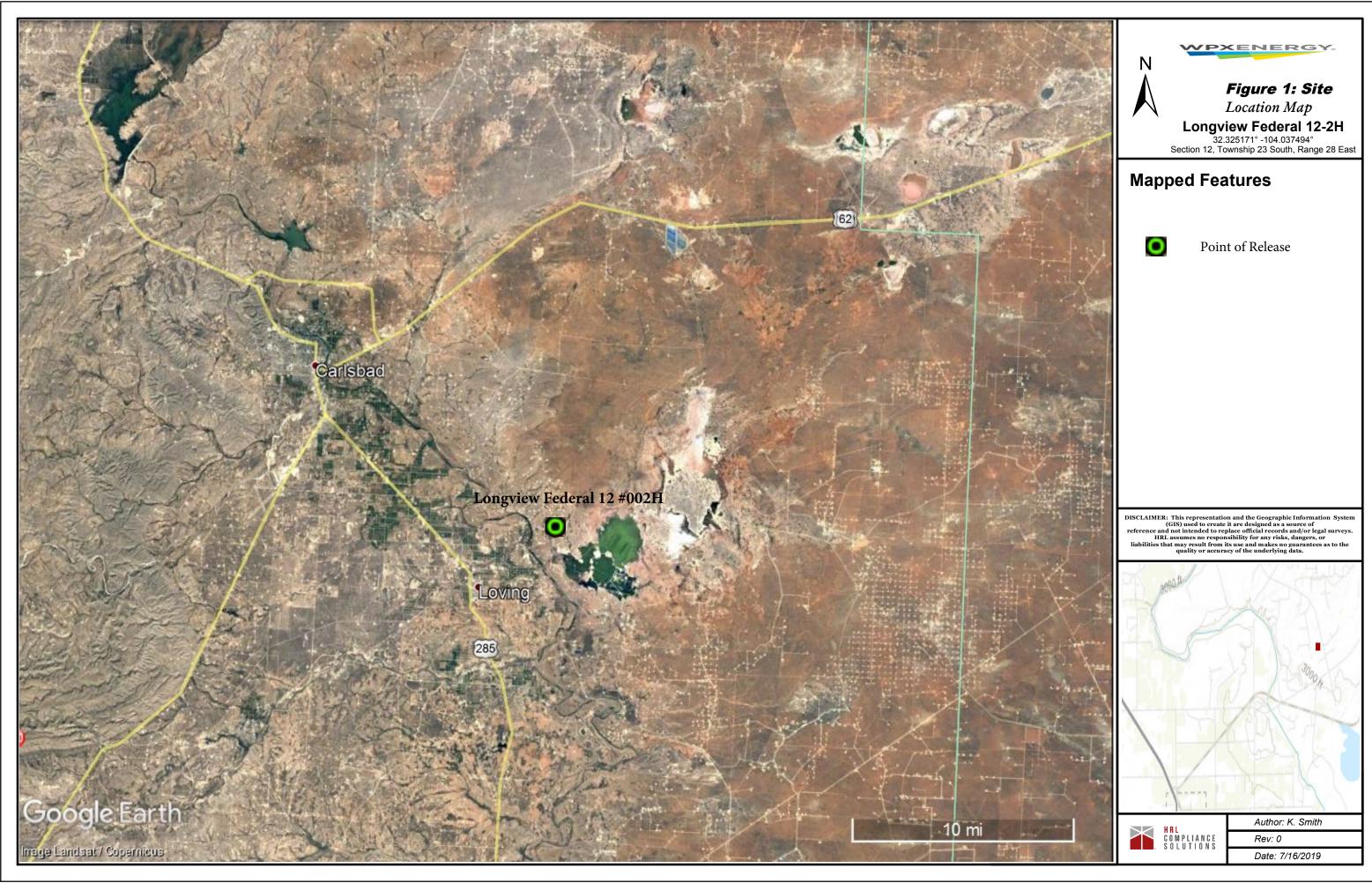
Figure 7C: Confirmation Sample Location Map - Sidewalls

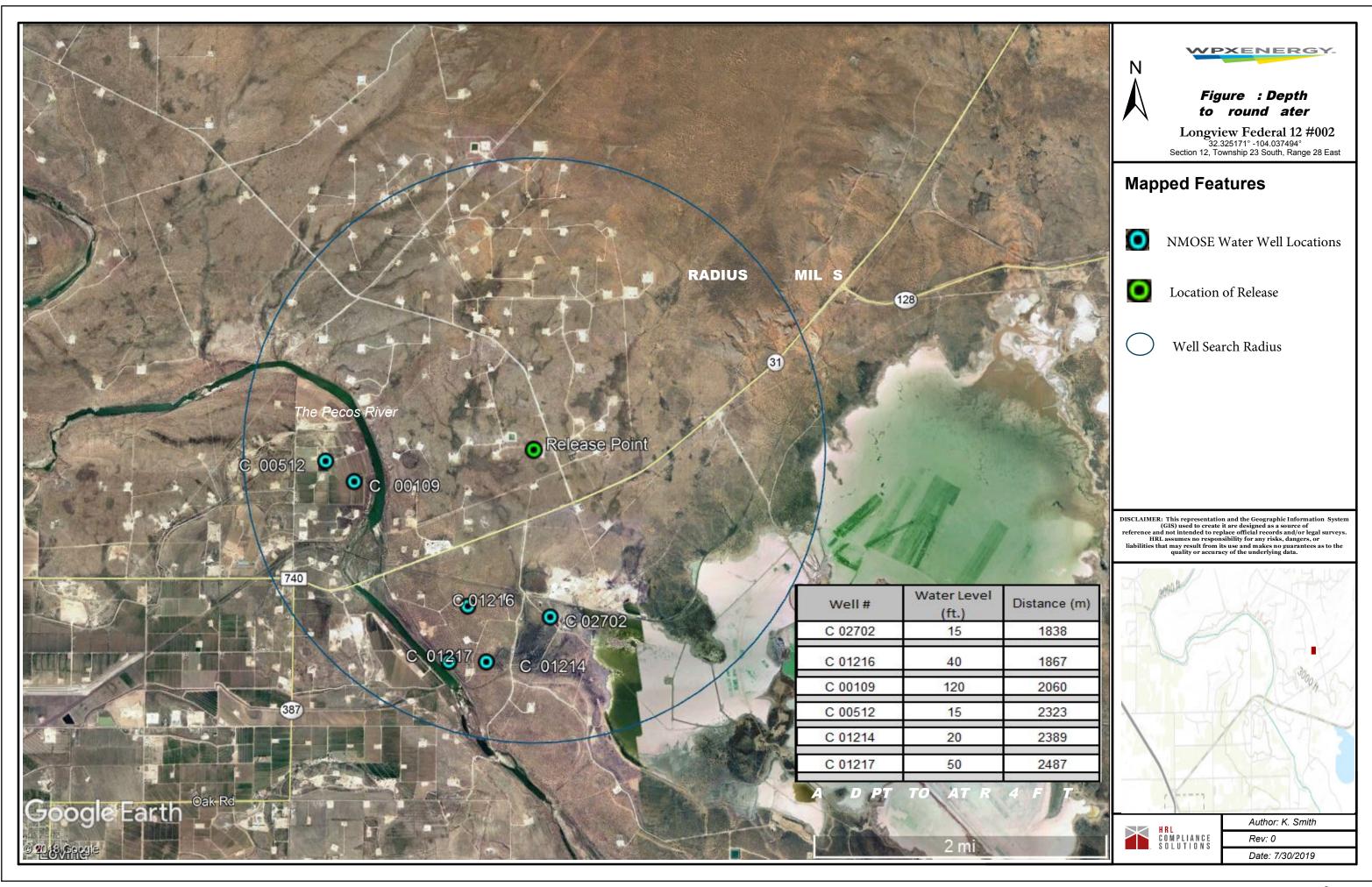
Table A: Field Screen Data Summary
Table B: Analytical Results Summary
Appendix A: C-141 Release Notification

Appendix B: Confirmation Sampling Notification

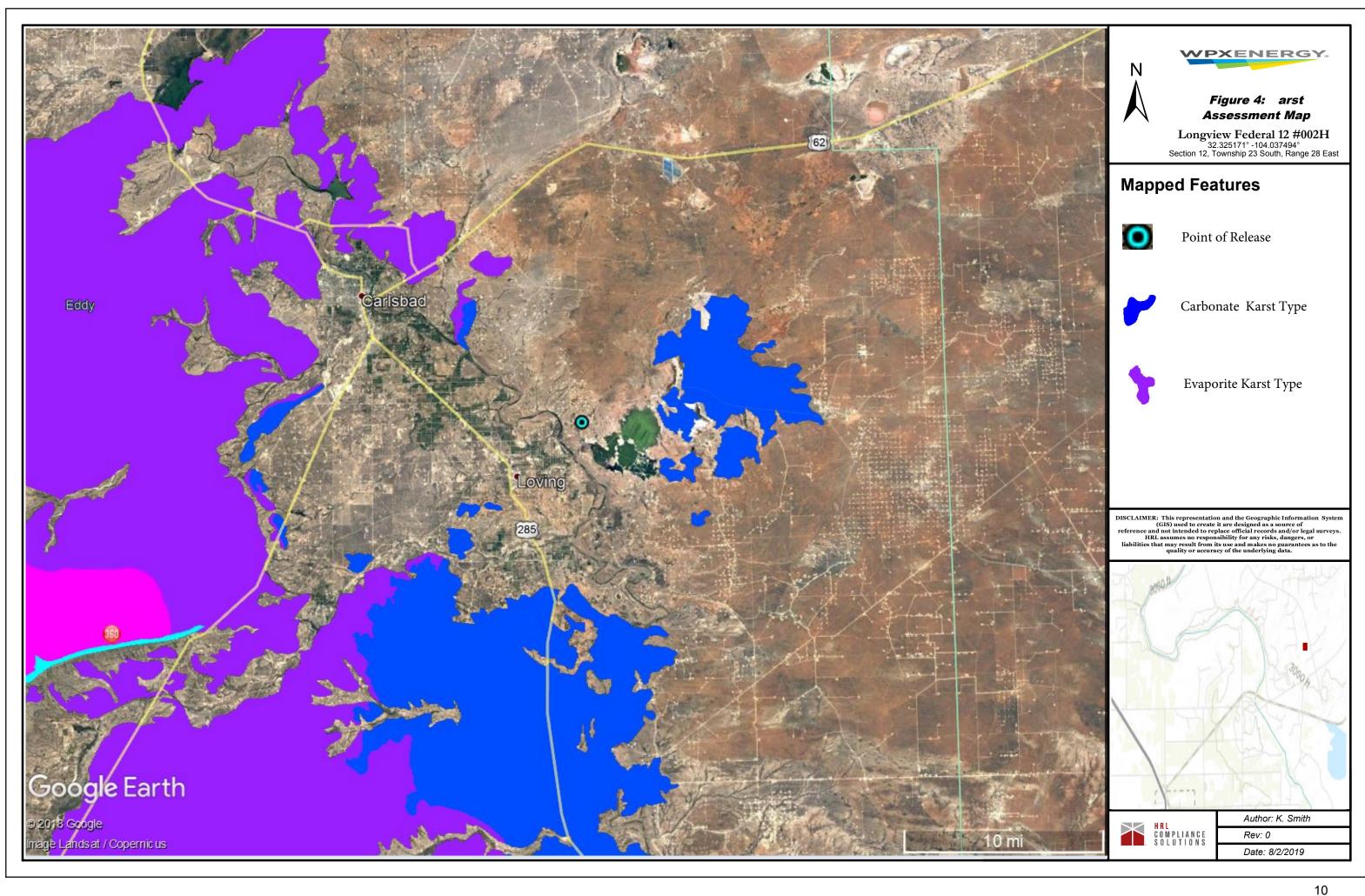
Appendix C: Laboratory Analytical Reports

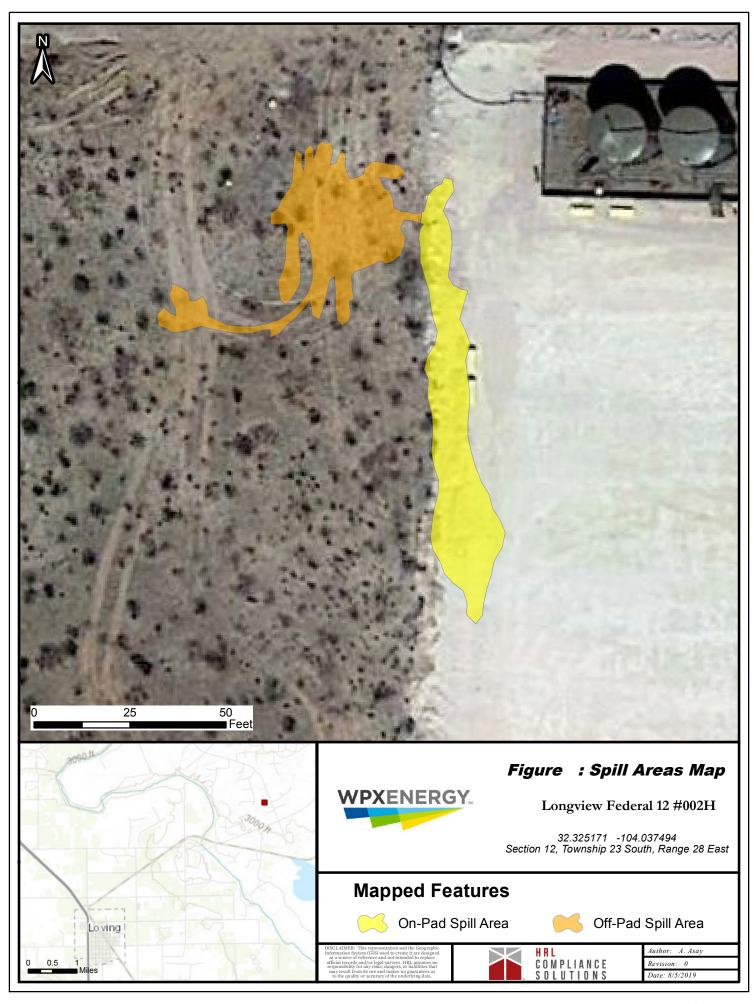
Appendix D: Site Photographs

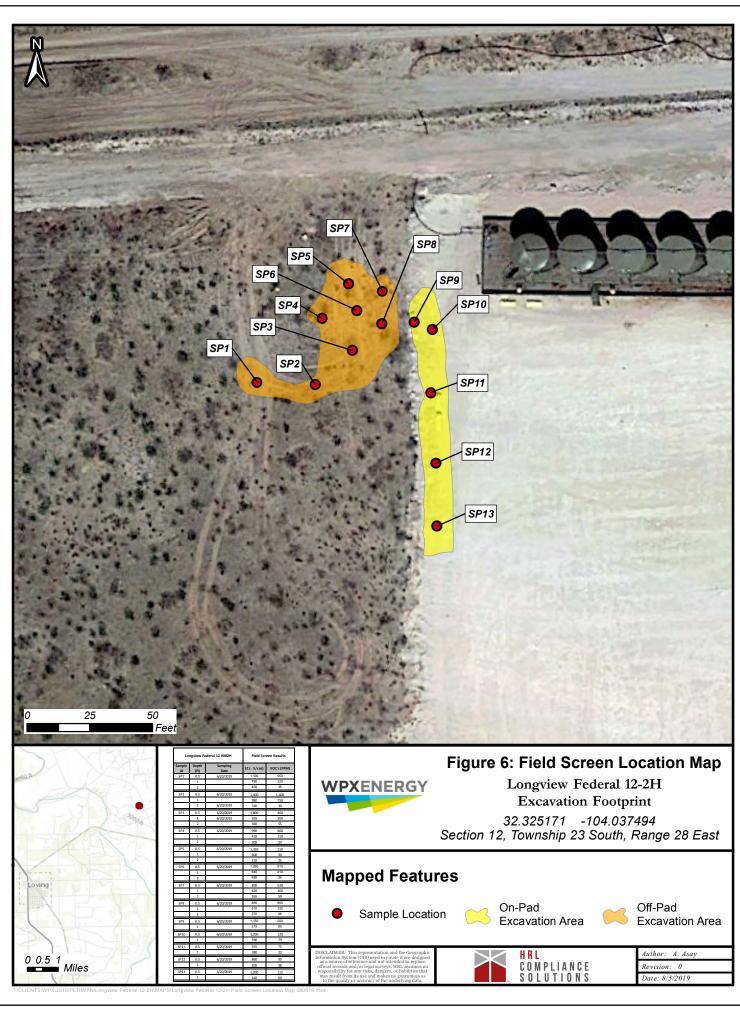


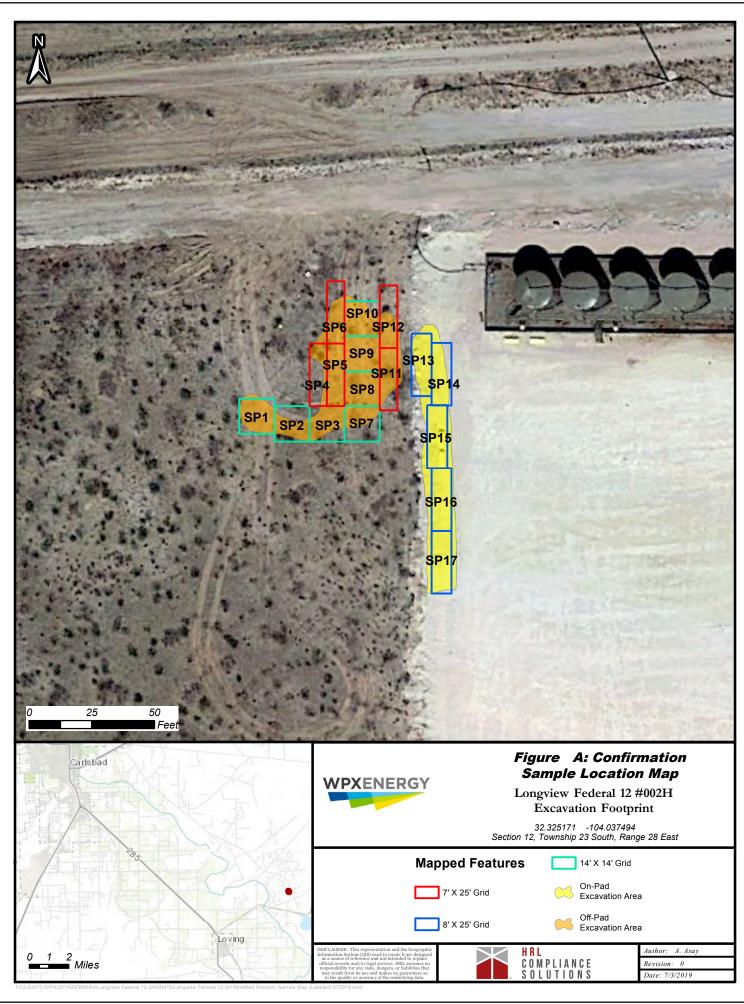


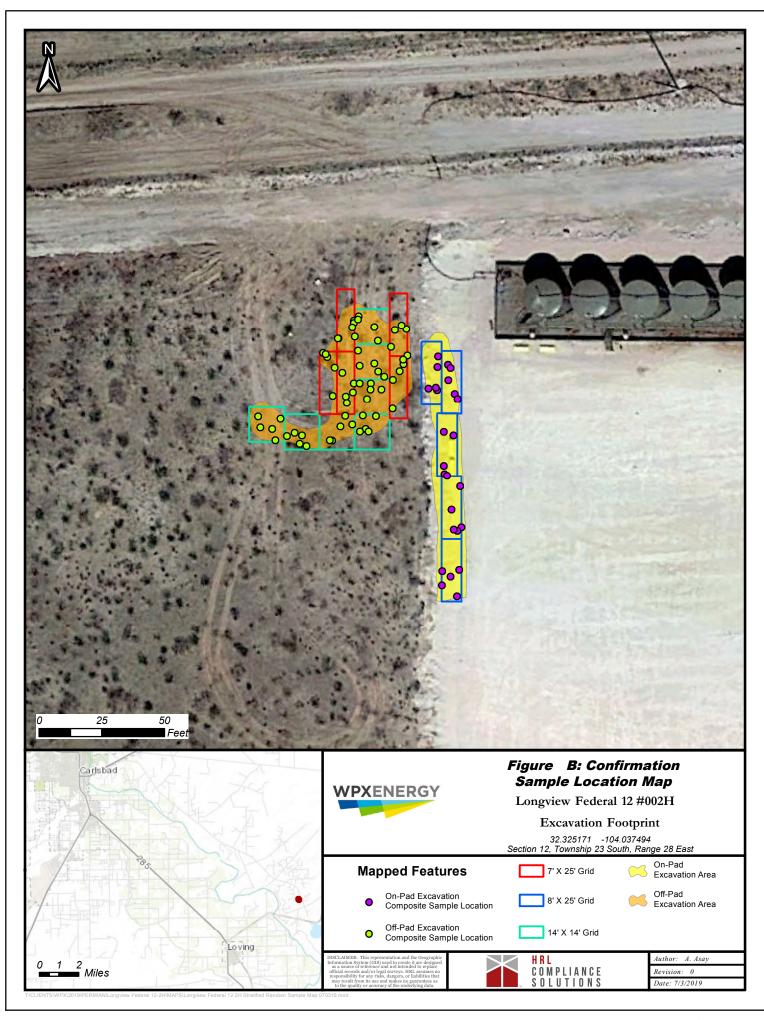












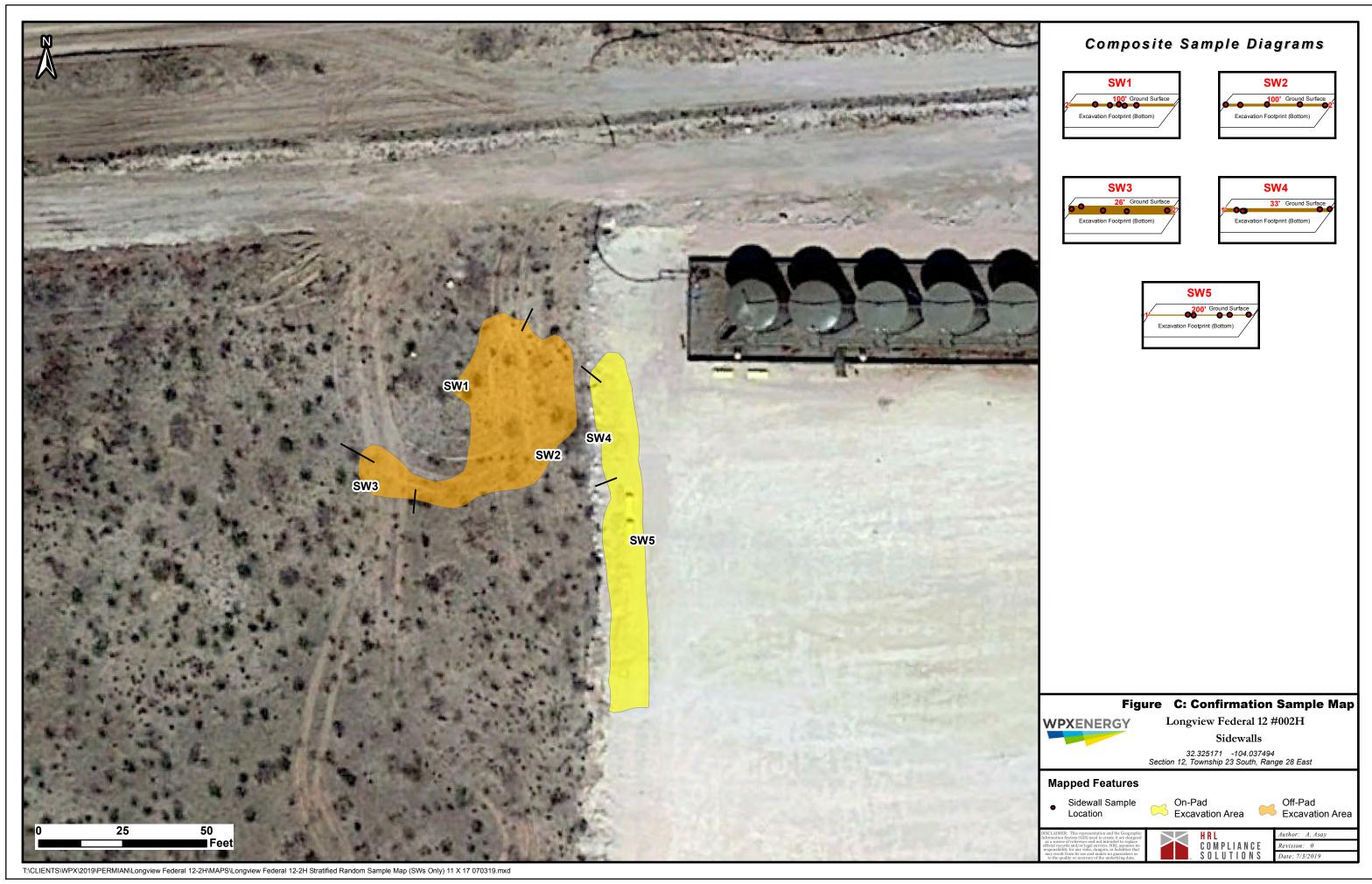




Table A: Field Screen Data Summary

Table A: Field Screen Summary

Longview Federal 12 #002H		Field	Screen Results	
Sample ID	Depth(ft)	Sampling Date	EC (μS/cm)	VOC's (PPM)
SP1	0.5	6/20/2019	1,100	950
	1		790	220
	2		450	35
SP2	0.5 6/20/2019 1,400		1,600	
	1		980	750
	2	6/20/2019	320	30
SP3	0.5	6/20/2019	1,800	400
	1	6/20/2019	655	200
	2		360	55
SP4	0.5	6/20/2019	990	660
	1		410	110
	2		300	20
SP5	0.5	6/20/2019	1,350	210
	1		600	30
	2		210	25
SP6	0.5	6/20/2019	1,260	810
	1		640	410
	2		490	36
SP7	0.5	6/20/2019	850	530
	1		620	160
	2		265	59
SP8	0.5	6/20/2019	855	805
	1		510	120
	2		270	26
SP9	0.5	6/20/2019	1,150	200
	1		515	65
SP10	0.5	6/20/2019	1,200	120
	1		590	79
SP11	0.5	6/20/2019	975	75
	1		380	20
SP12	0.5	6/20/2019	860	95
	1	-	200	38
SP13	0.5	6/20/2019	1,200	115
	1		410	60



Table B: Laboratory Analytical Results Summary

Table B: Analytical Results Summary

WPX Energy, Inc.			Sample Results						
	view Federal :					rted in mg/kg			
NM OCD Ta	ble 1 Threshol		600	10	50	100			
Sample ID	Depth (bgs)	Sampling Date	Chloride	Benzene	BTEX	GRO	DRO	MRO	Total TPH
FP1	2	6/25/2019	<60	<0.025	<0.224	<5.0	<9.3	<46	<60.3
FP2	2	6/25/2019	<60	<0.025	<0.225	<5.0	<9.6	<48	<62.6
FP3	2	6/25/2019	<60	<0.025	<0.224	<5.0	10	<49	<63.8
FP4	2	6/25/2019	<60	<0.025	<0.225	<5.0	21	<50	<76
FP5	2	6/25/2019	<60	<0.025	<0.225	<5.0	<9.8	<49	<63.8
FP6	2	6/25/2019	<60	<0.025	<0.225	<5.0	24	<48	<77
FP7	2	6/25/2019	<60	<0.025	<0.224	<5.0	<9.7	<49	<63.7
FP8	2	6/25/2019	<60	<0.025	<0.224	<5.0	<9.3	<47	<61.3
FP9	2	6/25/2019	<60	<0.025	<0.225	<5.0	28	<49	<82
FP10	2	6/25/2019	<60	<0.025	<0.224	<5.0	<9.4	<47	<61.4
FP11	2	6/25/2019	<60	<0.025	<0.225	<5.0	<9.3	<47	<61.3
FP12	2	6/25/2019	<60	<0.025	<0.225	<5.0	<9.4	<47	<61.4
FP13	1	6/25/2019	<60	<0.025	<0.222	<4.9	<9.6	<48	<62.5
FP14	1	6/25/2019	<60	<0.025	<0.225	<5.0	<9.9	<49	<63.9
FP15	1	6/25/2019	61	<0.025	<0.222	<4.9	<9.5	<47	<61.4
FP16	1	6/25/2019	<60	<0.025	<0.225	<5.0	29	<46	<80
FP17	1	6/25/2019	<60	<0.025	<0.222	<4.9	<9.4	<47	<61.3
SW1	Composite	6/25/2019	<60	<0.025	<0.222	<4.9	<9.7	<49	<63.6
SW2	Composite	6/25/2019	<60	<0.025	<0.222	<4.9	<10	<50	<64.9
SW3	Composite	6/25/2019	<60	<0.025	<0.225	<5.0	<10	<50	<65
SW4	Composite	6/25/2019	<60	<0.024	<0.219	<4.9	<9.9	<49	<63.8
SW5	Composite	6/25/2019	<60	<0.025	<0.225	<5.0	<9.7	<49	<63.7



Appendix A: C-141 - Release Notification

pAB1917737940

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Deborah Watson	Contact Telephone: 575-885-7561
Contact email: deborah.watson@wpxenergy.com	Incident # (assigned by OCD) NAB1917738478
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88	2220

Location of Release Source

Latitude 32.32517 Longitude -104.03750 (NAD 83 in decimal degrees to 5 decimal places)

Site Type: Well Pad

Site Name: Longview Federal 12 #002H

Date Release Discovered: June 7, 2019

Date Release Discovered: June 7, 2019					API# (if app	olicable) 30-015-4	2236			
Unit Letter	Section	Township	Range		Coun	ity	1			
		1		Г11						
В	12	23S	28E	Eddy	y					
Surface Owner	r: State	∑ Federal ☐ Tı	ribal Private	(Name:)			
			Nature an	nd Vol	lume of I	Release				
	Materia	l(s) Released (Select al	l that apply and atta	ch calculat	ions or specific	justification for the	volumes provided below)			
Crude Oi		Volume Release	d (bbls)			Volume Reco	vered (bbls)			
Produced	duced Water Volume Released (bbls)				Volume Recovered (bbls)					
	Is the concentration of dissolved chloride produced water >10,000 mg/l?			e in the	Yes N	0				
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)				
Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provi	ide units)	120 bbls	Volume/Weig	tht Recovered (provide units) 0 bbls			
Production F	luids									
(Crude and P	W)									
Cause of Rel										
Unauthorized	dumping of	f production fluids	on pad. Impact	ted soils	on- and off-	location.				

		pAB1917737940
Was this a major		onsible party consider this a major release? Unauthorized release of
release as defined by 19.15.29.7(A) NMAC?	fluids greater than 25 bbl. Impacted soil	on- and off- location.
, ,		
Yes No		
ICMEC ' 1' 4	1	1 9 W/ 11 - 1 4 (1 '1 4)9
Deborah Watson contacte		hom? When and by what means (phone, email, etc)? s (BLM) via phone call on June 7, 2019 between 2:30 and 2:45 PM. riswold.
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	I the environment.
	•	dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed a	•
If all the actions describe	ed above have <u>not</u> been undertaken, explain	why: No free liquids upon discovery. Remediation is underway.
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		•
		best of my knowledge and understand that pursuant to OCD rules and ifications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		f responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Deborah V	Watson Title: Environmental Specialist	
N.b.	nah Wath	
Signature:	Date: 6/21/20	19
email: deborah.watson@	wpxenergy.com Telephone: 57	'5-885-7561
OCD Only		
Received by: Amalia	a Bustamante	Date: 6/26/2019



Appendix B: Confirmation Sampling Notification

From: <u>Watson, Debbie</u>

To: "Mike Bratcher"; Venegas, Victoria, EMNRD; Hamlet, Robert, EMNRD; Amos, James

Cc: <u>Kevin Smith</u>; <u>Lori O"Brien</u>

Subject: Confirmation Sampling Notification-Longview Federal 12-2H

Date: Friday, June 21, 2019 8:02:00 AM

Good Morning,

This email serves as notification of confirmation sample collection for the recent spill at the Longview Federal 12-2H (API 30-015-42236). HRL will be onsite to collect samples on Tuesday, June 25 at 8:30 AM.

Please contact me with any questions. Thank you.

Have a great weekend,

Debbie

Deborah Watson
Environmental Specialist
5315 Buena Vista Drive | Carlsbad, NM 88220
office 575.885.7561 | cell 505.386.9693
deborah.watson@wpxenergy.com



If you have received this message in error, please reply to advise the sender of the error and then immediately delete this message. Thank you.



Appendix C: Laboratory Analytical Results

Date Reported:

CLIENT: WPX Energy Client Sample ID: FP1

Collection Date: 6/25/2019 11:00:00 AM **Project:** Longview Federal 12 2H 1906E39-001 Matrix: SOIL **Received Date:** 6/26/2019 8:45:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 6:12:24 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/29/2019 2:58:52 AM	45871
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/29/2019 2:58:52 AM	45871
Surr: DNOP	88.3	70-130	%Rec	1	6/29/2019 2:58:52 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/27/2019 11:43:27 PM	45844
Surr: BFB	106	73.8-119	%Rec	1	6/27/2019 11:43:27 PM	45844
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/27/2019 11:43:27 PM	45844
Toluene	ND	0.050	mg/Kg	1	6/27/2019 11:43:27 PM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/27/2019 11:43:27 PM	45844
Xylenes, Total	ND	0.099	mg/Kg	1	6/27/2019 11:43:27 PM	45844
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	6/27/2019 11:43:27 PM	45844

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported:

CLIENT: WPX Energy **Client Sample ID:** FP2

Collection Date: 6/25/2019 11:00:00 AM **Project:** Longview Federal 12 2H 1906E39-002 Matrix: SOIL **Received Date:** 6/26/2019 8:45:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 7:14:26 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/29/2019 4:12:05 AM	45871
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/29/2019 4:12:05 AM	45871
Surr: DNOP	89.7	70-130	%Rec	1	6/29/2019 4:12:05 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 12:06:08 AM	45844
Surr: BFB	103	73.8-119	%Rec	1	6/28/2019 12:06:08 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 12:06:08 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 12:06:08 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 12:06:08 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 12:06:08 AM	45844
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	6/28/2019 12:06:08 AM	45844

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP3

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-003
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/30/2019 7:26:51 PM 45920 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 10 9.8 mg/Kg 6/29/2019 4:36:29 AM 45871 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 6/29/2019 4:36:29 AM 45871 Surr: DNOP 85.3 %Rec 6/29/2019 4:36:29 AM 70-130 45871 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 6/28/2019 12:28:55 AM 45844 Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 Surr: BFB 104 73.8-119 %Rec 6/28/2019 12:28:55 AM 45844 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 6/28/2019 12:28:55 AM 45844 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 6/28/2019 12:28:55 AM 45844 Ethylbenzene ND 0.050 mg/Kg 1 6/28/2019 12:28:55 AM 45844 Xylenes, Total ND 0.099 mg/Kg 6/28/2019 12:28:55 AM 45844 Surr: 4-Bromofluorobenzene 6/28/2019 12:28:55 AM 45844 94.6 80-120 %Rec

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP4

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-004
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 7:39:15 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	21	10	mg/Kg	1	6/29/2019 5:00:57 AM	45871
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/29/2019 5:00:57 AM	45871
Surr: DNOP	79.6	70-130	%Rec	1	6/29/2019 5:00:57 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 12:51:46 AM	45844
Surr: BFB	103	73.8-119	%Rec	1	6/28/2019 12:51:46 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 12:51:46 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 12:51:46 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 12:51:46 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 12:51:46 AM	45844
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	6/28/2019 12:51:46 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP5

Project: Longview Federal 12 2H Collection Date: 6/25/2019 11:00:00 AM

Lab ID: 1906E39-005 **Matrix:** SOIL **Received Date:** 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 7:51:40 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/29/2019 5:25:23 AM	45871
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/29/2019 5:25:23 AM	45871
Surr: DNOP	91.8	70-130	%Rec	1	6/29/2019 5:25:23 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 1:37:31 AM	45844
Surr: BFB	102	73.8-119	%Rec	1	6/28/2019 1:37:31 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 1:37:31 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 1:37:31 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 1:37:31 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 1:37:31 AM	45844
Surr: 4-Bromofluorobenzene	94.0	80-120	%Rec	1	6/28/2019 1:37:31 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

of the ph Not in Range Page 5 of 0

Date Reported:

CLIENT: WPX Energy Client Sample ID: FP6

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-006
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 8:04:04 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	24	9.6	mg/Kg	1	6/29/2019 5:49:49 AM	45871
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/29/2019 5:49:49 AM	45871
Surr: DNOP	82.4	70-130	%Rec	1	6/29/2019 5:49:49 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 2:00:13 AM	45844
Surr: BFB	110	73.8-119	%Rec	1	6/28/2019 2:00:13 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 2:00:13 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 2:00:13 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 2:00:13 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 2:00:13 AM	45844
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	6/28/2019 2:00:13 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP7

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-007
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/30/2019 8:16:29 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/29/2019 6:14:16 AM	45871
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/29/2019 6:14:16 AM	45871
Surr: DNOP	74.0	70-130	%Rec	1	6/29/2019 6:14:16 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 2:22:59 AM	45844
Surr: BFB	106	73.8-119	%Rec	1	6/28/2019 2:22:59 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 2:22:59 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 2:22:59 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 2:22:59 AM	45844
Xylenes, Total	ND	0.099	mg/Kg	1	6/28/2019 2:22:59 AM	45844
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	6/28/2019 2:22:59 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP8

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-008
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/30/2019 8:28:54 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	24	9.3	mg/Kg	1	6/29/2019 6:38:42 AM	45871
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/29/2019 6:38:42 AM	45871
Surr: DNOP	99.1	70-130	%Rec	1	6/29/2019 6:38:42 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 2:45:42 AM	45844
Surr: BFB	107	73.8-119	%Rec	1	6/28/2019 2:45:42 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 2:45:42 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 2:45:42 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 2:45:42 AM	45844
Xylenes, Total	ND	0.099	mg/Kg	1	6/28/2019 2:45:42 AM	45844
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	6/28/2019 2:45:42 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP9

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-009
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 8:41:19 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	TOM
Diesel Range Organics (DRO)	28	9.8	mg/Kg	1	6/29/2019 7:02:49 AM	45871
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/29/2019 7:02:49 AM	45871
Surr: DNOP	95.7	70-130	%Rec	1	6/29/2019 7:02:49 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 3:08:28 AM	45844
Surr: BFB	105	73.8-119	%Rec	1	6/28/2019 3:08:28 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 3:08:28 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 3:08:28 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 3:08:28 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 3:08:28 AM	45844
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	6/28/2019 3:08:28 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP10

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-010
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 9:18:32 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/29/2019 7:27:00 AM	45871
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/29/2019 7:27:00 AM	45871
Surr: DNOP	91.0	70-130	%Rec	1	6/29/2019 7:27:00 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 3:31:27 AM	45844
Surr: BFB	106	73.8-119	%Rec	1	6/28/2019 3:31:27 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 3:31:27 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 3:31:27 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 3:31:27 AM	45844
Xylenes, Total	ND	0.099	mg/Kg	1	6/28/2019 3:31:27 AM	45844
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	6/28/2019 3:31:27 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP11

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-011
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 9:30:57 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/29/2019 7:51:08 AM	45871
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/29/2019 7:51:08 AM	45871
Surr: DNOP	92.4	70-130	%Rec	1	6/29/2019 7:51:08 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 3:54:31 AM	45844
Surr: BFB	104	73.8-119	%Rec	1	6/28/2019 3:54:31 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 3:54:31 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 3:54:31 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 3:54:31 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 3:54:31 AM	45844
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	6/28/2019 3:54:31 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP12

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:00:00 AM

 Lab ID:
 1906E39-012
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/30/2019 9:43:21 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ТОМ
Diesel Range Organics (DRO)	9.6	9.4	mg/Kg	1	6/29/2019 8:15:13 AM	45871
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/29/2019 8:15:13 AM	45871
Surr: DNOP	96.0	70-130	%Rec	1	6/29/2019 8:15:13 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 4:17:31 AM	45844
Surr: BFB	104	73.8-119	%Rec	1	6/28/2019 4:17:31 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 4:17:31 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 4:17:31 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 4:17:31 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 4:17:31 AM	45844
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	6/28/2019 4:17:31 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP13

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-013
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/30/2019 9:55:45 PM 45920 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 12 9.6 mg/Kg 6/29/2019 8:39:17 AM 45871 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 6/29/2019 8:39:17 AM 45871 Surr: DNOP 82.5 %Rec 6/29/2019 8:39:17 AM 70-130 45871 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND Gasoline Range Organics (GRO) 6/28/2019 4:40:27 AM 45844 49 mg/Kg 1 Surr: BFB 105 73.8-119 %Rec 6/28/2019 4:40:27 AM 45844 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 6/28/2019 4:40:27 AM 45844 mg/Kg 1 Toluene ND 0.049 mg/Kg 6/28/2019 4:40:27 AM 45844 Ethylbenzene ND 0.049 mg/Kg 1 6/28/2019 4:40:27 AM 45844 Xylenes, Total ND 0.099 mg/Kg 6/28/2019 4:40:27 AM 45844 6/28/2019 4:40:27 AM Surr: 4-Bromofluorobenzene 96.6 80-120 %Rec 45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP14

Project: Longview Federal 12 2H Collection Date: 6/25/2019 11:30:00 AM

Lab ID: 1906E39-014 **Matrix:** SOIL **Received Date:** 6/26/2019 8:45:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	59	mg/Kg	20	6/30/2019 10:08:10 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/29/2019 9:03:24 AM	45871
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/29/2019 9:03:24 AM	45871
Surr: DNOP	81.1	70-130	%Rec	1	6/29/2019 9:03:24 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 5:03:16 AM	45844
Surr: BFB	107	73.8-119	%Rec	1	6/28/2019 5:03:16 AM	45844
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	6/28/2019 5:03:16 AM	45844
Toluene	ND	0.050	mg/Kg	1	6/28/2019 5:03:16 AM	45844
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 5:03:16 AM	45844
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 5:03:16 AM	45844
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	6/28/2019 5:03:16 AM	45844

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP15

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-015
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 61 60 mg/Kg 20 6/30/2019 10:20:35 PM 45920 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.5 mg/Kg 6/29/2019 9:27:29 AM 45871 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 6/29/2019 9:27:29 AM 45871 Surr: DNOP 90.8 %Rec 6/29/2019 9:27:29 AM 70-130 45871 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 6/28/2019 6:26:37 PM Gasoline Range Organics (GRO) ND 45847 49 mg/Kg 1 Surr: BFB 91.4 73.8-119 %Rec 6/28/2019 6:26:37 PM 45847 Analyst: RAA **EPA METHOD 8021B: VOLATILES** ND Benzene 0.025 6/28/2019 6:26:37 PM 45847 mg/Kg 1 Toluene ND 0.049 mg/Kg 6/28/2019 6:26:37 PM 45847 Ethylbenzene ND 0.049 mg/Kg 1 6/28/2019 6:26:37 PM 45847 Xylenes, Total ND 0.099 mg/Kg 6/28/2019 6:26:37 PM 45847 Surr: 4-Bromofluorobenzene 97.2 45847 80-120 %Rec 6/28/2019 6:26:37 PM

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP16

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-016
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/30/2019 10:33:00 PM 45920 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 29 9.2 mg/Kg 6/29/2019 9:51:34 AM 45871 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 6/29/2019 9:51:34 AM 45871 Surr: DNOP 83.6 %Rec 6/29/2019 9:51:34 AM 70-130 45871 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA ND 6/28/2019 7:37:47 PM Gasoline Range Organics (GRO) 5.0 45847 mg/Kg 1 Surr: BFB 87.5 73.8-119 %Rec 6/28/2019 7:37:47 PM 45847 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND Benzene 0.025 6/28/2019 7:37:47 PM 45847 mg/Kg 1 Toluene ND 0.050 mg/Kg 6/28/2019 7:37:47 PM 45847 Ethylbenzene ND 0.050 mg/Kg 1 6/28/2019 7:37:47 PM 45847 Xylenes, Total ND 0.10 mg/Kg 6/28/2019 7:37:47 PM 45847 Surr: 4-Bromofluorobenzene 45847 93.4 80-120 %Rec 6/28/2019 7:37:47 PM

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: FP17

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-017
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 60 mg/Kg 20 6/30/2019 10:45:24 PM 45920 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 15 9.4 mg/Kg 6/29/2019 10:17:00 AM 45871 Motor Oil Range Organics (MRO) ND 6/29/2019 10:17:00 AM 45871 47 mg/Kg 1 Surr: DNOP 91.9 %Rec 6/29/2019 10:17:00 AM 45871 70-130 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 6/28/2019 8:48:14 PM 45847 Gasoline Range Organics (GRO) ND 49 mg/Kg 1 Surr: BFB 88.3 73.8-119 %Rec 6/28/2019 8:48:14 PM 45847 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND Benzene 0.025 6/28/2019 8:48:14 PM 45847 mg/Kg 1 Toluene ND 0.049 mg/Kg 6/28/2019 8:48:14 PM 45847 Ethylbenzene ND 0.049 mg/Kg 1 6/28/2019 8:48:14 PM 45847 Xylenes, Total ND 0.099 mg/Kg 6/28/2019 8:48:14 PM 45847 Surr: 4-Bromofluorobenzene 95.0 6/28/2019 8:48:14 PM 45847 80-120 %Rec

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: SW1

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-018
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 10:57:49 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/29/2019 10:41:05 AM	45871
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/29/2019 10:41:05 AM	45871
Surr: DNOP	85.9	70-130	%Rec	1	6/29/2019 10:41:05 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/28/2019 9:11:36 PM	45847
Surr: BFB	85.0	73.8-119	%Rec	1	6/28/2019 9:11:36 PM	45847
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	6/28/2019 9:11:36 PM	45847
Toluene	ND	0.049	mg/Kg	1	6/28/2019 9:11:36 PM	45847
Ethylbenzene	ND	0.049	mg/Kg	1	6/28/2019 9:11:36 PM	45847
Xylenes, Total	ND	0.099	mg/Kg	1	6/28/2019 9:11:36 PM	45847
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	6/28/2019 9:11:36 PM	45847

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: SW2

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-019
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/30/2019 11:10:13 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/29/2019 11:05:18 AM	45871
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/29/2019 11:05:18 AM	45871
Surr: DNOP	78.4	70-130	%Rec	1	6/29/2019 11:05:18 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/28/2019 9:35:02 PM	45847
Surr: BFB	85.5	73.8-119	%Rec	1	6/28/2019 9:35:02 PM	45847
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	6/28/2019 9:35:02 PM	45847
Toluene	ND	0.049	mg/Kg	1	6/28/2019 9:35:02 PM	45847
Ethylbenzene	ND	0.049	mg/Kg	1	6/28/2019 9:35:02 PM	45847
Xylenes, Total	ND	0.099	mg/Kg	1	6/28/2019 9:35:02 PM	45847
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	6/28/2019 9:35:02 PM	45847

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: SW3

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-020
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/30/2019 11:47:28 PM	45920
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/29/2019 11:29:41 AM	45871
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/29/2019 11:29:41 AM	45871
Surr: DNOP	79.8	70-130	%Rec	1	6/29/2019 11:29:41 AM	45871
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 9:58:33 PM	45847
Surr: BFB	85.2	73.8-119	%Rec	1	6/28/2019 9:58:33 PM	45847
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	6/28/2019 9:58:33 PM	45847
Toluene	ND	0.050	mg/Kg	1	6/28/2019 9:58:33 PM	45847
Ethylbenzene	ND	0.050	mg/Kg	1	6/28/2019 9:58:33 PM	45847
Xylenes, Total	ND	0.10	mg/Kg	1	6/28/2019 9:58:33 PM	45847
Surr: 4-Bromofluorobenzene	91.1	80-120	%Rec	1	6/28/2019 9:58:33 PM	45847

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Date Reported:

CLIENT: WPX Energy **Client Sample ID: SW4**

Collection Date: 6/25/2019 11:30:00 AM **Project:** Longview Federal 12 2H 1906E39-021 Matrix: SOIL **Received Date:** 6/26/2019 8:45:00 AM Lab ID:

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	60		mg/Kg	20	7/1/2019 12:19:22 PM	45930
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/29/2019 9:12:51 PM	45906
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/29/2019 9:12:51 PM	45906
Surr: DNOP	37.0	70-130	S	%Rec	1	6/29/2019 9:12:51 PM	45906
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/28/2019 10:22:20 PM	45847
Surr: BFB	91.1	73.8-119		%Rec	1	6/28/2019 10:22:20 PM	45847
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	6/28/2019 10:22:20 PM	45847
Toluene	ND	0.049		mg/Kg	1	6/28/2019 10:22:20 PM	45847
Ethylbenzene	ND	0.049		mg/Kg	1	6/28/2019 10:22:20 PM	45847
Xylenes, Total	ND	0.097		mg/Kg	1	6/28/2019 10:22:20 PM	45847
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	6/28/2019 10:22:20 PM	45847

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported:

CLIENT: WPX Energy Client Sample ID: SW5

 Project:
 Longview Federal 12 2H
 Collection Date: 6/25/2019 11:30:00 AM

 Lab ID:
 1906E39-022
 Matrix: SOIL
 Received Date: 6/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	smb
Chloride	ND	60		mg/Kg	20	7/1/2019 12:31:47 PM	45930
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/29/2019 10:26:46 PM	45906
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/29/2019 10:26:46 PM	45906
Surr: DNOP	52.7	70-130	S	%Rec	1	6/29/2019 10:26:46 PM	45906
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/28/2019 11:33:44 PM	45847
Surr: BFB	84.7	73.8-119		%Rec	1	6/28/2019 11:33:44 PM	45847
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.025		mg/Kg	1	6/28/2019 11:33:44 PM	45847
Toluene	ND	0.050		mg/Kg	1	6/28/2019 11:33:44 PM	45847
Ethylbenzene	ND	0.050		mg/Kg	1	6/28/2019 11:33:44 PM	45847
Xylenes, Total	ND	0.10		mg/Kg	1	6/28/2019 11:33:44 PM	45847
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	6/28/2019 11:33:44 PM	45847

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

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Appendix D: Site Photographs



Appendix D:

Site Photos

Impacted Area

June 10, 2019





Impacted Area June 10, 2019





Impacted Area June 10, 2019





Impacted Area June 10, 2019





















Site Following Backfill July 17, 2019





Site Following Backfill July 17, 2019

