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	NRM2014147987
District RP	
Facility ID	
Application ID	_

Release Notification

Responsible Party

			Nes	honsi	ible Falty	y
Responsible	Party: WPX	Energy Permian,	LLC.		OGRID: 2	246289
Contact Name: Lynda Laumbach		Contact Te	elephone: (575) 725-1647			
Contact ema	il: Lynda.La	umbach@wpxene	ergy.com		Incident #	(assigned by OCD)
Contact mail	ing address:	5315 Buena Vista	a Drive, Carlsbad	, NM 8	8220	
			Location	ı of R	Release So	ource
Latitude3	2.09264				Longitude _	
			(NAD 83 in d	ecimal de	egrees to 5 decin	mal places)
Site Name: N	orth Brushy	Draw Federal 35	#002H		Site Type:	Production Facility
Date Release	Discovered	: 05/14/2020			API# (if app	plicable): 30-015-40006
Unit Letter	Section	Township	Range		Coun	ntv
A	35	25S	29E	Edd		inty
Surface Owner	r: State	X Federal T	ribal 🔲 Private ((Name:)
			Nature an	d Vo	lume of I	Release
	Mataria	1(-) D -1 1 (C -14 -	11 41 -41 4 -44	111	٠:	indifference Configuration and the Land
Crude Oi		Volume Release		n caicuia	tions or specific	v justification for the volumes provided below) Volume Recovered (bbls)
X Produced	Water	Volume Release	ed (bbls): 30			Volume Recovered (bbls): 10
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	☐ Yes ☐ No
Condensa	ite	Volume Release				Volume Recovered (bbls)
Natural G	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (de	escribe)	Volume/Weight	Released (provid	de units)	Volume/Weight Recovered (provide units)
Cause of Rel						
At 16:00 hou	ırs, water tra	nsfer polyline fail	ed outside of con	tainmer	nt and release	ed produced water onto the northeast side of the pad.
		bbl estimate =	$= \frac{saturated\ soil}{4.21(\frac{bbl\ e}{bbl\ e})}$	l volun ft³ quival	$\frac{ne\ (ft^3)}{ent}$ * es	stimated soil porosity(%)

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	00 3
Incident ID	NRM2014147987
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	Quantity was greater than 25bbls	
19.15.29.7(A) NMAC?		
X Yes No		
Z 100		
		whom? When and by what means (phone, email, etc)? Notification
was given by email on 05	1/15/2020 to Mike Bratcher, Jim Griswold, G	Christina Venegas, and Robert Hamlet.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
, , ,		
X The source of the rele	ease has been stopped.	
l <u> </u>		the environment.
 ☑ The impacted area has been secured to protect human health and the environment. ☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. 		
	ecoverable materials have been removed and	-
If all the actions described	d above have <u>not</u> been undertaken, explain v	vny:
		emediation immediately after discovery of a release. If remediation
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
within a lined containmer	it area (see 19.15.29.11(A)(5)(a) NMAC), p	lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Lyn	da Laumbach	Title: Environmental Specialist
		Title
Signature:	Sombach	Date: 05/19/2020
email: Lynda.Laumbac		Telephone: (575)725-1647
		F
OCD Only		
Received by: Ramon	a Marcus	Date:5/20/2020

Page 3 of 89

Incident ID	NRM2014147987
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	X Yes No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	X Yes No	
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characteristics Depart Charlist Food of the following items must be included in the arrest		

Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 11/12/2020 6:08:06 PM State of New Mexico
Page 4 Oil Conservation Division

Page 4	t of 89

Incident ID	NRM201414798	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Lynda Laumbach	Title: Environmental Specialist	
Signature: Junda Sambach	Date: 11/12/2020	
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647	
	· ————————————————————————————————————	
OCD Only		
Received by:	Date:	

Page 5 of 89 Incident ID NRM2014147987 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation point X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.1 X Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be com-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lates.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Lynda Laumbach	Title: Environmental Specialist
Printed Name: Lynda Laumbach Signature: Jynda Jambach	Date:11/12/2020
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	
Received by:	Date:
Approved	Approval Denied Deferral Approved
Signature:	Date:

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	NRM2020657799
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.				OGRID: 246289				
Contact Name: Jim Raley				Contact Telephone: 575-689-7597				
Contact ema	Contact email: james.raley@wpxenergy.com				Incident # (assigned by OCD)			
Contact mail 88220	ing address:	5315 Buena Vista	a Dr., Carlsbad, N	M				
			T (*	6.5		7		
			Location	of k	Kelease S	Source		
Latitude 32.0	9270					-103.94731		
			(NAD 83 in de	cimal de	egrees to 5 deci	imal places)		
Site Name: N	ORTH BRU	JSHY DRAW FEI	DERAL 35 #009F	ł	Site Type:	:: Production Facility		
Date Release	Discovered:	: 7/13/2020			API# (if ap	pplicable): 30-015-42220		
				1				
Unit Letter	Section	Township	Range	F 1 1	Cou	unty		
A	35	25S	29E	Edd	У			
Cf O	🗆 64-4-	Federal T	.:11 D.::4-					
Surface Owne	I State	☑ rederar ☐ 11	iloai 🔲 Filvate					
			Nature and	d Vo	lume of	Release		
	Mataria	1(a) Palaggad (Salagt a	II that apply and attack		tions or specific	ic justification for the volumes provided below)		
Crude Oi		Volume Release		i calcula	nons of specific	Volume Recovered (bbls)		
Produced	Water	Volume Release	ed (bbls) 8			Volume Recovered (bbls) 0		
		Is the concentrate produced water	tion of dissolved o	hlorid	e in the	⊠ Yes □ No		
Condensa	ite	Volume Release				Volume Recovered (bbls)		
Natural G	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provid	e units	Volume/Weight Recovered (provide units)			
Cause of Release: Produced water transfer line developed leak, allowing approx. 8 bbls of produced water to impact soils along edge of pad.								
111	saturate	d soil volume (ft^3)	1 1		(0/)	10.1.415		
$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})}*\ estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$					covered fluids (bbl)			
1								

Received by OCD: 11/12/2020 6:08:06 PM
State of New Mexico
Page 2
Oil Conservation Division

P	ag	e	7	oj	f	8	9	

Incident ID	NRM2020657799
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the	responsible party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate n	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?
	Initi	al Response
The responsible	party must undertake the following actions im	nediately unless they could create a safety hazard that would result in injury
The source of the rela	ease has been stopped.	
The impacted area ha	as been secured to protect human heal	th and the environment.
Released materials ha	ave been contained via the use of bern	ns or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been remove	ved and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, ex	plain why:
Dor 10 15 20 9 D (4) NM	IAC the responsible party may comm	and remadiation immediately after discovery of a release. If remadiation
has begun, please attach	a narrative of actions to date. If ren	ence remediation immediately after discovery of a release. If remediation nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.
		to the best of my knowledge and understand that pursuant to OCD rules and
		use notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have
		e a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Tu e i i i report does not reneve die oper	and of responsionity for compitative with any other rederat, state, or rocar taws
Printed Name: Jim Raley	lis Pole e	Title: Environmental Specialist
Signature:	fin Roby	Date: 7/22/2020
email: james.raley@wpxc	energy.com	Telephone: 575-689-7597
		•
OCD Only		
Received by: Ramo	ona Marcus	Date: 7/24/2020
		

	Page 8 of 8	39
Incident ID	NRM2020657799	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	X Yes No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No
Are the lateral extents of the release within a 100-year floodplain?	X Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

	1
Characterization Report Checklist: Each of the following items must be included in the rep	port.
 ∑ Scaled site map showing impacted area, surface features, subsurface features, delineation p ∑ Field data ∑ Data table of soil contaminant concentration data ∑ Depth to water determination ∑ Determination of water sources and significant watercourses within ½-mile of the lateral ex ∑ Boring or excavation logs ☐ Photographs including date and GIS information ∑ Topographic/Aerial maps ∑ Laboratory data including chain of custody 	-

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 11/12/2020 6:08:06 PM State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	NRM202065779
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Lynda Laumbach	Title: Environmental Specialist					
Signature: Juda Sambach	Date: 11/12/2020					
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647					
OCD Only						
Received by:	Date:					

State of New Mexico

	Page 10 of	89
Incident ID	NRM2020657799	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 ∑ Detailed description of proposed remediation technique ∑ Scaled sitemap with GPS coordinates showing delineation points ∑ Estimated volume of material to be remediated ∑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ∑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Lynda Laumbach	Title: Environmental Specialist
Signature: Jundo Sambach	Date:11/12/2020
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date:



November 12, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: North Brushy Draw Federal 35 #002H, #009H Remediation Plan (NRM2014147987, NRM2020657799)

Mr. Bratcher,

This report summarizes the remediation activities and proposed plan for remediation and closure of the Incidents at the North Brushy Federal 35 #002H/#009H well pad (Site). The topographic map of the Site is provided as Figure 01. On May 14, 2020, a produced water line outside secondary lined containment cracked releasing 30 barrels (bbls) of produced water onto the pad surface. 10 bbls of produced water was recovered using a vacuum truck. On July 13, 2020, a produced water line from the North Brushy Draw Federal 35 #009H running along the eastern edge of the #002H pad failed at a heat-weld joint releasing 8 barrels (bbls) of produced water onto the pad surface with no bbls recovered.

Well Location: North Brushy Federal 35 #002H/ #009H

API #:30-015-42290, 30-015-42220

NMOCD Reference #: NRM2014147987, NRM2020657799

Site Location Description: Unit Letter A, Section 35, Township 25S, Range 29E

Release Latitude/Longitude: N32.0927, W103.94731

Land Jurisdiction: Federal

Estimated Depth to Groundwater: >100 feet

NMOCD Site Characterization Standards

The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). The Site is located within 300 feet of an OSE waterbody and is set within an approximated 100 Year flood plain. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 600 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 100 mg/kg Total Petroleum Hydrocarbons (TPH)

Field Activities

On May 15, 2020, WPX personnel were onsite to confirm the release extent and collect initial samples SS01-SS03. The area of interest is located on Figure 02. On May 20, 2020 WPX personnel were onsite to collect delineation samples DS01-DS07 outside of the release area. The area was scraped to address any areas with crusted salts.

During the week of July 13 through 17, 2020 a consultant was utilized to excavate and collect samples after incident #: NRM2020657799 occurred. Composite samples of the excavation were collected on July 17, 2020.

Sampling Activities

Floor and sidewall samples were collected via 5-point composite sampling over areas no greater than 200 square feet across the excavation area. Discrete samples were taken to delineate the area outside of the release extent. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to chain of custodies of Hall and Xenco Laboratories. Samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Laboratory Analytical Results

The laboratory analytical results for the current excavation of impacted soils confirmed that floor sample BS20-04 was above the Standard threshold for chlorides. The sample locations are depicted in Figure 03. Discrete delineation samples outline the release area of Incident #: NRM2014147987 and results confirmed that only DS07 showed elevated chlorides. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 01.

- Chloride analysis ranged from below the Laboratory detectable limit to 17,200 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH analysis was below the Laboratory detectable limit

Proposed Workplan

The current volume of contaminated soil excavated is equivalent to 200 cubic yards. WPX plans on excavating another 1,200 cubic yards to address the release on the Site surface to total 1,400 cubic yards. Proposed excavation area is outlined in Figure 04. This number is contingent on an average depth of four feet with contamination greater than 600 mg/kg chlorides. Confirmation samples will be taken around DS07 to show compliance with Site remediation standards. All samples will be analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B. All contaminated soil will be hauled to disposal at R-360 Red Bluff Facility, 5053 US Hwy 285, Orla, TX 79770.

Proposed Schedule

WPX plans to start this project as soon as this remediation plan is approved. Once started, the project, including excavation, sampling, backfill, and report will be completed by February 8, 2020. If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

Best regards,

Lynda Laumbach

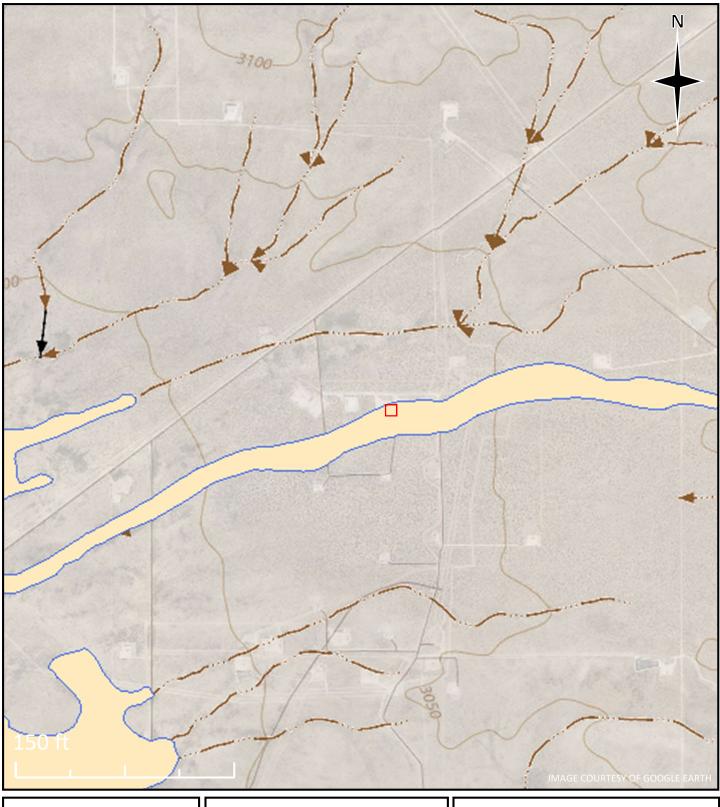
Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

Figure 01 Topography
Figure 02 Field Map and Delineation Samples
Figure 03 Excavation
Figure 04 Remediation Plan
Table 01
Attachment 01 Analytical Results

Figures





Legend

Site

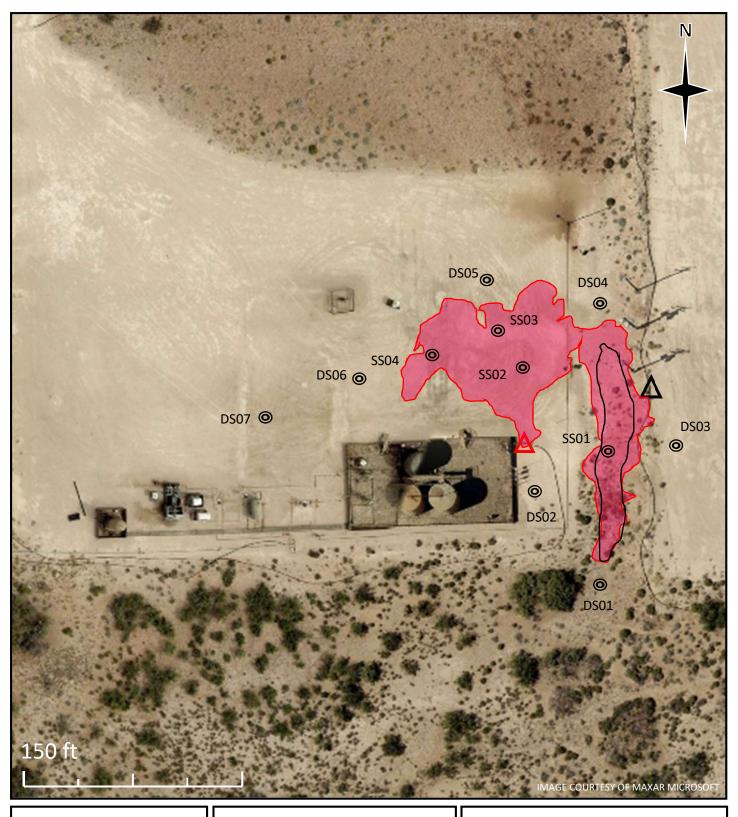
— USGS National Hydrology Set

100=year Flood Plain

Figure 01 North Brushy Draw Federal 35 #002

Permian Basin, Eddy County, NM

Date: 11/12/2020





Legend

Samples

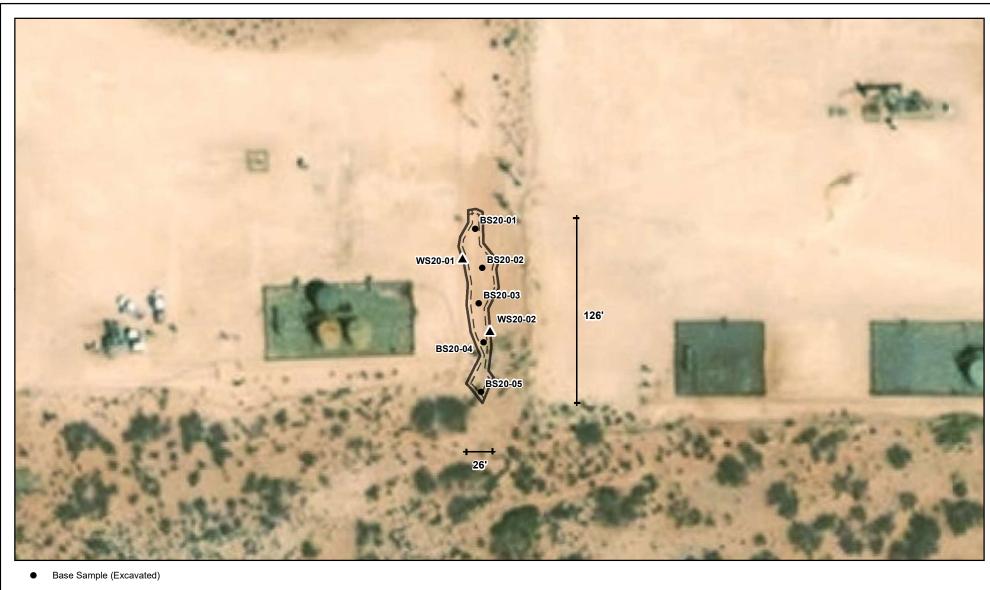
■ NRM2014147987 (△)

□ NRM2020657799 (Δ)

Figure 02 North Brushy Draw Federal 35 #002

Permian Basin, Eddy County, NM

Date: 11/12/2020



Wall Sample

Excavation (~ 1,736 sq. ft.)



Map Center: Lat/Long: 32.092418, -103.948084

NAD 1983 UTM Zone 13N Date: Aug 04/20

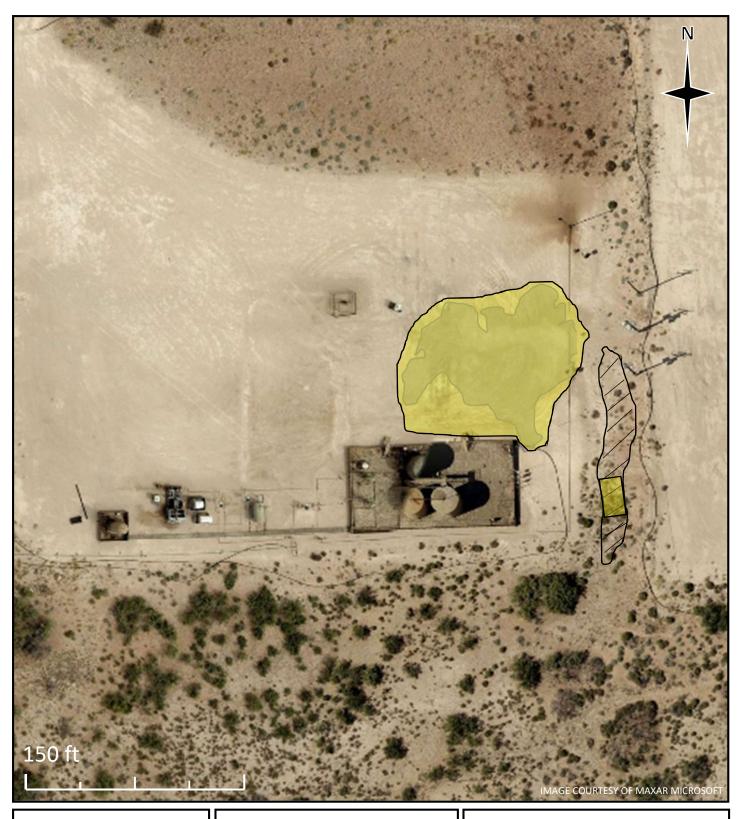


Confirmatory Schematic North Brushy Draw Fed 35-9H FIGURE:



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020.





Legend

- Samples
- Remediation Proposal (6,940ft²)
- ☐ Current Excavation (1,740ft²)

Figure 04 North Brushy Draw Federal 35 #002

Permian Basin, Eddy County, NM

Date: 11/12/2020

Table(s)

TABLE 01 **SOIL SAMPLE ANALYTICAL RESULTS**



NORTH BRUSHY DRAW FEDERAL 35 #002 & #009 NMOCD REFERENCE NUMBER: NRM2014147987, NRM202065779

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	5/15/2020	<0.0198	<0.0198	<49.8	<49.8	<49.8	-	-	14200.0
SS02	0.5	5/15/2020	<0.0198	<0.0198	<49.8	<49.8	<49.8	-	-	17000.0
SS03	0.5	5/15/2020	<0.00201	<0.00201	<50.1	<50.1	<50.1	-	-	4020.0
SS04	0.5	5/15/2020	<0.00201	<0.00201	<49.8	<49.8	<49.8	-	-	5150.0
DS01	2	5/20/2020	-	-	-	-	-	-	-	<9.94
DS01A	4	5/20/2020	-	-	-	-	-	-	-	17.9
DS02	2	5/20/2020	-	-	-	-	-	-	-	31.0
DS02A	4	5/20/2020	-	-	-	-	-	-	-	15.6
DS03	2	5/20/2020	-	-	-	-	-	-	-	392.0
DS03A	4	5/20/2020	-	-	-	-	-	-	-	81.6
DS04	2	5/20/2020	-	-	-	-	-	-	-	92.2
DS05	2	5/20/2020	-	-	-	-	-	-	-	318.0
DS06	2	5/20/2020	-	-	-	-	-	-	-	105.0
DS07	1	5/20/2020	-	-	-	-	-	-	-	668.0
DS07A	2	5/20/2020	-	-	-	-	-	-	-	220.0
BS20-01	2	7/17/2020	<0.023	-	<4.6	<9.3	<46.0	-	-	69.0
BS20-02	2	7/17/2020	<0.024	-	<4.7	<9.7	<48	-	-	170.0
BS20-03	2	7/17/2020	<0.023	-	<4.6	<9.8	<49	-	-	94.0
BS20-04	2	7/17/2020	<0.025	-	<4.9	<9.4	<47	-	-	1000.0
BS20-05	4	7/17/2020	<0.024	-	<4.8	<9.7	<49	-	-	190.0
WS20-01	-	7/17/2020	<0.024	-	<4.8	<9.5	<48	-	-	600.0
WS20-02	-	7/17/2020	<0.024	-	<4.7	<9.6	<48	-	-	<60.0
NMOCD Table 1	Closure C	riteria	10	50	NE	NE	NE	NE	100	600.0

Reference: BTEX: benzene, toluene, ethylbenzene, and total xylenes

GRO: gasoline range organics

DRO: diesel range organics

ft bgs: feet below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

TPH: total petroleum hydrocarbons

NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization

Attachment 01



Certificate of Analysis Summary 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw Federal 35#002

Project Id: 05152020

Contact:

Project Location:

Lynda Laumbach

Date Received in Lab: Fri 05.15.2020 16:15

Report Date: 05.19.2020 09:59

Project Manager: Jessica Kramer

	1 1					1	1	
	Lab Id:	661807-001		661807-0	02			
Analysis Requested	Field Id:	SS01		SS02				
Thatysis Requesica	Depth:			0.5- ft				
	Matrix:	SOIL		SOIL				
	Sampled:	05.15.2020 13	:00	05.15.2020	13:10			
BTEX by EPA 8021B	Extracted:	05.18.2020 12	:01	05.18.2020	12:01			
	Analyzed:	05.18.2020 17	:50	05.18.2020	18:11			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		<0.00198 0.	.00198	< 0.00198	0.00198			
Toluene		<0.00198 0.	.00198	< 0.00198	0.00198			
Ethylbenzene		<0.00198 0.	.00198	< 0.00198	0.00198			
m,p-Xylenes			.00396		0.00397			
o-Xylene	p-Xylene		.00198		0.00198			
Total Xylenes		<0.00198 0.	.00198	< 0.00198	0.00198			
Total BTEX		<0.00198 0.	.00198	< 0.00198	0.00198			
Chloride by EPA 300	Extracted:	05.15.2020 17	:17	05.15.2020	17:17			
	Analyzed:	05.15.2020 23	:34	05.15.2020	23:40			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		14200	201	17000	501			
TPH By SW8015 Mod	Extracted:	05.15.2020 17	:45	05.15.2020	17:45			
	Analyzed:	05.16.2020 08	:06	05.16.2020	08:27			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8			
Diesel Range Organics (DRO)		<49.8	<49.8 49.8		49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8			
Total TPH		<49.8	49.8	<49.8	49.8			
TOTAL TELL		<49.8	49.8	<49.8	49.8			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer



Analytical Report 661807

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

North Brushy Draw Federal 35#002 05152020 05.19.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.19.2020

Project Manager: Lynda Laumbach WPX Energy Permian Basin, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Reference: XENCO Report No(s): 661807

North Brushy Draw Federal 35#002

Project Address:

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661807. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661807 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35#002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id		
SS01	S	05.15.2020 13:00	0.5 ft	661807-001		
SS02	S	05.15.2020 13:10	0.5 ft	661807-002		

Page 26 of 89

CASE NARRATIVE

XENCO

Client Name: WPX Energy Permian Basin, LLC Project Name: North Brushy Draw Federal 35#002

 Project ID:
 05152020
 Report Date:
 05.19.2020

 Work Order Number(s):
 661807
 Date Received:
 05.15.2020

Sample receipt non conformances and comments:
Sample receipt non conformances and comments per sample:

Date Received:05.15.2020 16:15



Certificate of Analytical Results 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35#002

Sample Id: SS01 Matrix: Soil

Lab Sample Id: 661807-001 Date Collected: 05.15.2020 13:00 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.15.2020 17:17 Basis: Wet Weight

Seq Number: 3126180

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 14200
 201
 mg/kg
 05.15.2020 23:34
 20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 05.15.2020 17:45 Basis: Wet Weight

Seq Number: 3126213

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.16.2020 08:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.16.2020 08:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.16.2020 08:06	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.16.2020 08:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	113	%	70-135	05.16.2020 08:06
o-Terphenyl	84-15-1	125	%	70-135	05.16.2020 08:06



Certificate of Analytical Results 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35#002

Sample Id: SS01 Matrix: Soil Date Received:05.15.2020 16:15

Lab Sample Id: 661807-001 Date Collected: 05.15.2020 13:00 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.18.2020 12:01 Basis: Wet Weight

Seq Number: 3126318

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	05.18.2020 17:50	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.18.2020 17:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.18.2020 17:50		
1,4-Difluorobenzene		540-36-3	107	%	70-130	05.18.2020 17:50		



Certificate of Analytical Results 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35#002

Sample Id: SS02 Matrix: Soil

Date Received:05.15.2020 16:15

Lab Sample Id: 661807-002 Date Collected: 05.15.2020 13:10

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.15.2020 17:17

Basis: W

70-135

Wet Weight

Seq Number: 3126180

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17000	501	mg/kg	05.15.2020 23:40		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

05.16.2020 08:27

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 05.15.2020 17:45

Basis: Wet Weight

Seq Number: 3126213

o-Terphenyl

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.16.2020 08:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.16.2020 08:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.16.2020 08:27	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.16.2020 08:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	05.16.2020 08:27		

116

84-15-1



Certificate of Analytical Results 661807

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35#002

Sample Id: SS02 Matrix: Soil Date Received:05.15.2020 16:15

Lab Sample Id: 661807-002 Date Collected: 05.15.2020 13:10 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.18.2020 12:01 Basis: Wet Weight

Seq Number: 3126318

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	05.18.2020 18:11	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.18.2020 18:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	05.18.2020 18:11		
4-Bromofluorobenzene		460-00-4	95	%	70-130	05.18.2020 18:11		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 661807



WPX Energy Permian Basin, LLC

North Brushy Draw Federal 35#002

Analytical Method: Chloride by EPA 300

3126180

LCSD

Result

247

7703457-1-BKS

E300P Prep Method: Date Prep: 05.15.2020

7703457-1-BLK MB Sample Id:

Matrix: Solid LCS Sample Id:

LCSD Sample Id: 7703457-1-BSD

Parameter

Seq Number:

MB Spike Result Amount

LCS LCS Result

Limits LCSD 99

RPD %RPD Limit 1

Units Analysis

Chloride

<10.0 250

%Rec 249 100 %Rec

90-110

mg/kg

Flag Date 05.15.2020 22:24

Analytical Method: Chloride by EPA 300

Seq Number:

3126180

Matrix: Soil

Prep Method: Date Prep:

20

E300P 05.15.2020

Parent Sample Id:

661758-006

MS Sample Id: 661758-006 S MSD Sample Id: 661758-006 SD

Parameter

Parent Result

MS MS Result %Rec

MSD MSD %Rec Result

Limits %RPD

RPD Units Limit

Analysis

Chloride

749

Amount 198 945

Spike

99

947

99 90-110

0 20 mg/kg

Flag Date 05.15.2020 22:41

Flag

Analytical Method: TPH By SW8015 Mod

Seq Number:

3126213

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 05.15.2020

MB Sample Id:

7703528-1-BLK

LCS Sample Id: 7703528-1-BKS

LCSD Sample Id: 7703528-1-BSD

MB Spike **RPD** LCS LCS %RPD Units LCSD LCSD Limits Analysis **Parameter** Result %Rec Limit Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 35 05.16.2020 05:40 < 50.0 1000 1060 106 991 99 70-135 7 mg/kg Diesel Range Organics (DRO) < 50.0 1000 1070 107 1140 70-135 6 35 05.16.2020 05:40 114 mg/kg

MB MB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag Flag %Rec Flag %Rec %Rec Date 120 05.16.2020 05:40 1-Chlorooctane 104 132 70-135 % o-Terphenyl 118 119 127 70-135 % 05.16.2020 05:40

Analytical Method: TPH By SW8015 Mod

Matrix: Solid

Prep Method:

SW8015P 05.15.2020

Seq Number:

3126213

MB Sample Id: 7703528-1-BLK

Date Prep:

Parameter

MB

Units

Analysis Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

Result < 50.0

mg/kg

mg/kg

Date 05.16.2020 05:19

Analytical Method: TPH By SW8015 Mod

Seq Number:

3126213

118

Prep Method: Date Prep: SW8015P

1170

Matrix: Soil

05.15.2020

Parent Sample Id:

661755-017

MS Sample Id: 661755-017 S MSD Sample Id: 661755-017 SD

35

Spike MS Parent **Parameter** Result Amount Result

< 50.2 1000 Diesel Range Organics (DRO) < 50.2 1000

70-135

05.16.2020 06:42

MS %RPD RPD MSD MSD Limits Units Analysis Limit %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 05.16.2020 06:42 1040 104 1030 35 103 70-135 1 mg/kg

117

1180

MS MS **MSD** Units Analysis MSD Limits **Surrogate** Flag Date %Rec Flag %Rec 05.16.2020 06:42 1-Chlorooctane 130 126 70-135 % 05.16.2020 06:42 o-Terphenyl 132 132 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

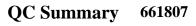
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

1

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec 4-Bromofluorobenzene

Flag





WPX Energy Permian Basin, LLC

North Brushy Draw Federal 35#002

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method: 3126318 Seq Number: Matrix: Solid Date Prep: 05.18.2020 LCS Sample Id: 7703446-1-BKS MB Sample Id: 7703446-1-BLK LCSD Sample Id: 7703446-1-BSD

•												
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.107	107	0.102	102	70-130	5	35	mg/kg	05.18.2020 14:06	
Toluene	< 0.00200	0.100	0.102	102	0.0986	99	70-130	3	35	mg/kg	05.18.2020 14:06	
Ethylbenzene	< 0.00200	0.100	0.0961	96	0.0932	93	71-129	3	35	mg/kg	05.18.2020 14:06	
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.192	96	70-135	3	35	mg/kg	05.18.2020 14:06	
o-Xylene	< 0.00200	0.100	0.0988	99	0.0963	96	71-133	3	35	mg/kg	05.18.2020 14:06	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	110		1	03		104		70)-130	%	05.18.2020 14:06	
4-Bromofluorobenzene	98		Ç	93		94		70)-130	%	05.18.2020 14:06	

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method:

98

Seq Number: 3126318 Matrix: Soil Date Prep: 05.18.2020 MS Sample Id: 661755-014 S MSD Sample Id: 661755-014 SD Parent Sample Id: 661755-014

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	1
Benzene	< 0.00200	0.0998	0.108	108	0.0937	94	70-130	14	35	mg/kg	05.18.2020 14:47	
Toluene	< 0.00200	0.0998	0.104	104	0.0891	90	70-130	15	35	mg/kg	05.18.2020 14:47	
Ethylbenzene	< 0.00200	0.0998	0.0959	96	0.0822	83	71-129	15	35	mg/kg	05.18.2020 14:47	
m,p-Xylenes	< 0.00399	0.200	0.198	99	0.169	85	70-135	16	35	mg/kg	05.18.2020 14:47	
o-Xylene	< 0.00200	0.0998	0.0989	99	0.0854	86	71-133	15	35	mg/kg	05.18.2020 14:47	

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
104		105		70-130	%	05.18.2020 14:47
95		97		70-130	%	05.18.2020 14:47
	104	%Rec Flag 104	%Rec Flag %Rec 104 105	%Rec Flag %Rec Flag 104 105	%Rec Flag %Rec Flag 104 105 70-130	%Rec Flag %Rec Flag 104 105 70-130 %

70-130

Page 34 of 89

City, State ZIP:

Project Manager: Company Name: Address:

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Carlsbad, NM 88220 5315 Buena Vista Dr WPX Enery Permian, LLC (575)725-1647 Lynda Laumbach Email: Lynda.Laumbach@wpxenergy.com Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 City, State ZIP: Bill to: (if different) Address: Company Name: Carlsbad, NM 88220 5315 Buena Vista Dr WPX Energy Permian, LLC. Lynda Laumbach Atlanta, GA (770) 449-8800 Deliverables: EDD Reporting:Level II Level III State of Project: Program: UST/PST PRP rownfields RC Work Order No: www.xenco.com Work Order Comments ADaPT □ST/UST

The Lynda Laumbach Lynda Laumbach ECEIPT Temp Blank: Vey No It: Ves No Ves (No) N/A Correction Factor: Sy Seals: Yes (No) N/A Temperature Reading: Sy Seals: Yes (No) N/A Temperature Reading: Sy Seals: Yes (No) N/A Temperature: Sy Seals: Yes (No) N/A Temperature Reading: Sy Seals: Yes (No) N/A Temperature: Sy	Lynda Laumbach Tamp Blank: Veg No Wet loe: Veg No Ves (No) N/A Correction Factor: Yes (No) N/A Temperature Reading: 3.2 Corrected Temperature: 3.4 Control Comp Control Sampled Sampled Comp Control S S//S/2-2-3 /3:1-2-2 0.5' C / X X S S//S/2-2-3 /3:1-2-2 0.5' C / X X S S//S/2-2-3 /3:1-2-2 0.5' C / X X S S//S/2-2-3 /3:1-2-2 0.5' C / X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X X S S//S/2-3-3 /3:1-2-2 0.5' C / X X X X X X X X X X X X X X X X X X	Lynda Laumbach Lynda Laumbach Tart starts the day received by 4:30pm Thermometer ID: Yes (No) N/A Temperature Reading: Sampled	Project Name: North E	Brushy Draw Federal 35 #002			ANIAI VOIS DECLIE	10.	
Lynda Laumbach Tat starts the day received by 4:30pm the lab, if received by 4:30pm Wes (No) N/A Correction Factor: Yes (No) N/A Temperature Reading: Yes (No) N/A Temperature Reading: Sol/S/202 /3:55 0.5' Sol/S/202 /3:55 0.5' Sol/S/202 /3:55 0.5' Lynda Laumbach Tat starts the day received by 4:30pm the lab, if received by 4:30pm the lab	Lynda Laumbach Lynda Laumbach Lynda Laumbach Lynda Laumbach Tat starts the day received by 4:30pm The lab, if received by	Lynda Laumbach		North Brushy Draw Federal 35 #002	Tr. Turn A	Pres.	ANALYSIS REQUEST	TS	
Lynda Laumbach Lynda Laumbach TAT starts the day received by the lab, if received by 4:30pm Thermometer ID: Yes (No) N/A Correction Factor: Yes (No) N/A Temperature Reading: Yes (No) N/A Temperature Reading: Solf/5/2024 13:20 0.5' C	Lynda Laumbach Lynda Laumbach Tat starts the day received by the lab, if received by 4:30pm (Yes) No Thermometer ID: Yes (No) N/A Correction Factor: Yes (No) N/A Temperature Reading: Sampled Sampled Sampled Cont Cont Sampled Sampled Sampled Cont Sol/S/2v-2 13:100 0.5' G	Lynda Laumbach TAT starts the day received by 4:30pm the lab, if received by 4:30pm Yes (No) NIA Correction Factor: Yes (No) NIA Temperature Reading: Sampled Samp		15/52020		Code			
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s constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractival not assume any responsibility for any losses or expenses incurred by the client if such loss ject and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	: signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standa ice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumst co. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless pre		linquished by: (Signatu		ed by: (Signature)	Date/Time	Relinquished by: (Signature)	-	Received by: (Signature)
ce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard ervice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstance. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previous previo	is signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standatice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumst co. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless pre- ellinguished by: (Signature) Received by: (Signature) Recinculary of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumst co. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless pre-				He	SI:31 020/51/50	2		
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of.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 05.15.2020 04.15.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 661807

Analyst:

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

Must be completed for	after-hours deliver	v of samples prior to	nlacing in the	refrigerator
Must be completed for	aitei-ilouis delivei	V OI SAIIIDIES DI IOI K	J DIACILIA III LIIC	i eli idei albi

Observation and a standard and have	0,111	
Checklist completed by:		Date: 05.15.2020

PH Device/Lot#:

Elizabeth McClellan

Checklist reviewed by:

Jessica Kramer

Date: 05.18.2020

Received by OCD: 11/12/2020 6:08:06 PM XENCO LABORATORIES

Certificate of Analysis Summary 661808

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw Federal 35 #002

Project Id: 05152020

Contact:

Project Location:

Lynda Laumbach

Date Received in Lab: Fri 05.15.2020 16:15

Project Manager: Jessica Kramer

Report Date: 05.19.2020 10:00

	Lab Id:	661808-001	661808-002		
Analysis Roquested	Analysis Requested Field Id:		SS04		
Analysis Requesieu	Depth:	0.5- ft	0.5- ft		
	Matrix:	SOIL	SOIL		
	Sampled:	05.15.2020 13:20	05.15.2020 13:30		
BTEX by EPA 8021B	Extracted:	05.18.2020 12:01	05.18.2020 12:01		
	Analyzed:	05.18.2020 18:31	05.18.2020 18:52		
	Units/RL:	mg/kg RL	mg/kg RL		
Benzene		< 0.00201 0.0020	<0.00201 0.00201		
Toluene		<0.00201 0.0020	<0.00201 0.00201		
Ethylbenzene		< 0.00201 0.0020	< 0.00201 0.00201		
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402		
o-Xylene		<0.00201 0.0020	<0.00201 0.00201		
Total Xylenes		< 0.00201 0.00203	<0.00201 0.00201		
Total BTEX		<0.00201 0.00203	<0.00201 0.00201		
Chloride by EPA 300	Extracted:	05.15.2020 17:17	05.15.2020 17:17		
	Analyzed:	05.15.2020 23:46	05.15.2020 23:52		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		4020 101	5150 101		
TPH By SW8015 Mod	Extracted:	05.15.2020 17:45	05.15.2020 17:45		
	Analyzed:	05.16.2020 08:48	05.16.2020 09:09		
	Units/RL:	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.8 49.8		
Diesel Range Organics (DRO)		<50.1 50.3	<49.8 49.8		
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.3	<49.8 49.8		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

< 50.1

50.1

Jessica Vramer

Jessica Kramer Project Manager

<49.8

49.8

Total TPH



Analytical Report 661808

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

North Brushy Draw Federal 35 #002 05152020 05.19.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.19.2020

Project Manager: Lynda Laumbach WPX Energy Permian Basin, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Reference: XENCO Report No(s): 661808

North Brushy Draw Federal 35 #002

Project Address:

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661808. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661808 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 661808

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS03	S	05.15.2020 13:20	0.5 ft	661808-001
SS04	S	05.15.2020 13:30	0.5 ft	661808-002

Page 40 of 89

CASE NARRATIVE

Client Name: WPX Energy Permian Basin, LLC Project Name: North Brushy Draw Federal 35 #002

Project ID: Report Date: 05.19.2020 05152020 Work Order Number(s): 661808 Date Received: 05.15.2020

Sample receipt non conformances and comments:
Sample receipt non conformances and comments per sample:



SS03

Certificate of Analytical Results 661808

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Soil

Lab Sample Id: 661808-001 Date Collected: 05.15.2020 13:20 Sample Depth: 0.5 ft

Matrix:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Date Received:05.15.2020 16:15

MAB % Moisture: Tech:

> MAB Date Prep: 05.15.2020 17:17 Basis: Wet Weight

Seq Number: 3126180

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4020	101	mg/kg	05.15.2020 23:46		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

 DTH % Moisture: Tech:

Analyst: DTH Basis: Date Prep: 05.15.2020 17:45 Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	05.16.2020 08:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	05.16.2020 08:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	05.16.2020 08:48	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	05.16.2020 08:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	05.16.2020 08:48		



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: SS03 Matrix: Soil Date Received:05.15.2020 16:15

Lab Sample Id: 661808-001 Date Collected: 05.15.2020 13:20 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 05.18.2020 12:01 Basis: Wet Weight

Seq Number: 3126318

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.18.2020 18:31	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.18.2020 18:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.18.2020 18:31		

104

70-130

05.18.2020 18:31



SS04

Certificate of Analytical Results 661808

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Soil

Lab Sample Id: 661808-002 Date Collected: 05.15.2020 13:30 Sample Depth: 0.5 ft

Matrix:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Date Received:05.15.2020 16:15

MAB Tech:

MAB Analyst: Date Prep: 05.15.2020 17:17 Basis: Wet Weight

Seq Number: 3126180

Sample Id:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5150	101	mg/kg	05.15.2020 23:52		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

DTH % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 05.15.2020 17:45

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.16.2020 09:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.16.2020 09:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.16.2020 09:09	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.16.2020 09:09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	05 16 2020 09:09		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date]
1-Chlorooctane	111-85-3	114	%	70-135	05.16.2020 09:09	
o-Terphenyl	84-15-1	126	%	70-135	05.16.2020 09:09	



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: SS04 Matrix: Soil Date Received:05.15.2020 16:15

Lab Sample Id: 661808-002 Date Collected: 05.15.2020 13:30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.18.2020 12:01 Basis: Wet Weight

Parameter	Cas Number	r Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.18.2020 18:52	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.18.2020 18:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.18.2020 18:52		
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.18.2020 18:52		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

E300P

SW8015P

Flag

Flag

Prep Method:

QC Summary 661808



WPX Energy Permian Basin, LLC

North Brushy Draw Federal 35 #002

Analytical Method: Chloride by EPA 300 Prep Method:

Seq Number: 3126180 Matrix: Solid Date Prep: 05.15.2020 LCS Sample Id: 7703457-1-BKS 7703457-1-BLK LCSD Sample Id: 7703457-1-BSD MB Sample Id:

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 249 100 99 90-110 20 05.15.2020 22:24 247 1 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3126180 Matrix: Soil Date Prep: 05.15.2020 661758-006 MS Sample Id: 661758-006 S MSD Sample Id: 661758-006 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 05.15.2020 22:41 749 198 945 99 947 99 0 20

Chloride 90-110 mg/kg

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126213 Matrix: Solid Date Prep: 05.15.2020 LCS Sample Id: 7703528-1-BKS LCSD Sample Id: 7703528-1-BSD MB Sample Id: 7703528-1-BLK

MB Spike **RPD** LCS LCS %RPD Units LCSD LCSD Limits Analysis **Parameter** Result %Rec Limit Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 35 05.16.2020 05:40 < 50.0 1000 1060 106 991 99 70-135 7 mg/kg Diesel Range Organics (DRO) < 50.0 1000 1070 107 1140 70-135 6 35 05.16.2020 05:40 114 mg/kg

MB MB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag Flag %Rec Flag %Rec %Rec Date 120 05.16.2020 05:40 1-Chlorooctane 104 132 70-135 % o-Terphenyl 118 119 127 70-135 % 05.16.2020 05:40

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Seq Number: 3126213 Matrix: Solid Date Prep: 05.15.2020

MB Sample Id: 7703528-1-BLK

< 50.2

MB Units Analysis Flag **Parameter** Result Date 05.16.2020 05:19 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

Analytical Method: TPH By SW8015 Mod Prep Method:

1170

Seq Number: 3126213 Matrix: Soil Date Prep: 05.15.2020 MS Sample Id: 661755-017 S MSD Sample Id: 661755-017 SD Parent Sample Id: 661755-017

Spike MS MS %RPD RPD Parent MSD MSD Limits Units Analysis **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 05.16.2020 06:42 < 50.2 1000 1040 104 1030 35 103 70-135 1 mg/kg

1180

118

70-135

MS MS **MSD** Units Analysis MSD Limits **Surrogate** Flag Date %Rec Flag %Rec 05.16.2020 06:42 1-Chlorooctane 130 126 70-135 % 05.16.2020 06:42 o-Terphenyl 132 132 70-135 %

117

MS/MSD Percent Recovery [D] = 100*(C-A) / BLCS = Laboratory Control Sample RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Relative Percent Difference = Parent Result

1000

LCS/LCSD Recovery Log Diff. = Log(Sample Duplicate) - Log(Original Sample) Log Difference

= MS/LCS Result = MSD/LCSD Result

1

35

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

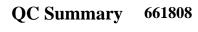
05.16.2020 06:42

SW8015P

mg/kg

Diesel Range Organics (DRO)

Flag





WPX Energy Permian Basin, LLC

North Brushy Draw Federal 35 #002

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method: Seq Number: 3126318 Matrix: Solid Date Prep: 05.18.2020 LCS Sample Id: 7703446-1-BKS MB Sample Id: 7703446-1-BLK LCSD Sample Id: 7703446-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.107	107	0.102	102	70-130	5	35	mg/kg	05.18.2020 14:06	
Toluene	< 0.00200	0.100	0.102	102	0.0986	99	70-130	3	35	mg/kg	05.18.2020 14:06	
Ethylbenzene	< 0.00200	0.100	0.0961	96	0.0932	93	71-129	3	35	mg/kg	05.18.2020 14:06	
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.192	96	70-135	3	35	mg/kg	05.18.2020 14:06	
o-Xylene	< 0.00200	0.100	0.0988	99	0.0963	96	71-133	3	35	mg/kg	05.18.2020 14:06	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	110		1	03		104		70)-130	%	05.18.2020 14:06	
4-Bromofluorobenzene	98		9	93		94		70)-130	%	05.18.2020 14:06	

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method:

Seq Number: 3126318 Matrix: Soil Date Prep: 05.18.2020 MS Sample Id: 661755-014 S MSD Sample Id: 661755-014 SD Parent Sample Id: 661755-014

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.0998	0.108	108	0.0937	94	70-130	14	35	mg/kg	05.18.2020 14:47
Toluene	< 0.00200	0.0998	0.104	104	0.0891	90	70-130	15	35	mg/kg	05.18.2020 14:47
Ethylbenzene	< 0.00200	0.0998	0.0959	96	0.0822	83	71-129	15	35	mg/kg	05.18.2020 14:47
m,p-Xylenes	< 0.00399	0.200	0.198	99	0.169	85	70-135	16	35	mg/kg	05.18.2020 14:47
o-Xylene	< 0.00200	0.0998	0.0989	99	0.0854	86	71-133	15	35	mg/kg	05.18.2020 14:47

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	05.18.2020 14:47
4-Bromofluorobenzene	95		97		70-130	%	05.18.2020 14:47

Received by OCD: 11/12/2020 6:08:06 PM		Page 48 o
Total 200.7 / Circle Metho lotice: Signature of th f service. Xenco will f Xenco. A minimum Relinquished	Project Manager: Company Name: Address: City, State ZIP: Phone: Project Name: Project Number: Project Number: Project Number: Company Name: Project Number: Project Number: Project Number: Sampler's Name: PO #: Sample Custody Signaple Custody Signaple Custody Signaple Icustody Signa	X

Chain of Custody

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Atlanta, GA (770) 449-8800

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200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ -Na Sr Tl Sn U V Zn e Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471 rature of this document and relinquishment of samples constitutes a valid purchase order from client company to xenco, its affiliates and subcontractors. It assigns standard terms and conditions Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control xenco, will be each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Received by: (Signature) Date/Time Received by: (Signature) Date/Time	Date/Time Relin	ure)	Received by: (Signature)		quished by: (Signature)
Se Ag SiO ₂					
Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂	ompany to Xenco, its affiliates and or expenses incurred by the client d to Xenco, but not analyzed. These	chase order from client or ponsibility for any losses for each sample submitte	nples constitutes a valid pur nd shall not assume any res project and a charge of \$5	ent and relinquishment of sam only for the cost of samples ar \$85.00 will be applied to each	ature of this docun (enco will be liable minimum charge o
Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI	Sb As Ba Be Cd Cr Co Cu Pb	TCLP / SPLP 6010: 8RCRA S		e Method(s) and Metal(s) to be analyzed	Method(s) ar
	Sb As Ba Be B Cd Ca	Texas 11 Al	8RCRA 13PPM	200.8 / 6020:	200.7 / 6010
				(
	XXX	0.5' 8 (:30 05/18/20	5 13:	S5\$ 4
	XXXXX	03' 6 1	3:50 35/15/20		5643
Sample Comments	B7 T1 Chi	Depth Grab/ # of Comp Cont	Date Time Sampled	Matrix	sample Identification
NaOH+Ascorbic Acid: SAPC	EX	80,000	Corrected Temperature:	2 Cor	ntainers:
Zn Acetate+NaOH: Zn	- \de	3.0	Temperature Reading:	Yes (NO) N/A Ten	Custody Seals:
Na ₂ S ₂ O ₃ ; NaSO ₃	8		Correction Factor:	Yes (No N/A Cor	ustody Seals:
NaHSO₄: NABIS	70	TMW007	Thermometer ID:	(Yes) No The	d Intact:
H₃PO₄: HP	11	Yes No	Yes No Wet Ice:	Temp Blank: (Ye	LE RECEIPT
H ₂ S0 ₄ : H ₂	5 'A;		the lab, if rece		
HCL: HC	-30	TAT starts the day received by	TAT starts the	Lynda Laumbach	's Name:
Cool: Cool	07,6	25/22	Due Date:		ocation
None: NO		□Rush Code	ARoutine	05152023	lumber:
ANALYSIS REQUEST Preservative Codes		Turn Around		North Brushy Draw Federal 35 #002	Vame:
Deliverables: EDD ADaPT Other:	wpxenergy.com	Email: Lynda.Laumbach@wpxenergy.com	Email:	(575)725-1647	(57
Reporting:Level II Level III ST/UST RP	Carlsbad, NM 88220	City, State ZIP:		Carlsbad, NM 88220	te ZIP: Ca
State of Project:	5315 Buena Vista Dr	Address:		5315 Buena Vista Dr	53
Program: UST/PST	WPX Energy Permian, LLC	Company Name:		WPX Enery Permian, LLC.	y Name: Wi
Work Order Comments	Lynda Laumbach	Bill to: (if different)		Lynda Laumbach	Manager: Ly

Revised Date 05012020 Rev. 2020.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 05.15.2020 04.15.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 661808

Analyst:

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

Must be completed for	r after-hours deliver	v of samples prior to	placing in the refrigerato
Must be combleted to	aitei-ilouis delivei	V OI SAIIIDIES DI IOI LO	Diacilia ili tile rell'iderato

Checklist completed by: Elizabeth McClellan Date: 05.15.2020

PH Device/Lot#:

Checklist reviewed by:

Jessica Kramer

Jessica Kramer

Date: <u>05.18.2020</u>



Lynda Laumbach

Certificate of Analysis Summary 662161

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw Federal 35 #002

Project Id: 5142020

Contact:

Project Location:

Date Received in Lab: Wed 05.20.2020 14:42

Report Date: 05.21.2020 10:38

Project Manager: Jessica Kramer

	Lab Id:	662161-00)1	662161-00	02	662161-00	03	662161-00)4	662161-0	05	662161-00)6
Analysis Requested	Field Id:	DS01		DS01A		DS02		DS02A		DS03		DS03A	
7matysis Requested	Depth:	2- ft		4- ft		2- ft		4- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.20.2020 0	9:30	05.20.2020 09:40		05.20.2020 09:50		05.20.2020 10:10		05.20.2020 10:30			
Chloride by EPA 300	Extracted:	05.20.2020 1	7:00	05.20.2020 1	17:00	05.20.2020 1	7:00	05.20.2020 1	7:00	05.20.2020	17:00	05.20.2020 1	7:00
	Analyzed:	05.21.2020 0	00:04	05.21.2020 (00:22	05.21.2020 (00:28	05.21.2020 (00:33	05.21.2020	00:39	05.21.2020 0	0:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.94	9.94	17.9	10.1	31.0	10.1	15.6	10.1	392	10.1	81.6	10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer

Jessica Kramer Project Manager



Certificate of Analysis Summary 662161

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw Federal 35 #002

Project Id: 5142020 **Date Received in Lab:** Wed 05.20.2020 14:42

Report Date: 05.21.2020 10:38

Contact: Lynda Laumbach **Project Location:**

Project Manager: Jessica Kramer

	Lab Id:	662161-00	07	662161-00)8	662161-00)9	662161-0	10	662161-0	11	
Analysis Requested	Field Id:	DS04		DS05		DS06		DS07		DS07A		
Analysis Requesieu	Depth:	2- ft		2- ft		2- ft		1- ft		2- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	05.20.2020 1	10:40	05.20.2020 1	0:50	05.20.2020 1	1:00	05.20.2020 1	1:10	05.20.2020	11:20	
Chloride by EPA 300	Extracted:	05.20.2020 1	17:00	05.20.2020 1	7:00	05.20.2020 1	7:00	05.20.2020 1	7:00	05.20.2020	17:00	
	Analyzed:	05.21.2020 (01:03	05.21.2020 (1:09	05.21.2020 ()1:15	05.21.2020 (01:20	05.21.2020	01:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		92.2	9.98	318	9.98	105	9.92	668	9.96	220	9.94	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 662161

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

North Brushy Draw Federal 35 #002 5142020 05.21.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.21.2020

Project Manager: Lynda Laumbach WPX Energy Permian Basin, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Reference: XENCO Report No(s): 662161

North Brushy Draw Federal 35 #002

Project Address:

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 662161. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 662161 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 662161

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DS01	S	05.20.2020 09:30	2 ft	662161-001
DS01A	S	05.20.2020 09:40	4 ft	662161-002
DS02	S	05.20.2020 09:50	2 ft	662161-003
DS02A	S	05.20.2020 10:00	4 ft	662161-004
DS03	S	05.20.2020 10:10	2 ft	662161-005
DS03A	S	05.20.2020 10:30	4 ft	662161-006
DS04	S	05.20.2020 10:40	2 ft	662161-007
DS05	S	05.20.2020 10:50	2 ft	662161-008
DS06	S	05.20.2020 11:00	2 ft	662161-009
DS07	S	05.20.2020 11:10	1 ft	662161-010
DS07A	S	05.20.2020 11:20	2 ft	662161-011

Page 55 of 89

CASE NARRATIVE



None

Client Name: WPX Energy Permian Basin, LLC Project Name: North Brushy Draw Federal 35 #002

 Project ID:
 5142020
 Report Date:
 05.21.2020

 Work Order Number(s):
 662161
 Date Received:
 05.20.2020

Sample receipt non conformances and comments:
Sample receipt non conformances and comments per sample:



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS01** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-001 Date Collected: 05.20.2020 09:30 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.94	9.94	mg/kg	05.21.2020 00:04	U	1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS01A** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-002 Date Collected: 05.20.2020 09:40 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.9	10.1	mg/kg	05.21.2020 00:22		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS02** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-003 Date Collected: 05.20.2020 09:50 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Seq Number: 3126609

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.0	10.1	mg/kg	05.21.2020 00:28		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS02A** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-004 Date Collected: 05.20.2020 10:00 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.6	10.1	mg/kg	05.21.2020 00:33		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: DS03 Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-005 Date Collected: 05.20.2020 10:10 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	392	10.1	mg/kg	05.21.2020 00:39		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS03A** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-006 Date Collected: 05.20.2020 10:30 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.6	10.0	mg/kg	05.21.2020 00:57		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS04** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-007 Date Collected: 05.20.2020 10:40 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.2	9.98	mg/kg	05.21.2020 01:03		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: DS05 Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-008 Date Collected: 05.20.2020 10:50 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	318	9.98	mg/kg	05.21.2020 01:09		1



Analytical Method: Chloride by EPA 300

Certificate of Analytical Results 662161

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS06** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-009 Date Collected: 05.20.2020 11:00 Sample Depth: 2 ft

Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	9.92	mg/kg	05.21.2020 01:15		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS07** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-010 Date Collected: 05.20.2020 11:10 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	668	9.96	mg/kg	05.21.2020 01:20		1



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw Federal 35 #002

Sample Id: **DS07A** Matrix: Soil Date Received:05.20.2020 14:42

Lab Sample Id: 662161-011 Date Collected: 05.20.2020 11:20 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.20.2020 17:00 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	220	9.94	mg/kg	05.21.2020 01:26		1



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 662161

WPX Energy Permian Basin, LLC

North Brushy Draw Federal 35 #002

Analytical Method: Chloride by EPA 300

Matrix: Solid

E300P Prep Method:

05.20.2020

Seq Number: MB Sample Id: 3126609 7703794-1-BLK

LCS Sample Id: 7703794-1-BKS

Date Prep: LCSD Sample Id:

20

7703794-1-BSD

Parameter

MB Result

LCS LCS Result %Rec

251

LCSD Result

LCSD %Rec

%RPD Limits

RPD Units Limit

Analysis Flag Date

Chloride

<10.0

<9.98

250

Spike

Amount

100

249

90-110 100

1

05.20.2020 23:52 mg/kg

Analytical Method: Chloride by EPA 300

3126609

Matrix: Soil

662161-001 S

Prep Method:

E300P

Date Prep: 05.20.2020 MSD Sample Id: 662161-001 SD

mg/kg

Parameter

Chloride

Seq Number:

Parent Sample Id:

662161-001 Parent Result

Spike Amount

200

MS MS Result %Rec 197 99

MS Sample Id:

MSD Result

197

MSD %Rec

99

Limits

90-110

%RPD RPD Limit

0

20

Units Analysis

05.21.2020 00:10

Flag Date

Analytical Method: Chloride by EPA 300

Seq Number:

3126609

Matrix: Soil MS Sample Id: 662161-011 S

E300P Prep Method:

Date Prep: 05.20.2020

Parent Sample Id: **Parameter**

662161-011

Spike Amount

MS MS Result %Rec

MSD Result 416

MSD Limits %Rec 98

%RPD **RPD** Limit Units

MSD Sample Id: 662161-011 SD

Analysis Date

Chloride

Parent Result 220 200

414 97

90-110

0 20 mg/kg

Flag 05.21.2020 01:32

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec



City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr WPX Enery Permian, LLC.

Project Manager: Company Name: Address:

Lynda Laumbach

Bill to: (if different)

-ynda Laumbach

Address: Company Name:

5315 Buena Vista Dr WPX Energy Permian, LLC.

State of Project:

Program: UST/PST PRP

www.xenco.com

Work Order Comments rownfields

RC

Sperfund

Chain of Custody

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Atlanta, GA (770) 449-8800

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Date: Interest			Læs 14122	osla			
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature	Tarana a	January, John
	ces beyond the control custy negotiated.	Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Relinguished by: (Signature)	or expenses incurred by to Xenco, but not analyze	nsibility for any losses reach sample submitted	project and a charge of \$5 fo	\$85.00 will be applied to each	enco. A minimum charge of \$85.00 will
⊓9: 1631 / 245.1 / 7470 / 7471		service. Xenco will be liable only for the cost of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard to the cost of samples and subcontractors.	mpany to Xenco, its affilia	lase order from client co	ples constitutes a valid purci	ent and relinquishment of sam	ce: Signature of this docum
Sn U V Zn	Ag SiO ₂	TO Cu Pb Mn Mo Ni Se An	Sb As Ba Be Cd Cr Co Cu Pb Mn	TCLP / SPLP 6010: 8RCRA S	red TCLP / SPLP	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) ar
		Eo Dh Ma	As Ba Be B	M Texas 11 Al Sb	8RCRA 13PPM	200.8 / 6020:	Total 200.7 / 6010
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			(Y	,4	10:00		DSOH
			×	2	10:30		DS03A
			< >	2,	10:10		2503
				4	10:00	4	DS02
			× -	21	05:6		2502
			× :	-			DSOIA
Sample Comments	C		×		05/20/20 9:30	S 05	DSOI
Sample Committee on the	0		Ch BT	Depth Grab/ # of Comp Cont	Date Time Sampled Sampled	Matrix	Sample Identification
Zn Acetate+NaOH: Zn	Zn Acei		lor, EX	4	Corrected Temperature:	11 00	rotal Containers.
Na ₂ S ₂ O ₃ : NaSO ₃	Na ₂ S ₂ C		: de	20.00	Temperature Reading:	Yes (No) N/A Te	Total Containing
NaHSO ₄ ; NABIS	NaHSC		80		Correction Factor:	No N/A	Cooler Custody Seals:
. HP	H ₃ PO ₄ : HP		(E)	5	Thermometer ID:	Kes No Th	Received Intact:
	H ₂ SO ₄ : H ₂		7A.	Yes No	res No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
	HCL: HC		30		the lab, if rece		PO#
Cool MeOH: Me	Coal: Coal		202	TAT starts the day received by	TAT starts the	Lynda Laumbach	Sampler's Name:
NO DI Water: H ₂ O	None: NO)	500	Due Date:		Project Location
Preservative Codes		ANALYSIS REQUEST	, o	□Rush Pres.	Routine	5142020	Project Number:
0		5 1		Turn Around		North Brushy Draw Federal 35 #002	Project Name:
ř –	+ -		wpxenergy.com	Email: Lynda.Laumbach@wpxenergy.com	Email:	(5/5)/25-1647	
Day Day D	Reporting:Level II Level III ST/IJST		Carlsbad, NM 88220	City, State ZIP:		בשבישם, ואואו ססבבט	
				The same of the sa		THE PARTY OF THE P	



Phone: City, State ZIP:

Carlsbad, NM 88220

5315 Buena Vista Dr WPX Enery Permian, LLC.

Address:

5315 Buena Vista Dr Carlsbad, NM 88220

State of Project:

Program: UST/PST PRP prownfields

RC

Sperfund

www.xenco.com

Work Order Comments

Reporting:Level II Level III

ST/UST

RRP

□evel IV

WPX Energy Permian, Lynda Laumbach

, LLC.

Company Name: Bill to: (if different)

City, State ZIP:

Address: Company Name: Project Manager:

Lynda Laumbach

Chain of Custody

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Atlanta, GA (770) 449-8800

Work Order No:

Revised Date 05012020 Rev. 2020.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 05.20.2020 02.42.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 662161

Analyst:

Temperature Measuring device used: T-NM-007

Date: 05.21.2020

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.9	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

* Must be completed for after-hours deliver	v of sam	ples prior t	o placing ir	the refrigerator
made be completed for ditor medic deliver	, c. ca	p.00 p0	p	. tilo i oli igolato.

Checklist completed by:	Elizabeth McClellan	Date: <u>05.20.2020</u>	
Checklist reviewed by:	Jessica Vramer	Date: 05 21 2020	

PH Device/Lot#:



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

July 29, 2020

Kevin Smith WPX Energy 5315 Buena Vista Drive Carlsbad, NM 88220 TEL: (505) 386-9693

FAX

RE: North Brushy Draw Federal 35-9H OrderNo.: 2007A08

Dear Kevin Smith:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/21/2020 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 www.hallenvironmental.com 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 qualifiers 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2007A08

Date Reported: 7/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BS20-01 2'

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 12:15:00 PM

 Lab ID:
 2007A08-001
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	69	60	mg/Kg	20	7/25/2020 12:23:26 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/23/2020 3:32:56 PM	53905
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/23/2020 3:32:56 PM	53905
Surr: DNOP	63.2	55.1-146	%Rec	1	7/23/2020 3:32:56 PM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/24/2020 6:15:57 AM	53885
Surr: BFB	88.7	66.6-105	%Rec	1	7/24/2020 6:15:57 AM	53885
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	7/24/2020 6:15:57 AM	53885
Toluene	ND	0.046	mg/Kg	1	7/24/2020 6:15:57 AM	53885
Ethylbenzene	ND	0.046	mg/Kg	1	7/24/2020 6:15:57 AM	53885
Xylenes, Total	ND	0.092	mg/Kg	1	7/24/2020 6:15:57 AM	53885
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/24/2020 6:15:57 AM	53885

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

Page 1 of 13

Lab Order **2007A08**Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BS20-02 2'

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 12:51:00 PM

 Lab ID:
 2007A08-002
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	170	60	mg/Kg	20	7/25/2020 12:35:50 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/23/2020 4:03:46 PM	53905
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2020 4:03:46 PM	53905
Surr: DNOP	73.8	55.1-146	%Rec	1	7/23/2020 4:03:46 PM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/24/2020 6:39:25 AM	53885
Surr: BFB	90.4	66.6-105	%Rec	1	7/24/2020 6:39:25 AM	53885
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/24/2020 6:39:25 AM	53885
Toluene	ND	0.047	mg/Kg	1	7/24/2020 6:39:25 AM	53885
Ethylbenzene	ND	0.047	mg/Kg	1	7/24/2020 6:39:25 AM	53885
Xylenes, Total	ND	0.094	mg/Kg	1	7/24/2020 6:39:25 AM	53885
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/24/2020 6:39:25 AM	53885

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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Analytical Report Lab Order 2007A08

Date Reported: 7/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BS20-03 2'

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 1:42:00 PM

 Lab ID:
 2007A08-003
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: CAS
Chloride	94	60	mg/Kg	20	7/25/2020 1:13:02 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/23/2020 4:13:59 PM	53905
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/23/2020 4:13:59 PM	53905
Surr: DNOP	72.9	55.1-146	%Rec	1	7/23/2020 4:13:59 PM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/23/2020 3:45:43 PM	53903
Surr: BFB	91.8	66.6-105	%Rec	1	7/23/2020 3:45:43 PM	53903
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	7/23/2020 3:45:43 PM	53903
Toluene	ND	0.046	mg/Kg	1	7/23/2020 3:45:43 PM	53903
Ethylbenzene	ND	0.046	mg/Kg	1	7/23/2020 3:45:43 PM	53903
Xylenes, Total	ND	0.092	mg/Kg	1	7/23/2020 3:45:43 PM	53903
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/23/2020 3:45:43 PM	53903

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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Analytical Report Lab Order 2007A08

Date Reported: 7/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BS20-04 2'

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 2:18:00 PM

 Lab ID:
 2007A08-004
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	1000	60	mg/Kg	20	7/25/2020 1:25:27 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/23/2020 4:24:10 PM	53905
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2020 4:24:10 PM	53905
Surr: DNOP	65.7	55.1-146	%Rec	1	7/23/2020 4:24:10 PM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/23/2020 4:56:39 PM	53903
Surr: BFB	91.4	66.6-105	%Rec	1	7/23/2020 4:56:39 PM	53903
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/23/2020 4:56:39 PM	53903
Toluene	ND	0.049	mg/Kg	1	7/23/2020 4:56:39 PM	53903
Ethylbenzene	ND	0.049	mg/Kg	1	7/23/2020 4:56:39 PM	53903
Xylenes, Total	ND	0.099	mg/Kg	1	7/23/2020 4:56:39 PM	53903
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/23/2020 4:56:39 PM	53903

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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Lab Order **2007A08**Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: BS20-05 4'

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 3:33:00 PM

 Lab ID:
 2007A08-005
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	190	60		mg/Kg	20	7/25/2020 1:37:52 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/23/2020 4:34:21 PM	53905
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/23/2020 4:34:21 PM	53905
Surr: DNOP	45.5	55.1-146	S	%Rec	1	7/23/2020 4:34:21 PM	53905
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/23/2020 5:20:10 PM	53903
Surr: BFB	98.4	66.6-105		%Rec	1	7/23/2020 5:20:10 PM	53903
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 5:20:10 PM	53903
Toluene	ND	0.048		mg/Kg	1	7/23/2020 5:20:10 PM	53903
Ethylbenzene	ND	0.048		mg/Kg	1	7/23/2020 5:20:10 PM	53903
Xylenes, Total	ND	0.096		mg/Kg	1	7/23/2020 5:20:10 PM	53903
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/23/2020 5:20:10 PM	53903

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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Lab Order **2007A08**Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: WS20-01

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 4:18:00 PM

 Lab ID:
 2007A08-006
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	600	60	mg/Kg	20	7/25/2020 1:50:17 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/23/2020 4:44:32 PM	53905
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2020 4:44:32 PM	53905
Surr: DNOP	65.4	55.1-146	%Rec	1	7/23/2020 4:44:32 PM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/23/2020 5:43:46 PM	53903
Surr: BFB	94.2	66.6-105	%Rec	1	7/23/2020 5:43:46 PM	53903
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/23/2020 5:43:46 PM	53903
Toluene	ND	0.048	mg/Kg	1	7/23/2020 5:43:46 PM	53903
Ethylbenzene	ND	0.048	mg/Kg	1	7/23/2020 5:43:46 PM	53903
Xylenes, Total	ND	0.096	mg/Kg	1	7/23/2020 5:43:46 PM	53903
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/23/2020 5:43:46 PM	53903

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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Lab Order **2007A08**Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: WS20-02

 Project:
 North Brushy Draw Federal 35-9H
 Collection Date: 7/17/2020 4:24:00 PM

 Lab ID:
 2007A08-007
 Matrix: SOIL
 Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	7/25/2020 2:02:41 AM	53944
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/28/2020 11:28:32 AM	53905
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/28/2020 11:28:32 AM	53905
Surr: DNOP	52.4	30.4-154	%Rec	1	7/28/2020 11:28:32 AM	53905
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/23/2020 6:07:26 PM	53903
Surr: BFB	91.9	66.6-105	%Rec	1	7/23/2020 6:07:26 PM	53903
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	7/23/2020 6:07:26 PM	53903
Toluene	ND	0.047	mg/Kg	1	7/23/2020 6:07:26 PM	53903
Ethylbenzene	ND	0.047	mg/Kg	1	7/23/2020 6:07:26 PM	53903
Xylenes, Total	ND	0.095	mg/Kg	1	7/23/2020 6:07:26 PM	53903
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/23/2020 6:07:26 PM	53903

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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007A08**

29-Jul-20

Client: WPX Energy

Project: North Brushy Draw Federal 35-9H

Sample ID: MB-53944 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 53944 RunNo: 70587

Prep Date: 7/24/2020 Analysis Date: 7/24/2020 SeqNo: 2456148 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-53944 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53944 RunNo: 70587

Prep Date: 7/24/2020 Analysis Date: 7/24/2020 SeqNo: 2456149 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

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 Quantitative 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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007A08 29-Jul-20**

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Client: WPX Energy

Sample ID: 2007A08-001AMSD

Surr: DNOP

Project: North Brushy Draw Federal 35-9H

Sample ID: 2007A08-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS20-01 2'** Batch ID: **53905** RunNo: **70548**

SampType: MSD

2.2

Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2454543 Units: mg/Kg

4.980

SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual 3.292 Diesel Range Organics (DRO) 48 9.6 47.80 93.2 47.4 136 Surr: DNOP 2.8 4.780 58.9 55.1 146

TestCode: EPA Method 8015M/D: Diesel Range Organics

146

0

Client ID: BS20-01 2' Batch ID: 53905 RunNo: 70548 Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2454544 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 49.80 3.292 87.5 47.4 136 1.97 43.4

43.5

55.1

Sample ID: MB-53905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 53905 RunNo: 70548 Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2454549 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 6.9 10.00 68.7 55.1 146

Sample ID: LCS-53905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 53905 RunNo: 70551 Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2454563 Units: mg/Kg Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte POI Diesel Range Organics (DRO) 48 10 50.00 0 96.0 70 130 Surr: DNOP 4.8 5.000 95.5 146 55.1

Sample ID: LCS-53926 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Batch ID: 53926 Client ID: LCSS RunNo: 70581 Prep Date: 7/23/2020 Analysis Date: 7/24/2020 SeqNo: 2455254 Units: %Rec Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Surr: DNOP 5.8 5.000 117 55.1 146

Sample ID: MB-53926 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 53926 RunNo: 70581 Prep Date: 7/23/2020 Analysis Date: 7/24/2020 SeqNo: 2455255 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual

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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Hall Environmental Analysis Laboratory, Inc.

2007A08 29-Jul-20

WO#:

Client: WPX Energy

Project: North Brushy Draw Federal 35-9H

Sample ID: MB-53926 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 53926 RunNo: 70581

Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455255** Units: **%Rec**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 13 10.00 127 55.1 146

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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Hall Environmental Analysis Laboratory, Inc.

2007A08 29-Jul-20

WO#:

Client: WPX Energy

Project: North Brushy Draw Federal 35-9H

Sample ID: Ics-53885 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53885 RunNo: 70543

Prep Date: 7/21/2020 Analysis Date: 7/23/2020 SeqNo: 2455013 Units: mq/Kq

PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result %REC LowLimit Qual Gasoline Range Organics (GRO) 21 5.0 25.00 Λ 82.6 72.5 106

Surr: BFB 1000 1000 104 66.6 105

Sample ID: Ics-53903 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53903 RunNo: 70543

Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2455014 Units: mg/Kg

RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 5.0 25.00 O 85.6 72.5 106 Surr: BFB 1000 1000 102 66.6 105

Sample ID: mb-53885 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **53885** RunNo: **70543**

Prep Date: 7/21/2020 Analysis Date: 7/23/2020 SeqNo: 2455015 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 910
 1000
 91.0
 66.6
 105

Sample ID: mb-53903 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 53903 RunNo: 70543

Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2455016 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 92.2 66.6 105

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 Quantitative 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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007A08**

29-Jul-20

Client: WPX Energy

Project: North Brushy Draw Federal 35-9H

Sample ID: 2007a08-003ams	SampT	SampType: MS TestCode: EPA Method 8						iles			
Client ID: BS20-03 2'	03 2' Batch ID: 53903 RunNo: 70543										
Prep Date: 7/22/2020	Analysis D	Date: 7/	23/2020	SeqNo: 2455060 Units:			Units: mg/K	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.024	0.9737	0	96.3	78.5	119				
Toluene	0.96	0.049	0.9737	0.009972	97.2	75.7	123				
Ethylbenzene	0.97	0.049	0.9737	0	99.8	74.3	126				
Xylenes, Total	2.9	0.097	2.921	0	101	72.9	130				
Surr: 4-Bromofluorobenzene	1.0		0.9737		105	80	120				

Sample ID: 2007a08-003amsd	I SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BS20-03 2'	Batch	1D: 53 9	903	F	RunNo: 70	0543				
Prep Date: 7/22/2020	Analysis D	ate: 7/	23/2020	S	SeqNo: 24	455061	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9579	0	94.2	78.5	119	3.84	20	
Toluene	0.92	0.048	0.9579	0.009972	95.0	75.7	123	3.87	20	
Ethylbenzene	0.94	0.048	0.9579	0	98.3	74.3	126	3.17	20	
Xylenes, Total	2.8	0.096	2.874	0	99.0	72.9	130	3.49	20	
Surr: 4-Bromofluorobenzene	1.0		0.9579		105	80	120	0	0	

Sample ID: LCS-53885	SampType: LCS TestCode: EPA Method 802							tiles						
Client ID: LCSS	Batc	Batch ID: 53885 RunNo: 7					RunNo: 70543							
Prep Date: 7/21/2020	Analysis D	Date: 7/	23/2020	8	SeqNo: 2	455067	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.91	0.025	1.000	0	91.0	80	120							
Toluene	0.92	0.050	1.000	0	91.8	80	120							
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120							
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120							
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120							

Sample ID: LCS-53903	SampT	SampType: LCS TestCode: EPA Method 8						iles			
Client ID: LCSS	Batcl	Batch ID: 53903 RunNo: 70543									
Prep Date: 7/22/2020	Analysis D	Analysis Date: 7/23/2020 SeqNo: 2455068 U					8 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	93.7	80	120				
Toluene	0.94	0.050	1.000	0	94.5	80	120				
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120				
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120				

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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007A08**

29-Jul-20

Client: WPX Energy

Project: North Brushy Draw Federal 35-9H

Sample ID: mb-53885 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 53885 RunNo: 70543

Prep Date: 7/21/2020 Analysis Date: 7/23/2020 SeqNo: 2455069 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

Tolluene ND 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 103 80 120

SampType: MBLK Sample ID: mb-53903 TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 53903 RunNo: 70543 Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2455070 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 103 80 120

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

Sample Log-In Check List

Client Name: WPX Energy	Work Order Number:	2007A08		RcptNo:	1	
Received By: Cheyenne Cason	7/21/2020 9:30:00 AM					
Completed By: Juan Rojas	7/21/2020 9:58:19 AM		flower &			
Reviewed By: JR 4 21/70						
Chain of Custody				_		
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present		
2. How was the sample delivered?		Courier				
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆		
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗔		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆			
6. Sufficient sample volume for indicated test(s)*	?	Yes 🗹	No 🗌			
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌			
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆		
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes	No 🗌	NA 🗹		
10. Were any sample containers received broken	?	Yes	No 🗹	# of preserved		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)	
12. Are matrices correctly identified on Chain of C	Custody?	Yes 🗹	No 🗌	Adjusted?		
13. Is it clear what analyses were requested?		Yes 🗹	No 🗆		SPA 7-2	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 📙	Checked by:	3 F A A A	-
Special Handling (if applicable)						
15. Was client notified of all discrepancies with the	nis order?	Yes 🗌	No 🗆	NA 🗹	_	
Person Notified:	Date	***************************************				
By Whom:	Via:	eMail	Phone Fax	☐ In Person		
Regarding: Client Instructions:			LANCE OF THE STATE			
16. Additional remarks:		***************************************	August Marian Ma			
17. Cooler Information						
	al Intact Seal No \$	Seal Date	Signed By			
1 5.8 Good						
2 1.7 Good			1			

S.G. +0.2 =5.8 1.5+0.2 =1.2 Send 1975+ +0 Jin Paley and 16.00 Send 1985 Received by OCD: 11/12/2020 6:08:06 PM **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Puge 1 of 1 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Total Coliform (Present/Absent) (AOV-im92) 07S8 (AOV) 09S8 Br, NO3, NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals 2HA9 by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: PH:8015D(GRO / DRO / MRO) MTBE / TMB's (8021) North Brushy Daw Federal 28-9H 7007A08 1/21/20 0930 Sod/ Time 5 Day Tura 400 7007 4007 -005 ب ج 503 -001 Cooler Temp(maluding cF): Scc 🔝 🔊 Date 20/20 20E-01585-001 On Ice: 🔃 🖫 Yes 🗀 No Rest min Kenin Smith □ Rush Preservative Service Constitution ree Turn-Around Time: Type ζia: # of Coolers: 2 Project Manager: Project Name: 区 Standard Type and # Container Received by: Project #: Received by Sampler: 700 □ Level 4 (Full Validation) OF. **Chain-of-Custody Record** ż Carlsbad, NIM 88220 5315 Brena Viste Dr Sample Name 20-025M RS20-02 <u> 5757-889 (257</u> 8520-048 8540-05 10-0 t SM B Sto-03 BS20-01 therest □ Az Compliance Relinquished by: Relinquished by: □ Other Time Matrix る ろ 7/17/10 12:15 SO. 1 Mailing Address: QA/QC Package: 12:21 4,24 ٦. ۲۲ 3.33 12/20 1900 4.18 email or Fax#: ☐ EDD (Type) 2:18 Accreditation: Time: □ Standard Time: □ NELAC Phone #: Client: Date Date:

State of New Mexico

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Incident ID	NRM2020657799	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.					
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)					
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.					
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Lynda Laumbach Title: Environmental Specialist					
Signature: Juda Jamesach Date: 11/12/2020					
email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647					
OCD Only					
Received by: Robert Hamlet Date: 4/6/2021					
Approved					
Signature: Robert Hamlet Date: 4/6/2021					

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 11188

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
WPX ENERGY PERMIAN, LLC	3500 One Williams Center	Tulsa, OK74172	246289	11188	C-141

OCD	Condition
Reviewer	
rhamlet	The Remediation Plan is approved with the following conditions: All floor samples need to be below closure criteria standards of <50' depth to groundwater from Table 1 of the spill rule. Please make
	sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH. All soil samples need to be tested for all components in Table 1 of the OCD Spill Rule.