Received by OCD: 8/22/2023 6:52:20 AM	1
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# NM OIL CONSERVATION

Page 1 of 143

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District I				<b>C</b> ( )	<b>C</b> 1		•	ARTES	IA DISTR		
1625 N. French	Dr., Hobbs, N	M 88240				New Mex		ΙΔΝ	26 20	117	Form C-141
District II 811 S. First St.,	Artesia NM 8	8210		Energy Min	erals a	and Natura	I Resources	JPAIN	CU A	<b>, 11</b>	Revised August 8, 2011
District III				Oil Co	mser	vation Div	vision	Submi	t I Copy	to appropr	iate District Office in /ith 19.15.29 NMAC.
1000 Rio Brazo District IV	os Road, Aztec,	NM 87410				St. Franc		4 E	CEIVE	bordance w	vith 19.15.29 NMAC.
1220 S. St. Fran	ncis Dr., Santa I	Fe, NM 87505	5								
					_	e, NM 875					
			Rele	ease Notifica	ation	and Co	orrective A	ction			
nAB17	tol nua	185				<b>OPERA</b>	ΓOR	Σ	Initia	l Report	Final Report
Name of Co	ompany V	VPX Energ	y Inc/RK	1 2410284		Contact	Karolina Blar				
Address		na Vista Di			·····	Telephone N	No. 970 589 074				
Facility Nat	me: RDU 12	2				Facility Typ	e: Well Pad				
Surface Ow	vner: Federa	al		Mineral Ov	vner: 1	Federal			API No	. 30- 015-	24793
Unit Letter	Section	Township	Panga	T**		N OF REI South Line	Feet from the	East/We	ot Lina	County	
Unit Letter	Section	rownsnip	Range	reet from the	norm	South Line	reet from the	East/we	st Line	County	
A	33	26S	30E	467		FNL	660	FE	L	Eddy	
			La	titude: 32.01139	288N	Longitud	e <sup>.</sup> -103 866/160	94W			·····
			L/a			OF REL		74 VV			
Type of Rele	ease. Produce	d Water and	Oil				Release: 12 Bbl	<u> </u>	Volume	Recovere	d: 4.5 Bbls
Source of Re				· ,, w.			lour of Occurrence			d Hour of	
Tank Stuffir						1/11/2017			1/11/20	<u>17 – 10:00</u>	hrs MT
Was Immedi	iate Notice Gi					If YES, To					
			Yes	No 🗌 Not Rec	uired		Crystal Weaver &		Bratcher,	BLM Shell	ly Tucker
	Karolina Blan						lour: 1/12/17-8:3				
Was a Water	rcourse Reach		v ⊠	1 NJ.			olume Impacting t	the Waterc	ourse.		
			Yes 🛛	INO		N/A					
If a Waterco	urse was Imp	acted, Descr	ibe Fully.'	* N/A		· · · · · · · · · · · · · · · · · · ·	······································				
Describe Ca	use of Probler	m and Reme	dial Actio	n Taken *							
Deseribe Ca				ii Taken.							
											from the pad. The
spill migrate	ed west of the	pad, entered	l a dry drai	nage and migrated	for abo	out 100 yards	. To prevent from	n further n	nigration,	the oil was	s absorbed with dirt.
Deceribe Ar	ea Affected an	nd Cleanup	Action Tal								
Describe Ait	ca Allecieu ai	nu Cleanup A	ACTION 1 ar	ch.							
The impacted	d area was ma	apped with a	Trimble.	The impacted soil f	rom th	e pad's surfa	ce and the drainag	ge will be	removed	and hauled	l off for disposal.
				PH, and chlorides i	n acco	rdance with N	NM OCD Guideli	nes for Re	mediatio	n of Leaks,	Spills, and
Releases. Fu	rther remedia	tion will be	based on t	hese results.							
L hereby cert	ify that the in	formation gi	iven above	is true and comple	te to th		knowledge and u	nderstand	that nurs	uant to NM	10CD rules and
				nd/or file certain rel							
public health	1 or the enviro	onment. The	acceptance	ce of a C-141 repor	t by the	e NMOCD m	arked as "Final R	eport" doe	es not reli	eve the ope	erator of liability
											ater, human health
				ptance of a C-141 re	eport de	oes not reliev	e the operator of	responsibi	lity for co	ompliance	with any other
iederal, state	e, or local law	s and/or regu	uiations.				OIL CON	SEDVA	TION	עסעע	
	Karolina	Blaney					<u>UIL CON</u>	<u>SERVA</u>		10101010	
Signature:		8					n: 1 P	S. A.	1. 1.		
						Approved by	Signed By Environmental S	pecialist:	1 10,00	and con	
Printed Nam	e: Karolina I	blaney					11 1				
Title: Enviro	onmental Spe	cialist				Approval Dat	te: 127117	Ex	piration 1	Date: N	A
				*		TF COM AND			•	*	
E-mail Addr	ess: Karolina	a.blaney@wj	pxenergy.c	com	'	Conditions of	f Approval:	,	Λ	Attached	d □
	2014			070 500 0742			See at	trinn	od		
Date: 1/26/ * Attach Add		to If Nagara		e: 970-589-0743			MM	INIL	W	<u> </u>	000 400
· Auach Add	monar Sheet	is II INCCESS	sai y								2RP-4095

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	nAB1702749185
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 email: Jim.Raley@dvn.com	Incident # (assigned by OCD): nAB1702749185
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

### **Location of Release Source**

Latitude 32.00476	Longitude     -103.87977       (NAD 83 in decimal degrees to 5 decimal places)
Site Name: Ross Draw Unit 12	Site Type: Well pad
Date Release Discovered: 01/11/2017	API# ( <i>if applicable</i> ): 30-015-24793

Unit Letter	Section	Township	Range	County
А	33	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: \_

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil/Produced Water	Volume Released (bbls): 12	Volume Recovered (bbls): 4.5				
Produced Water	Volume Released (bbls):	Volume Recovered (bbls):				
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No				
Condensate	Volume Released (bbls)	Volume Recovered (bbls)				
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)				

Cause of Release:

The spill was caused by human error; stuffing box failure. Approximately 12 bbls of oil and water was spilled with 4.5 bbls recovered from the pad. The spill migrated west of the pad, entered a dry drainage and migrated for about 100 yards. To prevent from further migration, the oil was absorbed with dirt.

 $bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^3)}{4.21 \ (\frac{ft^3}{bbl \ equivalent})} * estimated \ porosity \ (\%) + recovered \ fluids \ (bbl)$ 

	<b>Page 3 of 14</b>
Incident ID	nAB1702749185
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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 no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
,	

## **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\boxtimes$  The source of the release has been stopped.

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.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation 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.

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: Jim Raley	Title: Environmental Professional
Signature:	Date: <u>8/16/2023</u>
email: <u>Jim.Raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

Received by OCD: 8/22/2023 6:52:20 AM State of New Mexico

Page 3

**Oil Conservation Division** 

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Incident ID	nAB1702749185
District RP	
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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?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 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 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 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 🗙 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 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.

#### 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 <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- $\boxtimes$ 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.

<b>Received by OCD: 8/22</b> Form C-141 Page 4	/2023 6:52:20 AM State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 5 of 143           nAB1702749185
regulations all operators public health or the envir failed to adequately inve addition, OCD acceptand and/or regulations.	information given above is true and complete to the are required to report and/or file certain release no ronment. The acceptance of a C-141 report by the estigate and remediate contamination that pose a th ce of a C-141 report does not relieve the operator of Raley	tifications and perform co OCD does not relieve the reat to groundwater, surface	prective actions for rele operator of liability sho ce water, human health iance with any other fee	ases which may endanger ould their operations have or the environment. In
Signature:	k	Date: <u>8/16/2023</u>	_	
email: <u>Jim.Raley@d</u>	lvn.com	Telephone: <u>575-689</u>	)-7597	
OCD Only Received by:		Date:		

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Oil Conservation Division

Incident ID	nAB1702749185
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Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley Title: Environmental Professional Signature: \_\_\_\_\_ Date: 8/16/2023 \_\_\_\_\_ Telephone: 575-689-7597 email: Jim.Raley@dvn.com **OCD Only** Date: Received by: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Ashley Maxwell</u> Printed Name: Ashley Maxwell Date: 09/01/2023 Title: Environmental Specialist



# **CLOSURE REQUEST ADDENDUM**

Ross Draw Unit 12 Eddy County, New Mexico Incident Number nAB1702749185

Prepared for: WPX Energy Permian, LLC

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



### **SYNOPSIS**

In response to a meeting with the New Mexico Oil Conservation Division (NMOCD) for the denial of a Closure Request Addendum (CRA), which addressed a concern of inadequate determination of depth to groundwater from a denial associated with a previously submitted Closure Report (CR) for the Ross Draw Unit 12 (Site), Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following updated CRA that includes the CR with the complete remediation and laboratory analytical summaries. The previous CR and CRA were denied on March 29, 2023, and June 21, 2023, respectively due to the following reason(s):

#### March 29, 2023

- "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater."
- The lat and long on the initial C-141 dated January 26, 2017 (2RP-4095) does not match the lat and long for the site sampled in the report."

#### June 21, 2023

• "Closure denied due to incomplete closure report. The following are missing: scaled site map/sampling diagram, description of remediation activities, photographs of the remediated site, and final sampling lab analyses."

Shelly Wells and Ashley Maxwell from NMOCD requested to resubmit this CRA with the updated groundwater determination and specifically the CR as an attachment, due to their inability to reference the CR in the NMOCD permitting files (<u>OCD Permitting - Incidents (nm.gov</u>)). Based on the updated CRA, correspondence and requests from NMOCD, WPX is requesting No Further Action (NFA) for Incident Number nAB1702749185.

### SITE LOCATION AND BACKGROUND

The Site is located in Unit A, Section 33, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.00476° N, 103.87977° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). (**Figure 1** in **Appendix A**).

On January 11, 2017, a wellhead stuffing box failure caused approximately 12 barrels (bbls) of produced water and crude oil to be released onto the well pad. Vacuum trucks were immediately dispatched and recovered approximately 4.5 bbls of fluid. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 26, 2017, and was subsequently assigned Incident Number nAB1702749185. It should be noted that the original Form C-141 included incorrect Global Positioning System (GPS) coordinates for the release and are updated on the provided Final Form C-141. Photographic documentation and coordination with the BLM for remediation oversight certified that remediation activities described in the CR were conducted in the correct location.

Closure Request Addendum Incident Number nAB1702749185 Ross Draw Unit 12



### SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

The nearest permitted water well used in the CR with depth to water data was United States Geological Survey (USGS) well 320125103514701, located approximately 1.6 miles northeast of the Site. USGS well 320125103514701 has a reported depth of water 117 feet below ground surface (bgs) from 1987. Due to the age of the groundwater measurement and the distance of the well from the Site (greater than 25 years old and greater than 0.5 miles), NMOCD determined the data to be insufficient to assist with the regional groundwater depth estimate at the Site.

Since the submittal of the CR, on December 9, 2020, Talon LPE drilled a soil boring (MW-1), located approximately 0.5 miles northeast of the Site on the Ross Draw Unit #57 well pad. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. Well records for referenced wells are provided in **Appendix B**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and further supported regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria
Chloride	(Environmental Protection Agency) EPA 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-gasoline range organics (GRO) and TPH- diesel range organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

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### **CLOSURE REQUEST**

Following the recent completion of soil boring MW-1, located within 0.5 miles of the Site, depth to water determination at the Site has been further supported to be greater than 100 feet bgs. With the supplemental groundwater data and the confirmation of the Site location, WPX has addressed all concerns in the denial responses from the NMOCD. NFA appears warranted at this time and the Site should be respectfully considered for Closure by the NMOCD. The previously submitted CR can be referenced in **Appendix C**.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

anna Byers

Anna Byers Senior Geologist

Josep Stoch

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, WPX New Mexico Oil Conservation Division Bureau of Land Management

Appendices:

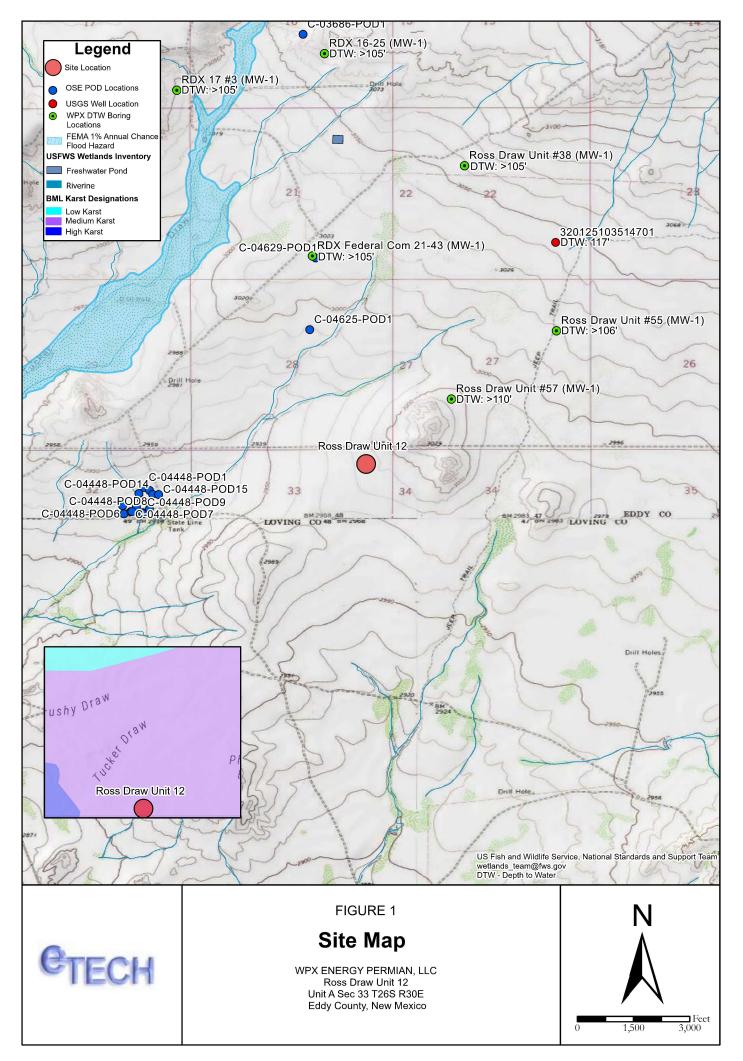
- Appendix A: Figure 1: Site Map
- Appendix B: Referenced Well Records
- Appendix C: Previously Submitted Closure Report

# **APPENDIX A**

Figure 1: Site Map

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





# **APPENDIX B**

# **Referenced Well Records**

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320125103514701 26S.30E.22.44124

Eddy County, New Mexico Latitude 32°01'25", Longitude 103°51'47" NAD27 Land-surface elevation 3,044 feet above NGVD29 This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1987-10-21		I	D 62610		2926.97	NGVD29	1		5		А
1987 <b>-</b> 10-21		I	D 62611		2928.54	NAVD88	1	:	5		A
1987-10-21		I	D 72019	117,03			1		5		A

Explanation				
Section	Code	Description		
Water-level date-time accuracy	D	Date is accurate to the Day		
Parameter code	62610	Groundwater level above NGVD 1929, feet		
Parameter code	62611	Groundwater level above NAVD 1988, feet		
Parameter code	72019	Depth to water level, feet below land surface		
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988		
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929		
Status	1	Static		
Method of measurement	S	Steel-tape measurement.		
Measuring agency		Not determined		
Source of measurement		Not determined		
Water-level approval status	А	Approved for publication Processing and review completed.		

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

#### U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-06-02 14:53:54 EDT 0.28 0.24 nadww02

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Drilling Me	ethod: Air Rotar	v	Sampling N		one		Logged By:	Logged By: J. Linn, PG Drilled By: Talon			PE	
Gravel Pac	k Type:	2	Gravel Pac	k Depth Inte	erval:		Seal Type:		Seal Depth Interval:	Latitude:		
l Casing Typ	0/20 Sar	nd Diameter:		3 E Depth Inter	Bags			one al Depth (ft. BC	None	32.0103 Longitude:	32	
PVC		2-inch		0-105 f	eet bgs			11	10	-103.872		
Screen Typ PVC	be:	Slot: 0.010-in	aab	Diameter: 2-inch	-	Interval: 110 ft	Well Total	Depth (ft. BGS	): 10	Depth to Water (ft. BTOC): $> 110$	DTW Date: 12/16/2	020
		0.010-1	licii	Z-IIICII						>110	12/10/2	020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	Wel	
De	Recc (f	Plast	Moi	õ	Stai	ID (	NS	amp	Linolog	y/Remarks	Comple	tion
						Р		S				1
0	-									-	-	
5										-	-	
10										+		
15	NM	L/M	D	Ν	Ν	NM	SM	NS		pale brown poorly fine sand	-	
20 25									graded	-	-	
30	-									-	-	
35	-									-	-	
40									Hard dry pale pint	c orange well graded		
45	NM	М	D	N	Ν	NM	SW	NS	• • •	th gravel		
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95												
100	NM	L/M	D	Ν	Ν	NM	SM	NS	~ -	pale brown poorly	-	
105									graded fine sat	nd - TD 110' bgs		

# APPENDIX C

# **Previously Submitted Closure Report**

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





March 26, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: Ross Draw Unit #12 Release Closure Request (2RP-2211 & 2RP-4095)

Mr. Bratcher,

The attached report summarizes the sampling activities at the Ross Draw Unit (RDU) #12 well pad. WPX requests no further action be taken until the reclamation of the Pad. Please contact me with any questions or concerns.

Best regards,

Juda tomback

Lynda Laumbach Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments: Attachment 01 Site Characterization Report & Soil Closure Report

		6:52:20 AM				NM	I OIL COI ARTÉSIA			ę 0	Page 19 of
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000 Rio Brazos Road, <u>District IV</u>			St. Franc		Submit I Copy to appropriate District Office in RECEIVEC ordance with 19.15.29 NMAC			5.29 NMAC.			
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Page 3

Oil Conservation Division

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

	1.0.0
What is the shallowest depth to groundwater beneath the area affected by the release?	$\geq 100$ (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🕅 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 🕅 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗶 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 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X 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 🗶 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗶 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🕅 Yes 🗌 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.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- $\underline{X}$  Depth to water determination
- X Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X 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:	8/22/2023 6:52:20 AM State of New Mexico			Page 21 of 143
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regulations all ope public health or th failed to adequatel addition, OCD acc and/or regulations Printed Name: Signature: email: Lynda.La	at the information given above is true and complete to the rrators are required to report and/or file certain release noti e environment. The acceptance of a C-141 report by the C y investigate and remediate contamination that pose a three reptance of a C-141 report does not relieve the operator of Lynda Laumbach	fications and perform co OCD does not relieve the at to groundwater, surfa	prrective actions for relea coperator of liability sho ce water, human health iance with any other fed ental Specialist	ases which may endanger ould their operations have or the environment. In
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Oil Conservation Division

Incident ID	2RP-4095
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Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.					
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
X Description of remediation activities					
hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules nd regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which nay endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability hould their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, uman health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for ompliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially estore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in ccordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Trinted Name: Lynda Laumbach Title: Environmental Specialist ignature: Junda Laumbach Title: 03/26/2020 mail: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647					
OCD Only					
Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and emediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible arty of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: Date:					
Printed Name: Title:					

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# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

	> 100
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 🔀 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 🕅 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗶 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 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	$\Box$ Yes $\overline{X}$ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗶 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🕅 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.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- $\underline{X}$  Data table of soil contaminant concentration data
- $\underline{X}$  Depth to water determination
- X Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- X Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- X 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.

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regulations all operato public health or the er failed to adequately ir addition, OCD accept and/or regulations. Printed Name: Signature:	ne information given above is true and complete to the ors are required to report and/or file certain release noti nvironment. The acceptance of a C-141 report by the C nvestigate and remediate contamination that pose a three ance of a C-141 report does not relieve the operator of Lynda Laumbach	fications and perform OCD does not relieve eat to groundwater, su	corrective actions for rele the operator of liability she rface water, human health apliance with any other fee mental Specialist	ases which may endanger ould their operations have or the environment. In
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		Date:		

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Oil Conservation Division

Incident ID	2RP-2211
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Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.					
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
X Description of remediation activities					
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losure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and mediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible arty of compliance with any other federal, state, or local laws and/or regulations.					
losure Approved by: Date:					
rinted Name: Title:					

# Site Characterization Report & Soil Closure Request

## WPX Energy, Inc. RDU 12

Eddy County, New Mexico Unit Letter A, Section 33, Township 26 South, Range 30 East Latitude 32.004760 North, Longitude 103.879775 West NMOCD Reference No. 2RP-2211 & 2RP-4095

Prepared By:

Etech Environmental & Safety Solutions, Inc. 13000 W County Road 100 Odessa, TX 79765

ph.S. Hdg.

Joseph S. Hernandez - Project Manager

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Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil (2RP-4095)

### APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data and Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log

### 1.0 PROJECT INFORMATION (2RP-2211)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the Ross Draw 12. Details of the release are summarized below:

	22.00		on of Release Sou		102 0707750		
Latitude:	32.00	04760 Provided G	Longitude PS are in WGS84		-103.8797758		
Site Name:	POSS	DRAW 12	Site Type:		Wellhead		
Date Release Disco		2/25/2014	API # (if app	licable):	30-015-24793		
	~ •			~			
Unit Letter A	Section 33	Township 26S	Range 30E	County Eddy	7		
Surface Owner:	State XI		Private (Na				
X Crude Oil X Produced Wa		e Released (bbls) 15	;	Volume R	Recovered (bbls) 0		
		oncentration of disso d water > 10,000 m		ne Ye	es No X N/A		
Condensate Volume Released (bbls)			Volume R	Recovered (bbls)			
Natural Gas	Volume	e Released (Mcf)		Volume R	Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released Volume/Weight Recovered			Veight Recovered				
Cause of Releases This release was o		ansfer pump overloa	ad, resulting in the	water tank to	overflow.		
		I	nitial Response				
X The source of	f the release h	as been stopped.					
X The impacted	area has been	secured to protect l	human health and	the environme	nt.		
X Release mate	rials have bee	n contained via the	use of berms or di	kes, absorbent	pad, or other containment devic		
		able materials have					

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

### 1.0A PROJECT INFORMATION (2RP-4095)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the RDU 12. Details of the release are summarized below:

•. <b>1</b>	22.04		n of Release Sou	
Latitude:	32.00	04760 Provided	Longitude I GPS are in''Y I	
Site Name: Date Release Disc		DU 12 1/11/2017	Site Type: API # (if app	Wellhead
Date Release Disc	overed:	1/11/2017	API # (11 app	S0-013-24795
Unit Letter A	Section 33	Township 26S	Range 30E	County Eddy
Surface Owner:	State X	Federal Tribal	Private (Na	ame
		Nature an	nd Volume of Re	elease
X Crude Oil X Produced Wa		e Released (bbls) 12		Volume Recovered (bbls) 4.5
		oncentration of dissol ed water > 10,000 mg		he Yes No X N/A
Condensate Volume Released (bbls)			Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)
Other (describe) Volume/Weight Released Volume/Weight Recovered			Volume/Weight Recovered	
Cause of Release This release was drainage and mig	caused by hur	•	x failure. The spi	ill migrated west of the pad, entered a dry
		In	itial Response	
X The source of	of the release h	as been stopped.		
X The impacted	l area has beer	n secured to protect h	uman health and	the environment.
X Release mate	erials have bee	en contained via the u	se of berms or di	ikes, absorbent pad, or other containment devic
V A 11 G 11	1	able meteriale berre b		d managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

### 2.0 SITE CHARACTERIZATION (2RP-2211)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' bgs
Did the 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 any 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	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 the 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?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

	Closure Criteria for Soil Impacted by a Release							
Probable Depth to Groundwater	Constituent	Method	Limit					
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg					
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg					
>100' bgs	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg					
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg					
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg					

### 2.0A SITE CHARACTERIZATION (2RP-4095)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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Did the 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 any 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	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 the 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?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X 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?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release					
Probable Depth to Groundwater	Constituent	Method	Limit		
>100' bgs	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg		
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg		
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg		
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg		

### 4.0 **REMEDIATION ACTIVITIES SUMMARY**

On January 15, 2020, Etech personnel conducted initial site assessments for two (2) releases, 2RP-2211 and 2RP-4095, that occurred at the RDU 12 Site in Eddy County, NM. The assessments consisted of generating a footprint via GPS receiver of the aforementioned releases and photo documentation of the current Site conditions. Based on visual observation, approximately eight hundred and nineteen (819) square feet of surface area was impacted from the release assigned 2RP-2211; approximately five thousand and fifty-three (5,053) square feet of surface area was impacted from the release assigned 2RP-4095. Between January 22, 2020 and February 25, 2020, a series of test trenches and/or hand-augered soil bores were advanced within the release footprints in an effort to define the vertical and horizontal extent of impacted soil. Field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3 (2RP-2211) and Figure 3A (2RP-4095). Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data associated with **2RP-2011**, **thirteen (13)** delineation soil samples (TT1@2', TT1@4', TT2@2', TT2@4', AH1@2', AH1@6', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2' and AH4@4) were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on field observations and field test data associated with **2RP-4095**, **twenty (20)** delineation soil samples (TT1@2', TT1@12', TT2@2', TT2@4', TT3@2', TT3@4', AH1@2', AH1@4', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2', AH4@4', AH5@2', AH5@4', AH6@2', AH6@4', AH7@2' and AH7@4') were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on laboratory analytical data, soil within the affected areas associated with **2RP-2211** and **2RP-4095** yielded concentrations below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard, therefore the soil has not been excavated from the affected areas.

### 5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Laboratory analytical results from soil samples collected during delineation events indicated remediation was not required, therefore the affected area was left in-situ and not altered. Vegetation within the affected area will be monitored and may be reseeded with an agency-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site, if necessary.

#### 6.0 SOIL CLOSURE REQUEST

Delineation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical from the collected soil samples indicated soil in the affected area(s) was not impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride was below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech recommends WPX Energy, Inc. provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the RDU 12 Site (**2RP-2211 and 2RP-4095**).

### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Characterization Report and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of WPX Energy, Inc. Use of the information contained in this report is prohibited within the consent of Etech and/or WPX Energy, Inc.

## 8.0 **DISTRIBUTION**

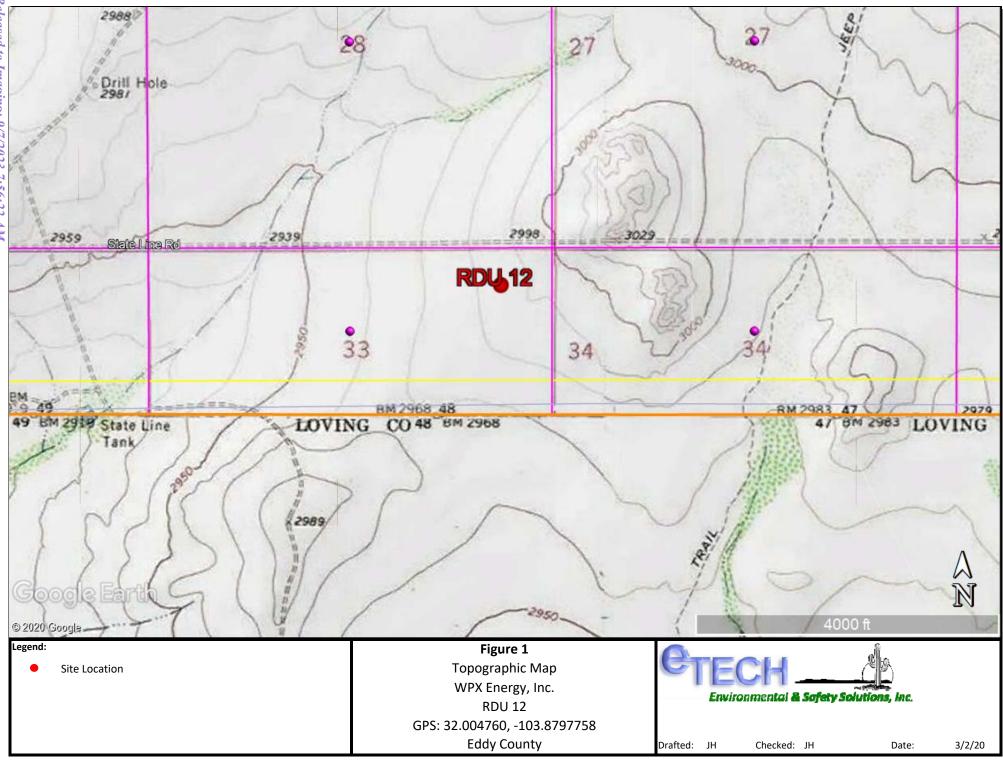
WPX Energy, Inc. 5315 Buena Vista Dr. Carlsbad, NM 88220

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2* 811 S. First Street Artesia, NM 88210

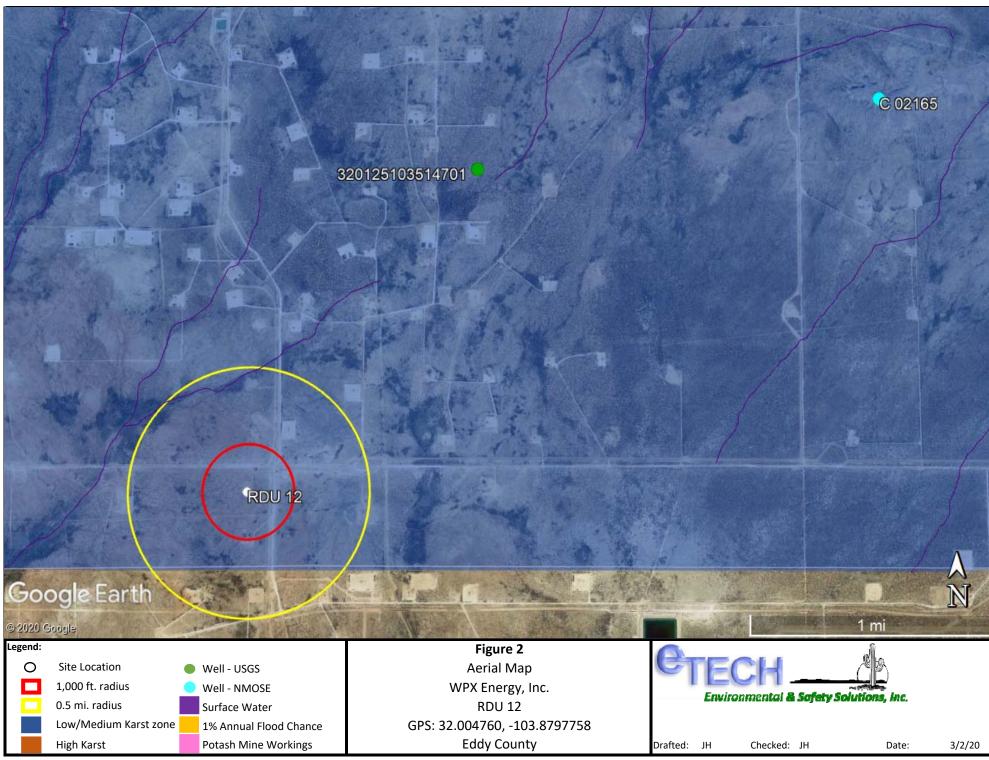
(Electronic Submission)

# Figure 1 Topographic Map



Received by OCD: 8/22/2023 6:52:20 AM

# Figure 2 Aerial Proximity Map



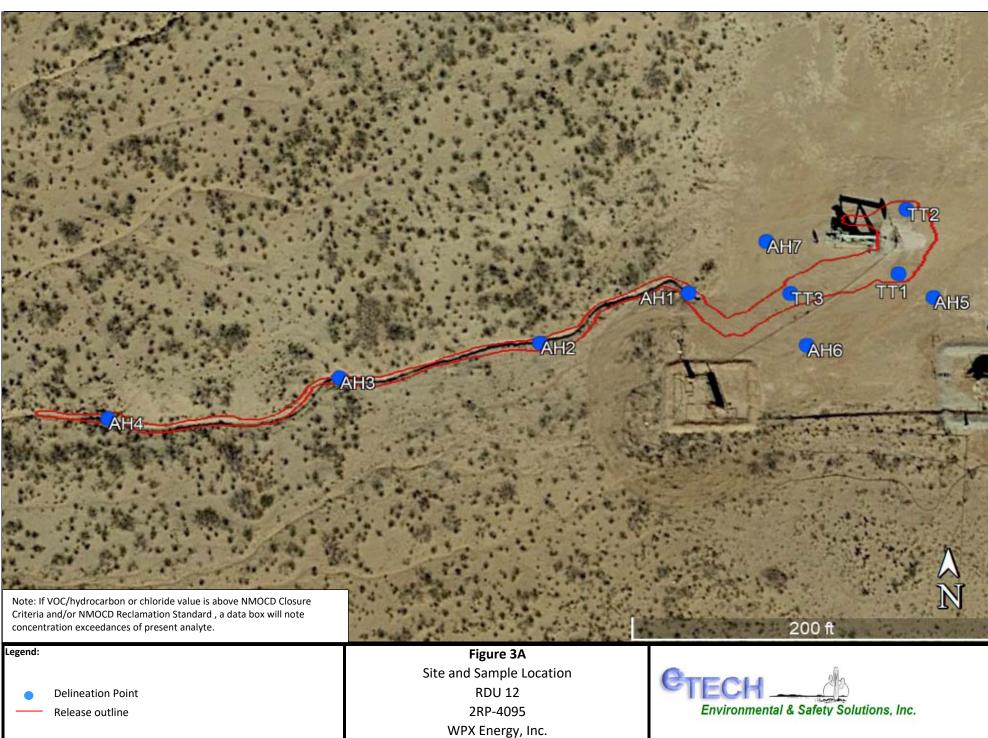
Received by OCD: 8/22/2023 6:52:20 AM

## Figure 3 Site and Sample Location Map



Page 41 of 143

Received by OCD: 8/22/2023 6:52:20 AM



GPS: 31.004760, -103.879775

Drafted: JH

Checked: JH

2/28/20 Page 42 of 143

Date:

# Table 1Concentrations of BTEX, TPH, and/or Chloride in Soil

Released to Imaging: 9/7/2023 7:56:22 AM

	TABLE 1 CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL WPX Energy, Inc. ROSS DRAW 12 2RP-2211												
	SW 846 8026B SW 846 8015M Ext.												
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)		
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
TT 1	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
TT 2	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
TT 2	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	5,310		
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,970		
AH 1	2/25/2020	6'	In-situ	ND	ND	ND	ND	ND	ND	ND	153		
AH 2	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	166		
AH 2	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 3	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	156		
AH 3	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	129		
AH 4	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 4	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	165		
NOTES:	<u>Closure Cri</u>	teria		10	50	-	-	1,000	-	2,500	20,000		

NOTES:

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

.

	TABLE 1 CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL WPX Energy, Inc. RDU 12 2RP-4095 SW 846 8026B SW 846 8015M Ext. 300.0 Cl												
Sample ID	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$												
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,360		
TT 1	1/22/2020	12'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
TT 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	36.0		
TT 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	108		
TT 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	891		
TT 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	222		
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	302		
AH 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 4	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 4	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 5	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND		
AH 5	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	178		
AH 6	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	173		
AH 6	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	155		
AH 7	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	212		
AH 7	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	142		
(	Closure Crit	teria		10	50	-	-	1,000	-	2,500	20,000		

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

## Appendix A Depth to Groundwater Information



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface
USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V
 United States
 GO

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Groundwater levels for the Nation

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320125103514701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320125103514701 26S.30E.22.44124

Eddy County, New Mexico Latitude 32°01'25", Longitude 103°51'47" NAD27 Land-surface elevation 3,044 feet above NGVD29

**Output formats** 

Tab-separated data Graph of data

Reselect period

Table of data

Date	3	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1987-	10-21		D	117.03			2		S		

Explanation									
Section	Code	Description							
Water-level date-time accuracy	D	Date is accurate to the Day							
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot							
Status		The reported water-level measurement represents a static level							
Method of measurement	S	Steel-tape measurement.							
Measuring agency		Not determined							
Source of measurement	U	Source is unknown.							
Water-level approval status	А	Approved for publication Processing and review completed.							

<u>Ouestions about sites/data?</u> <u>Feedback on this web site</u> <u>Automated retrievals</u> <u>Help</u> <u>Data Tips</u> <u>Explanation of terms</u> <u>Subscribe for system changes</u> <u>News</u>

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Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-03-02 09:57:48 EST 0.28 0.26 nadww01



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### National Water Information System: Web Interface

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Groundwater levels for the Nation

### Search Results -- 1 sites found

Agency code = usgs site\_no list = • 320125103514701

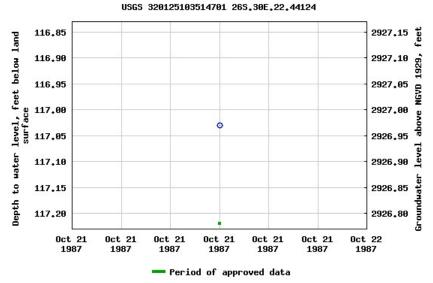
#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 320125103514701 26S.30E.22.44124

Available data for this site Groundwater: Field measurements Eddy County, New Mexico Hydrologic Unit Code 13070001 Latitude 32°01'25", Longitude 103°51'47" NAD27 Land-surface elevation 3,044 feet above NGVD29 Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-03-02 09:55:57 EST 0.66 0.55 nadww01





# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fil closed)	laced, ined,							7 2=NE st to lar	3=SW 4=SE gest) (N	) IAD83 UTM in n	neters)	(In	feet)	
		POD		~	~	~									
POD Number	Code	Sub-	County		Q		Sec	Twe	Rna	х	Y	DistanceDep	thWollDor		Water
C 04068 POD1	Coue	CUB	ED				16	26S	30E	604397	3546018	4722	uwenDe	nii water C	Juinin
<u>C 02165</u>		С	ED				24	26S	30E	610036	3544121*	4967	440	180	260
<u>C 02038</u>		С	ED	3	2	4	26	26S	29E	599204	3541992* 🥌	6622	200		
<u>C 03483</u>		С	ED	4	4	4	05	26S	30E	604296	3548251 🌍	6907	700	200	500
<u>C 03581 POD1</u>		CUB	ED	4	4	4	05	26S	30E	604298	3548291 🌍	6946	800	320	480
<u>C 01361</u>		CUB	ED	3	4	3	05	26S	30E	603240	3548157 🌍	7124	775	184	591
<u>C 01360</u>		CUB	ED	4	3	3	05	26S	30E	602997	3548152 🌍	7211	770	173	597
<u>C 01354 X-3</u>		CUB	ED	2	1	3	23	26S	29E	598323	3543837 🌍	7838	170		
<u>C 03605 POD1</u>		CUB	ED	4	2	3	27	26S	29E	596990	3541983 🌍	8831	45	0	45
<u>C 02248</u>		CUB	ED	1	2	3	08	26S	31E	612942	3547316* 🌍	9196	300	292	8
<u>C 02249</u>		CUB	ED	1	2	3	08	26S	31E	612942	3547316* 🌍	9196	300	292	8
<u>C 01777</u>		С	ED				08	26S	31E	613245	3547409* 🌍	9490	325	300	25
											Averag	ge Depth to Wate	r:	215 f	eet
												Minimum Dep	th:	0 f	eet
												Maximum Dep	th:	320 f	eet

#### Record Count: 12

#### UTMNAD83 Radius Search (in meters):

**Easting (X):** 605808.6733984414

984414 Northing (Y): 3541511.5491144983

Radius: 10000

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/1/20 1:47 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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		0				

ed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/2/20 7:57 AM

WATER RIGHT SUMMARY

## Appendix B Field Data and Soil Profile Logs

Project: RDU 12 (2RP-2	211. 2RP-4095)		Sample Log Date:	Jun 23, 2020
Project Number:		Latitude:	32.00476033 Longitude:	-103.8797759
Sample ID	PID/Odor		Chloride Conc.	GPS
TT CI C3:	opm 1.7   none	4.0	580	32.004571,-103.879486
<u>2' @3:1</u> <u>4' @3:2</u>		3.8	528	
TT 2 0 1' 03:3		<u> </u>	08<br 632	22 404 872 103 103 103 1045
2' @ 3:4		4.0	580	32.004572, -103.879545
4 92:0		1.8	132	
<u>AHI @ 1'@ 1:00</u>		7.6		32.004553,-103.879442
2' @ 1:15		6.6	1,488	
9 (* 1:30	pm 1.7/none	7.0	1,696	* Auger max depth
5				
		HVMMTT, JAND JEFFE ALBERTAN MEN AND AN ANNAL AND		
		· · · · · · · · · · · · · · · · · · ·		

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ## Refusal = SP #1 @ 4'-R Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas

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etech_			Soil Prof	file	
Environmental & Safety Project:				Date: Jon	22-23,2020
Project Number:	RDU 12 (2RP-2211) 11755	Latitude:	32.00476033	_Longitude:	-103.8797759
Depth (ft. bgs)			Desc	cription	
1	Inst n	redium brown s	silly sand trace	caliche	
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<b>Environmental &amp; S</b>	Safety Solution	s, Inc.			Sa	mple L	og	
Project:	0.01	140 /000 0					Date:	2.25.20
Project Number	::	J 12 (2RP-2 11	211) 755	Latitude:	32.004	76033	_Longitude:	-103.8797759
San	nple ID		PID/Odor		Chloride	Conc.		GPS
AHZQ	/'	3:20 pm	opone	2.2			20	32.004631, - 103.879679
	2'	3:25 pm	0.4/none	1.6			48	
	3'	3:70 pm	ofnone	1.4	$\rightarrow$		24	
AHJO	7	3:40 pm		1.0		<)2	24	
<u> </u>	 z'	1	0,7/none	1.8	$\rightarrow$	16	8	32.004560, -103 879742
	2'	4:00 pm	o/none	1.4		12		
	41	4:10 pm 4:15 pm	·· //	1.0		<1Z		
AH4 @	1'	4:20 pm	1.3 more	1.2		<12		70
<u> </u>	Z'	4:25 pm		1.8		<124 169		32.004450, -103.879646
	3'		·· //	2.0		191		
111 1 0	4'	4:45 pm		1.0		< 124		
AH I @	6'	5:15 pm	0/none	1.4		124		
	1200	·						
				·····				
						-		
Sample Point =	SP #1 @ ##	etc			Test Trench =	TT #1 @ ##		Personalese CD #4 C Pt
Floor = F					Refusal = SP #			Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1
Sidewall = :	SW #1 etc			Soil Intend	ed to be Deferr	ed = SP #1 @	9 4' In-Situ	GPS Sample Points, Center of Comp Areas

				Soil Prot	file	
Project:		0 2244)			Date:	2.25.20
Project Number:	RDU 12 (2R	11755	Latitude:	32.00476033	_Longitude:	-103.8797759
Depth (ft. bgs)				Des	cription	
1		light -	medium brown si	Hy sand , poorly so		
2			brown Silty s			
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25		Particul Electronic and a second comparison	INVESTIGATION OF CONSISTS OF THE OTHER ADDRESS	8886-7888-1988-198-50-9889-1988-198-991-981-198-991-98-991-98-991-98-991-98-991-98-991-98-991-98-991-98-991-98		
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<b>D</b>		ns, Inc.				Date:	Jun 22-23, 2020
Project:		(2RP-2211	RP-4095)				-
Project N	lumber:		755	- Latitude:	32.00476033	Longitude	:103.8797759
							000
	Sample ID		PID/Odor		Chloride Conc.		GPS
TTI	0 10	1:35 m	10.0 / mild	7.2	1,81	2	37.004723, -103.879 774
		1:45pm			744		
		1:50 pm		5.4	916	,	
		1:55 pm		6.8	1,58	8	
		2:00 pm		~ 4.8	80	4	
	10'0	2:15 pm	5.4 mild	5.0	864	1	
	12'0	2:20 pm	D.1/none	1.0	210	8	
TTZ	0 10	10:30 am	2.0 / more	5.6	1,00	48	32.004828,-103.879758
		10:45 am		4.6	744	1	
		10:50 am		2.0	144		
TT3 (	0 1.6	11:00 am 1	.3/ nore	6.2	1,30	4	32.004690, -103.879971
			o/none	6.0	1,22	20	
		11:20 am	p' r	1.4	610	8	
AHI	11.0	11:57 am		3.0	348		32.004691, -103.880156
		12:00 pm "		1.8	132		
	4' C	2:05 pm *	. "	1.2	< 108		
AHZ	PIP	2:07 pm	o/none	Z.4	232		32.004609, -107.880425
		2:10 pm "		1.0	< 108	3	
	4' 0 1	2:15 pm "		0.8		••	
AH 3		2:17 pm 0	> mone	2.0	164		32.004552, -107.880790
		2:20 pm "	7	1.6	108		
	4'01	2:25 pm "	••	1.0	<108		
AH 4	QI'P	2:27 pm 0	I none -	1.8	132		32.004484, -103.881212
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Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc

Sidewall = SW #1 etc

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Area** 

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Project	Soil Profile
· Ulert.	Data: 7 12 22 2 2 27
Project Number: RDU 12 (;	2RP-4095) Date: Jan 22-23-2020
	11755 Latitude: 32.00476033 Longitude: -103.8797759
Depth (ft. bgs)	
1	Description
2	Caliche, + met brown silty sand light - met brown silty sand
3	Inger - more proved silly sand
4	medium brown silly sand, caliche in purt
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7	melium dK brown clay of solly sand
8	
9	redum brown silly sond, clay in part, trace caliche
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Sample Log

Project: RDU 12 (2RF	2-40951			Date:	2.52.20
	11755	Latitude:	32.004760	33 Longitude:	-103.8797759
Sample ID					
AH 5 @ 1:55pm 1	PID/Odor		Chloride Co		GPS
- fm f	1.6/ none	2.2	$\rightarrow$	220	32.004674 -103.879735
2:00pm 2' 2:10pm 3'	10 Inone	1.8		168	
	n / //	1.0		<124	
2:15pm 41 Att 6 @ 2:20 pm 11	0/ none	~].0	$\rightarrow$	<124	
	Z.7/none	1.6		148	37.004593, -107.979937
2:30pm 2'	1.3/ none	1.0	$\rightarrow$	<124	
2:55pm 3'	0/none	~1.0		2124	
AH7 @ 2:50pm 11	11 11	10 10	$\rightarrow$	4124	
	0/ none	~2.4	$\rightarrow$	~248	37.004753, -103.880030
3:00pm 21	n u	1.2		c 124	-,
3:10pm 3'	r //	1.6	$\rightarrow$	148	
3: 15 pm 41	(* <i>4</i>	1.0		<124	
		and the second of the second second second			
	_				
					- E
Sample Point = SP #1 @ ## etc			Test Trench = TT #1	@ ##	Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc Sidewall = SW #1 etc

ιpι f1 @ 5b or SW #1b

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

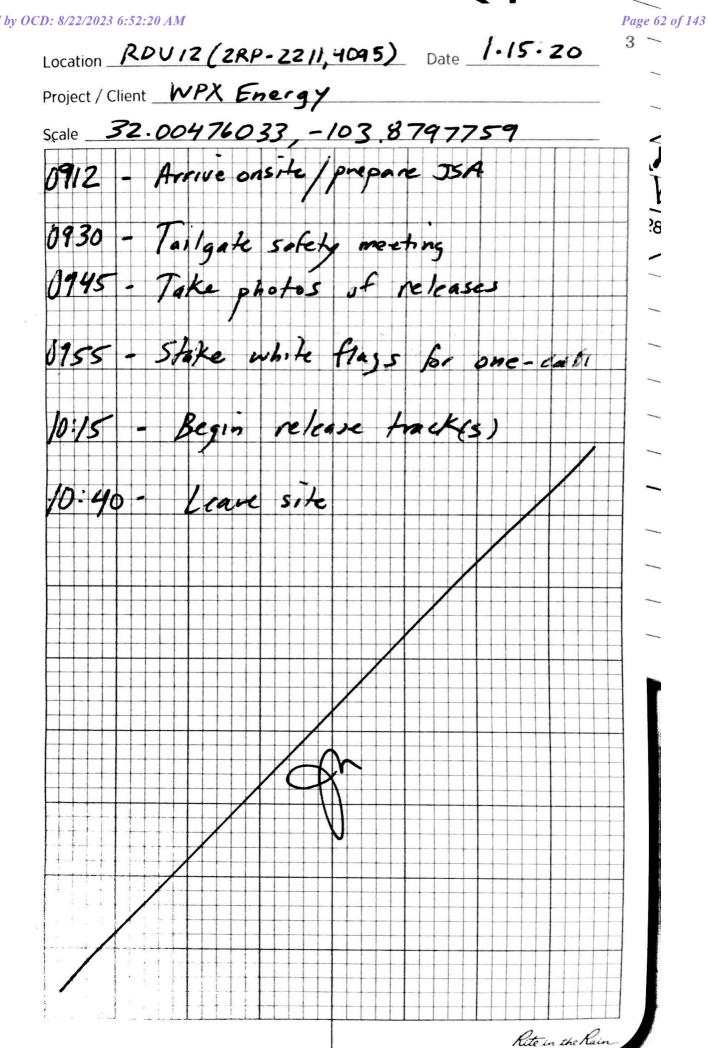
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

**GPS Sample Points, Center of Comp Areas** 

Received by OCD: 8/22/2023 6:52:20 AM

TECH_				Soil Pro	file		
Environmental & Saf					Date:	05.25.5	
Project:	RDU 12 (21						
Project Number:		11755	Latitude:	32.00476033	Longitude:	-103.8797759	
epth (ft. bgs)				Des	cription		
1		light -	med dk brown		•		
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Received by OCD: 8/22/2023 6:52:20 AM



### Released to Imaging: 9/7/2023 7:56:22 AM

### Scanned with CamScanner

Received by CD1 8/22/2023 6:52:20 MUIZ Page 63 of 143 \_\_\_\_ Date \_\_\_\_\_.20 Project / Client 28P-4095 / 28P-2213 (WAX) 32.00476033, -103.8797759 1:20 pm - Onsite w/ Kemp (operator) prepare JSA, conduct tailgate Safety meeting, calibrate Pib 1:25pm - Site Walkthrough, confirm ut, 1,2 locates: Yellow flags down 1:27pm - Began delineation activities for ZRP- 4075 2:30pm - Call Delaware Basin to schedule line remark to ronfirm subsurface gas line . (nest of pad from meter 2:45 pm - Prep for delineation activities (ZRP-2211) inside funk battery 3: DOpm - Utilize backhoe to potnole over fonce. 3:05 pm - Begin delineation activities hr (-2211) 4:15pm - Finish, load equipment 4:30pm - offsite na

Received by QQD: 8/22/2023 6:52:20 AM Location \_\_\_\_\_\_\_\_\_\_\_ Page 64 of 143 1.23.20 Date (WPA) Project / Client 2RP-4095 /2RP-2211 32.004760332, - 103. 879775899 10:15 am - Confirmed w/ Delaware Basin, site has been remarked, can cont. to delinate on pad. 10:20 an- prop JSA - tailgate solely meeting w/ homp. Inte equipment, calibrate ISA PID 10:25 am - Continue delinenting 228- 4075 11: 45 am - Instand, borings in pasture / wash 12:35 pm - Finish boring + for 2RP-4095 1:00 pm Install augerhole inside tank hatting inaccessible N/ equipment for - 2211. 1:45 pm - Finish delineation activities 2:30 pn- load equipment 3:00 pm - offite to robmit samples. \* reference Sample map/log for Scheding

Received by OCD: 8/22/2023 6:52:20 AM 26 Page 65 of 143 Location ROV12 (2RP-2211, 4095) Date 2/25/20 Project / Client WPX Energy 1:00 pm - Onsite, JSA prep, tailgate safety meeting, Calibrate PiD, prep screening Cquipment 1:30 pm - Begin doliniating (cont.) 2211 & 4095 1:30 pm-5:30 pm - Finish delineating site / screeining Begin jaring samples to take to lab 5:50 pm - Offsite

# **Appendix C Laboratory Analytical Reports**

Received by OCD: 8/22/2023 6:52:20 AM



### **Analytical Report**

### **Report Summary**

Client: WPX (Carlsbad)

Samples Received: 1/24/2020 Job Number: 04108-0639 Work Order: P001079 Project Name/Location: RDU 12 (2RP-2211)

Walter Hinkow

Date: 1/30/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

### **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT2 @ 2'	P001079-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001079-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 2'	P001079-03A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 4'	P001079-04A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 2'	P001079-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 4'	P001079-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Projec	t Name:	RDU 12 (2RP-221		11)				
5315 Buena Vista Dr	Projec	t Number:	04108-0639					<b>Reported:</b>	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	a Laumbach	h			01/30/20 16:46	
		Т	T2 @ 2'						
		P0010	79-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	80								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		90.0 %	50	-200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	50	-150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	t Name:	RDU	RDU 12 (2RP-2211)					
5315 Buena Vista Dr	Project	t Number:	0410	04108-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project	t Manager:	Lynd	a Laumbach				01/30/20 16:46	
		Т	T2 @ 4'						
			79-02 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		101 %	50-	-200	2005001	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	50-	-150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Projec	oject Name: RI		J 12 (2RP-22	11)					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				Reported:		
Carlsbad NM, 88220	Projec	et Manager:	Lynd	la Laumbach	Laumbach			01/30/20 16:46		
	TT1 @ 2'									
		P0010	79-03 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	2005010	01/27/20	01/29/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/OR	0									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Surrogate: n-Nonane		87.9 %	50	-200	2005001	01/27/20	01/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	50	-150	2005010	01/27/20	01/29/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Project Name:		RDU	RDU 12 (2RP-2211)						
5315 Buena Vista Dr	Project Number:		0410	04108-0639					Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	Lynda Laumbach					01/30/20 16:46	
TT1 @ 4'										
P001079-04 (Solid)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150		2005010	01/27/20	01/29/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/OR	0									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Surrogate: n-Nonane		93.5 %	50-200		2005001	01/27/20	01/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.7 %	50-	-150	2005010	01/27/20	01/29/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Projec	t Name:	RDU	RDU 12 (2RP-2211)						
5315 Buena Vista Dr	Projec	t Number:	0410	04108-0639					Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	la Laumbach	01/30/20 16:	01/30/20 16:46				
		A	H1 @ 2'							
		P0010	79-05 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	2005010	01/27/20	01/29/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/Ol	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Surrogate: n-Nonane		85.4 %	50	-200	2005001	01/27/20	01/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	50	-150	2005010	01/27/20	01/29/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	5310	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Projec	t Name:	RDU	12 (2RP-22	11)					
5315 Buena Vista Dr	Projec	Project Number: 04108-0639						Reported:		
Carlsbad NM, 88220	Projec	t Manager:	Lynd	la Laumbach	l		01/30/20 16:46			
AH1 @ 4'										
			79-06 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	2005010	01/27/20	01/29/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D		
Surrogate: n-Nonane		89.8 %	50	-200	2005001	01/27/20	01/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.7 %	50	-150	2005010	01/27/20	01/29/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1970	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

#### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

			•		v					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared:	01/27/20 1 A	Analyzed: (	01/30/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.96		"	8.00		99.5	50-150			
LCS (2005010-BS1)				Prepared:	01/27/20 1 A	Analyzed: (	01/28/20 1			
Benzene	5.07	0.0250	mg/kg	5.00		101	70-130			
Foluene	5.15	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.07	0.0250		5.00		101	70-130			
,m-Xylene	10.1	0.0500		10.0		101	70-130			
o-Xylene	5.03	0.0250		5.00		101	70-130			
Fotal Xylenes	15.1	0.0250	"	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		"	8.00		101	50-150			
Matrix Spike (2005010-MS1)	Sou	ırce: P001077-	01	Prepared:	01/27/20 1 A	Analyzed: (	01/28/20 2			
Benzene	4.90	0.0250	mg/kg	5.00	ND	97.9	54.3-133			
Foluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.95	0.0250		5.00	ND	99.0	61.4-133			
,m-Xylene	9.84	0.0500	"	10.0	ND	98.4	63.3-131			
-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.4	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.20		"	8.00		103	50-150			
Matrix Spike Dup (2005010-MSD1)	Sou	ırce: P001077-	01	Prepared:	01/27/20 1 A	Analyzed: (	01/28/20 2			
Benzene	4.87	0.0250	mg/kg	5.00	ND	97.5	54.3-133	0.454	20	
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130	0.454	20	
Ethylbenzene	4.94	0.0250	"	5.00	ND	98.8	61.4-133	0.212	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	0.258	20	
-Xylene	4.91	0.0250		5.00	ND	98.2	63.3-131	0.239	20	
Total Xylenes	14.7	0.0250	"	15.0	ND	98.2	63.3-131	0.252	20	
Surrogate: 4-Bromochlorobenzene-PID	8.21		"	8.00		103	50-150			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

#### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

# Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005001 - DRO Extraction EPA 3570										
Blank (2005001-BLK1)				Prepared:	01/27/20 0 /	Analyzed: (	01/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			
LCS (2005001-BS1)				Prepared:	01/27/20 0 4	Analyzed: (	01/27/20 1			
Diesel Range Organics (C10-C28)	450	25.0	mg/kg	500		90.1	38-132			
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
Matrix Spike (2005001-MS1)	Sou	rce: P001072-	01	Prepared:	01/27/20 0 4	Analyzed: (				
Diesel Range Organics (C10-C28)	479	25.0	mg/kg	500	29.1	90.0	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.7	50-200			
Matrix Spike Dup (2005001-MSD1)	Sou	rce: P001072-	01	Prepared:	01/27/20 0 4	Analyzed: (	01/27/20 1			
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500	29.1	90.9	38-132	0.962	20	
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

#### Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A	Trobuit	2	Cinto	20101		, uille	2	10.0	2	110000
Blank (2005010-BLK1)				Prepared: 0	)1/27/20 1 A	Analyzed: 0	1/30/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.1	50-150			
LCS (2005010-BS2)				Prepared: 0	01/27/20 1 A	Analyzed: 0	1/28/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			
Matrix Spike (2005010-MS2)	Sour	ce: P001077-	01	Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		"	8.00		89.0	50-150			
Matrix Spike Dup (2005010-MSD2)	Sour	ce: P001077-	01	Prepared: 0	01/27/20 1 A	Analyzed: 0	1/28/20 2			
Gasoline Range Organics (C6-C10)	45.1	20.0	mg/kg	50.0	ND	90.2	70-130	6.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		"	8.00		89.4	50-150			

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WPX (Carlsbad)	Proje	ect Name:	R	DU 12 (2RP-	2211)					
5315 Buena Vista Dr	Proje	ect Number:	0	4108-0639		Reported:				
Carlsbad NM, 88220	Proje	ect Manager:	L	ynda Laumba	ch		01/30/20 16:46			
	Anio	ns by 300.0	0/9056A	- Quality	Control					
	En	virotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005019 - Anion Extraction EPA 3	00.0/9056A									
Blank (2005019-BLK1)				Prepared &	Analyzed:	01/28/20 1				
Chloride	ND	20.0	mg/kg							
LCS (2005019-BS1)				Prepared &	Analyzed:	01/28/20 1				
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (2005019-MS1)	Sour	ce: P001076-	01	Prepared &	Analyzed:	01/28/20 1				
Chloride	1600	100	mg/kg	250	1360	96.3	80-120			
Matrix Spike Dup (2005019-MSD1)	Sour	ce: P001076-	01	Prepared & Analyzed: 01/28/20 1						

1620 100 mg/kg 250 1360 104 80-120 1.26 20

QC Summary Report

Comment:

Chloride

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above	e the reporting limit
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NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information	Chain of Cus	tody		ciares a			•	E		TAT	Pa	ge /	
Client:	Report Attention				the second second	b Use				TAT		PA Progra	
Project: RPU12 (ZRP-2211)	Report due by:			WO#		110223111-2		Number	2012/2012/06/17	1D 3D	RCRA	CWA	SDW
Project Manager:	Attention:		PO	1010	579			108-0					
Address:	Address:				·		nalys	is and N	ethod			100.03 CT / C	ate
City, State, Zip	City, State, Zip		015	015				F				NM CO	UT A
Phone:	Phone:		ο <u>γ</u> 8(	y 8(	12	0		8	2			V	N
Email: Lynda @ WPX	Email: 10seph @ etcchenv	m	So t	30 b	80	826	601	<b>0</b> 30				X	
Time         Date         No           Sampled         Sampled         Matrix         No	5 7	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	2			Rem	narks
3:45pm 1.22.20 5 1 TT2	a z'	1						Х	-				
3:50pm 1.22.26 5 1 TTZ	@ 4'	2						(					
3:15pm 1.22.20 1 TTI	@ Z'	3											
3:15pm 1.22.20 1 TT1 3:20pm 1.22.22 1 ( TT1 1:15pm 1.23.20 1 AH	@ 4 !	Ч								-			
1:15pm 1.23.20 AH	1@Z'	5											
1:30pm 1 V 1 Att	1 @ 4 1	le						5					
													5
	-												
Additional Instructions:										2			
(field sampler), attest to the validity and authenticity of this sample. I am ime of collection is considered fraud and may be grounds for legal action. !		ample location	n, date o	or				have a fill a state of the second			be received on ic but less than 6 °	i - waaraa ka k	1997-1999 BELIER POSSA CO-
Relinquished by: (Signature) Date 1.23.20 4:	25 pm Received by: (Signature)	Date /-23-2	Time 1625			5	Lab Use Only Received on ice:						
elinquished by: (Signature) Date Time	Time Received by: (Signature) Date Time T1 T2							<u>T3</u>					
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Ot		Containe	er Typ				poly/	plastic, a	ag - an	nber glas	s, v - VOA	1	
Note: Samples are discarded 30 days after results are reported un amples is applicable only to those samples received by the labora									nt expei	nse. The re	port for the	analysis of t	he above
Benvirotech	5796 US Highway 64, Farmington, NM 874					Ph (50)	5) 632-06	515 Fx (505)	632-1865	antiney Atomic and a second			envirotech-Ino
Analytical Laboratory	Three Springs • 65 Mercado Street, Suite 1	115, Durango, CO	81301			Ph (970	0) 259-00	515 Fr (800)	362-1879			laboratory	envirotech-in

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Project Information	Chain of Cus	tody		10				the star	-	Pa	age of f
Client: NPX	Report Attention	Lab Use Only					TAT 1D 3D		PA Program		
Project: RPV12 (ZRP-2211)					Lab WO# Job Number POOIO79 04108-0039					RCRA	CVVA SDVV
Project Manager: Lynda Laumbach	Attention:		PO	io i c	579			8-0630		La Carrier	
Address:	Address:					Ar	alysis a	nd Metho			State NM CO UT A
City, State, Zip	City, State, Zip Phone:		801	8015				5			
Phone: Email: Lynda @ WPX	Email: joseph @ etcchenv		yd C	yd (	3021	260	300.	8		Lat fier	
Time Date No	Ellian. Joseph (& Efterient	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010 Chloride 300.0	BUDO			
Sampled Sampled Matrix Containers Sample ID		Number	DRO	GRO	BTE	VOC	Chlo	B			Remarks
3:45pm / 22:00 5 1 TTZ	az'							X			
		2						1			
3:50pm 1.22.26 5 1 TTZ	a 9	and a superior						-			
3:15pm 1.22.20 1 TT1	12 G	3									
3:20pm 1.22.26 1 ( TT1	a 41	4									
1:15pm 1.23.20   A++ 1	@ Z'	5									
1:30 1 Ne 1 Att 1	Q 4 1	le						5			
1.50m V I IIII	C										
Additional Instructions:											
I, (field sampler), attest to the validity and authenticity of this sample. I am awa		ample location	n, date d	or							ice the day they are sampled or °C on subsequent days.
time of collection is considered fraud and may be grounds for legal action. Sam Relinquished by: (Signature) Date Time	Received by: (Agnature)	Date	- 10 - 10	Time	-		TERES EN		Lab	se Only	
	pm 2 ~ S D	1-23-2	2020		62	5	Receive	d on ice	1000	N	
Reinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time			Г1		T2		<u>T3</u>
June to 1.24.2020 191	5 Raine Loan	1242			1:31		AVG Te	a manual providence	4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	0						and the second second		mber glas		
Note: Samples are discarded 30 days after results are reported unless samples is applicable only to those samples received by the laborator	other arrangements are made. Hazardous samp	limited to th	eturne	d to cli ount pa	ient or aid for	dispos on the	ed of at t report.	ne client exp	ense. The r	eport for the	e analysis of the above
	, which this cock the hability of the laborabity is		ie unio	ant pe		on the	oporti				
Renvirotech	5796 US Highway 64, Farmington, NM 87	401				Ph (505	632-0615	Fx (505) 632-186	5		envirotech-inc.co
Analytical Laboratory	Three Springs • 65 Mercado Street, Suite	115, Durango, CO	81301			Ph (970	259-0615	Fr (800) 362-187	9		laboratory@envirotech-inc.co

Released to Imaging: 9/7/2023 7:56:22 AM

Received by OCD: 8/22/2023 6:52:20 AM



# **Analytical Report**

## **Report Summary**

Client: WPX (Carlsbad)

Samples Received: 2/27/2020 Job Number: 04108-0639 Work Order: P002091 Project Name/Location: RDU 12 (2RP-2211)

Walter Hinking

Date: 2/28/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH1 @ 6'	P002091-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 2'	P002091-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 4'	P002091-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 2'	P002091-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 4'	P002091-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 2'	P002091-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 4'	P002091-07A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Proje	et Name:	RDU	J 12 (2RP-22					
5315 Buena Vista Dr	Proje	et Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Proje	et Manager:	Lynd	la Laumbach	02/28/20 13:37				
		A	H1 @ 6'						
			91-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		89.5 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	153	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Proje	et Name:	RDU	12 (2RP-22					
5315 Buena Vista Dr	Proje	et Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Proje	et Manager:	Lynd	la Laumbach	02/28/20 13:37				
		A	H2 @ 2'						
		P0020	91-02 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		84.8 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
- Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	166	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	t Name:	RDU	12 (2RP-22	11)					
5315 Buena Vista Dr	Project	t Number:	0410	8-0639			Reported:			
Carlsbad NM, 88220	Project	t Manager:	Lynd	a Laumbach				02/28/20 13:37		
		A	H2 @ 4'							
		P0020	91-03 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Surrogate: n-Nonane		92.0 %	50-	-200	2009029	02/27/20	02/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Projec	t Name:	RDU	12 (2RP-22	11)				
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	a Laumbach				02/28/20 13:	37
		A	H3 @ 2'						
		P0020	91-04 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		93.8 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	156	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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e	nvirotech Analytical Laboratory	
WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)
5315 Buena Vista Dr	Project Number	04108 0639

5315 Buena Vista Dr	Project	Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project	Manager:	Lynd	a Laumbach				02/28/20 13:	37
		A	H3 @ 4'						
			91-05 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		95.2 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	129	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-22	11)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project	Manager:	Lynd	la Laumbach				02/28/20 13:	37
		Α	H4 @ 2'						
			91-06 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		87.2 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	t Name:	RDU	12 (2RP-22	11)				
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project	t Manager:	Lynd	a Laumbach				02/28/20 13:	37
		Α	H4 @ 4'						
			91-07 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		96.7 %	50-	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	165	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

#### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

			·		v					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared:	02/27/20 0 4	Analyzed: 0	02/27/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
p-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.34		"	8.00		104	50-150			
LCS (2009030-BS1)				Prepared:	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Fotal Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
Matrix Spike (2009030-MS1)	Sou	ırce: P002090-	01	Prepared:	02/27/20 0 4	Analyzed: (	2/27/20 1			
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
o,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (2009030-MSD1)	Sou	ırce: P002090-	01	Prepared:	02/27/20 0 4	Analyzed: 0	02/27/20 1			
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Fotal Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

#### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

### Envirotech Analytical Laboratory

			-		-					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared:	02/27/20 0 /	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.1		"	50.0		92.2	50-200			
LCS (2009029-BS1)				Prepared:	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			
Matrix Spike (2009029-MS1)	Sou	rce: P002090-	01	Prepared:	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	48.3		"	50.0		96.5	50-200			
Matrix Spike Dup (2009029-MSD1)	Sou	rce: P002090-	01	Prepared:	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

#### Nonhalogenated Organics by 8015 - GRO - Quality Control

	En	virotech A	Analyti	cal Labor	atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A	Ittout	2	ento	Lever	rtosuit	, viale		iu b		110000
Blank (2009030-BLK1)				Prepared: (	)2/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			
LCS (2009030-BS2)				Prepared: (	)2/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			
Matrix Spike (2009030-MS2)	Sour	ce: P002090-	01	Prepared: (	)2/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.2	50-150			
Matrix Spike Dup (2009030-MSD2)	Sour	ce: P002090-	01	Prepared: (	)2/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

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WPX (Carlsbad)	Pro	ject Name:	R	DU 12 (2RP-	2211)					
5315 Buena Vista Dr	Pro	ject Number:	04	4108-0639			Report	ed:		
Carlsbad NM, 88220	Pro	ject Manager:	L	ynda Laumba	ch		02/28/20 13:37			
	Anie	ons by 300.(	)/9056A	- Quality	Control					
	E	nvirotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009031 - Anion Extraction EP	A 300.0/9056A									
Blank (2009031-BLK1)				Prepared: (	02/27/20 0	Analyzed: 0	2/27/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: (	02/27/20 0	Analyzed: 0	2/27/20 1			
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)	Sou	rce: P002090-	01	Prepared: (	02/27/20 0	Analyzed: 0	2/27/20 1			

Matrix Spike (2009051-MIST)	50urce. 1 002090-01			riepareu. o	2/2//2007	maryzeu. (	12/2//201				
Chloride	331	100	mg/kg	250	ND	132	80-120			M1	-
Matrix Spike Dup (2009031-MSD1)	Source: P002090-01		Prepared: 0	02/27/20 0 A	Analyzed: (	02/27/20 1					
Chloride	324	100	mg/kg	250	ND	130	80-120	2.05	20	M1	-

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

#### **Notes and Definitions**

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Chain	of	Custody
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Project: /	100	2(2)	RP-22	.,,)	Report due by:	·		Lab	WO#			Job N	lum	ber		1D	3D	RCRA	CWA	gram SE
roject Man	ager:				Attention:			P	507	205	71	04	108.	-06	39	$\times$				
Address:					Address:						· · ·	Analys	sis an	nd Me	ethod	1				State
City, State, Z	lip				City, State, Zip			15	15				ž						NM C	
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mail: L	yrda	- @	WPX		Email: josepha	etechenv. co	m	d O	0 pi	802	8260	300	2	05	WN	Ě				
	Date mpled	Matrix	No Containers	Sample ID	5 / 6	1	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BUDOL	TCEQ 1005	BGDOC - NM	BGDOC - TX			R	emarks
5:25pm 2"	15.20	5	1	AHIQG	)		T				_		X		8					
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:15pm		5	1	AH3@			5						X							
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field sampler), att	test to the va	lidity and au	thenticity of th		that tampering with or intentionally mis	labelling the sample location	n, date or				s								the day they are	
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elinquished by	: (Signatu	re)	Date	Time	Received by: (Signat	ture) D	Date		Time		1	ſ1				T2			Т3	
La	-2	D	2.2	6.2020 1	325 Kalina 2	onen	2/27/	20	9:	30	4	AVG T	emn	°C	4	STATE OF				1.4
				ueous, O - Other			Container	Type	g - gla	ass. r	o - pol	v/plas	stic. a	ag - a	mber	glass	. v - V	'OA		
ote: Samples are nly to those sam	e discarded ples receiv	30 days af ed by the la	iter results ar aboratory wi	e reported unless ot th this COC. The liab	her arrangements are made. Haza pility of the laboratory is limited to	rdous samples will be ret	urned to clie	ent or o	lisposed	d of at	t the cli	ent exp	ense.	The re	eport f	for the	analysi	s of the a	bove samples	is applic
3				ech	5796 US Highway 64, Farmington, 1				orne llore				1 Fx (5				de P	-	virotech-inc.	2000

Received by OCD: 8/22/2023 6:52:20 AM



# **Analytical Report**

## **Report Summary**

Client: WPX (Carlsbad)

Samples Received: 1/24/2020 Job Number: 04108-0639 Work Order: P001076 Project Name/Location: RDU 12 (2RP-4095)

Walter Hinking

Date: 1/30/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT1 @ 2'	P001076-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 12'	P001076-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 2'	P001076-03A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001076-04A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 2'	P001076-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 4'	P001076-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 2'	P001076-07A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 4'	P001076-08A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 2'	P001076-09A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 4'	P001076-10A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 2'	P001076-11A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 4'	P001076-12A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 2'	P001076-13A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 4'	P001076-14A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project	RDU	12 (2RP-40						
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	Manager:	Joseph Hernandez					01/30/20 13:41	
		Т	T1 @ 2'						
			76-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.2 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.6 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORG	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.6 %	50-	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.2 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.6 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1360	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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Alla	yneari	aboratory
		Analytical

WPX (Carlsbad)	Projec	t Name:	RDU	12 (2RP-40	95)					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				<b>Reported:</b>		
Carlsbad NM, 88220	Projec	et Manager:	Josep	Joseph Hernandez					01/30/20 13:41	
		T	F1 @ 12	,						
			76-02 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organic Compounds by 8260										
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: 1,2-Dichloroethane-d4		103 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: Toluene-d8		98.3 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: Bromofluorobenzene		92.4 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B		
Nonhalogenated Organics by 8015 - DRO/OR	0									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Surrogate: n-Nonane		90.7 %	50	-200	2005012	01/27/20	01/28/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: 1,2-Dichloroethane-d4		103 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: Toluene-d8		98.3 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: Bromofluorobenzene		92.4 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A		

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	Ana	lytical	Labor	atory

WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639			Reported:		
Carlsbad NM, 88220	Project	Manager:	Joseph Hernandez					01/30/20 13:4	41
		Т	T2 @ 2'						
			76-0 <u>3</u> (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORG	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		88.7 %	50-	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	36.0	20.0	mg/kg	1	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:		RDU	12 (2RP-40					
5315 Buena Vista Dr	Project	0410	8-0639		Reported:				
Carlsbad NM, 88220	Project	Manager:	Josep	oh Hernande:	Z			01/30/20 13:41	
	TT2 @ 4'								
		P0010	76-04 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.7 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.1 %	70	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		87.9 %	50	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.7 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.1 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	108	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	Project Name:			95)					
5315 Buena Vista Dr	Project	Project Number:						Reported:		
Carlsbad NM, 88220	Project	Manager:	Joseph	h Hernande:		01/30/20 13:41				
		Т	T3 @ 2'							
			76-05 (Sol	lid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organic Compounds by 8260										
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: 1,2-Dichloroethane-d4		107 %	70	130	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: Toluene-d8		96.9 %	70	130	2005016	01/28/20	01/28/20	EPA 8260B		
Surrogate: Bromofluorobenzene		91.3 %	70	130	2005016	01/28/20	01/28/20	EPA 8260B		
Nonhalogenated Organics by 8015 - DRO	'ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Surrogate: n-Nonane		76.9 %	50-2	200	2005012	01/27/20	01/28/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: 1,2-Dichloroethane-d4		107 %	70	130	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: Toluene-d8		96.9 %	70	130	2005016	01/28/20	01/28/20	EPA 8015D		
Surrogate: Bromofluorobenzene		91.3 %	70	130	2005016	01/28/20	01/28/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	891	40.0	mg/kg	2	2005019	01/28/20	01/28/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Project Name:		RDU	12 (2RP-40					
5315 Buena Vista Dr	Project	0410	8-0639		Reported:				
Carlsbad NM, 88220	Project	Manager:	Josep	oh Hernande:		01/30/20 13:41			
TT3 @ 4'									
			76-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.4 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		88.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		85.5 %	50	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.4 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		88.5 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:		RDU	J 12 (2RP-40					
5315 Buena Vista Dr	Projec	et Number:	0410	08-0639		Reported:			
Carlsbad NM, 88220	Projec	et Manager:	Josep	ph Hernande	01/30/20 13:41				
		AH 1 @ 2'							
		P0010	76-07 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	70	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		95.2 %	70	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.4 %	70	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.8 %	50	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %	70	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		95.2 %	70	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.4 %	70	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	222	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:		RDU 12 (2RP-4095)						
5315 Buena Vista Dr	Project Number:		0410	8-0639		Reported:			
Carlsbad NM, 88220	Projec	Josep	h Hernande	01/30/20 13:41					
		A							
			76-08 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Toluene-d8		96.8 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.2 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OR	O								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		89.4 %	50-	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Toluene-d8		96.8 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.2 %	70-	-130	2005016	01/28/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	302	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project	Project Name:		12 (2RP-40							
5315 Buena Vista Dr	Project	Project Number:			04108-0639						
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande:		01/30/20 13:41					
			H 2 @ 2'								
			76-09 (So	lid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: 1,2-Dichloroethane-d4		107 %	70-	130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Toluene-d8		95.9 %	70-	130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Bromofluorobenzene		89.5 %	70-	130	2005016	01/28/20	01/29/20	EPA 8260B			
Nonhalogenated Organics by 8015 - DRO/	ORO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D			
Surrogate: n-Nonane		87.8 %	50-	200	2005012	01/27/20	01/28/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: 1,2-Dichloroethane-d4		107 %	70-	130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Toluene-d8		95.9 %	70-	130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Bromofluorobenzene		89.5 %	70-	130	2005016	01/28/20	01/29/20	EPA 8015D			
Anions by 300.0/9056A											
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A			

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WPX (Carlsbad)	Project Name:		RDU	12 (2RP-40					
5315 Buena Vista Dr	Project Number:		0410	8-0639	Reported:				
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande:		01/30/20 13:41			
		A	H 2 @ 4'						
		P0010	76-10 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		97.3 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		91.0 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO	)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		90.5 %	50-	-200	2005012	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		97.3 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		91.0 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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	Ana	lytical	Labora	tory

WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)					
5315 Buena Vista Dr	Project	Number:	04108-0639					Reported:		
Carlsbad NM, 88220	Project	Manager:	Josep	oh Hernande	Z			01/30/20 13:4	41	
	AH 3 @ 2'									
		P0010	76-11 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organic Compounds by 8260										
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B		
Surrogate: 1,2-Dichloroethane-d4		107 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B		
Surrogate: Toluene-d8		96.2 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B		
Surrogate: Bromofluorobenzene		90.3 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B		
Nonhalogenated Organics by 8015 - DRO/ORC	)									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D		
Surrogate: n-Nonane		84.6 %	50	-200	2005012	01/27/20	01/28/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D		
Surrogate: 1,2-Dichloroethane-d4		107 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D		
Surrogate: Toluene-d8		96.2 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D		
Surrogate: Bromofluorobenzene		90.3 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Project	Name:	RDU 12 (2RP-4095)		95)						
5315 Buena Vista Dr	Project	Number:	04108-0639					Reported:			
Carlsbad NM, 88220	Project	Manager:	Josep	oh Hernande:	Z			01/30/20 13:	41		
	AH 3 @ 4'										
		P0010	76-12 (So	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: 1,2-Dichloroethane-d4		109 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Toluene-d8		97.7 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Bromofluorobenzene		89.6 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Nonhalogenated Organics by 8015 - DRO/ORO	)										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D			
Surrogate: n-Nonane		91.3 %	50-	-200	2005012	01/27/20	01/29/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: 1,2-Dichloroethane-d4		109 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Toluene-d8		97.7 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Bromofluorobenzene		89.6 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Anions by 300.0/9056A											
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A			

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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)						
5315 Buena Vista Dr	Project	Number:	04108-0639					Reported:			
Carlsbad NM, 88220	Project	Manager:	Josep	oh Hernande	Z			01/30/20 13:	41		
	AH 4 @ 2'										
		P0010	76-13 (So	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organic Compounds by 8260											
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: 1,2-Dichloroethane-d4		111 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Toluene-d8		95.8 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Surrogate: Bromofluorobenzene		90.1 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8260B			
Nonhalogenated Organics by 8015 - DRO/ORG	)										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D			
Surrogate: n-Nonane		92.8 %	50	-200	2005012	01/27/20	01/29/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: 1,2-Dichloroethane-d4		111 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Toluene-d8		95.8 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Surrogate: Bromofluorobenzene		90.1 %	70-	-130	2005016	01/28/20	01/29/20	EPA 8015D			
Anions by 300.0/9056A											
Chloride	ND	20.0	mg/kg	1	2005019	01/28/20	01/29/20	EPA 300.0/9056A			

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WPX (Carlsbad)	Project Name:		RDU	12 (2RP-40					
5315 Buena Vista Dr	Projec	0410	8-0639				Reported:		
Carlsbad NM, 88220	Projec	et Manager:	Josep	oh Hernande	z			01/30/20 13:	41
		A	H 4 @ 4	,					
			76-14 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %	70	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Toluene-d8		96.2 %	70	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.9 %	70	-130	2005016	01/28/20	01/29/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		86.9 %	50	-200	2005012	01/27/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %	70	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Toluene-d8		96.2 %	70	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.9 %	70	-130	2005016	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

# Volatile Organic Compounds by 8260 - Quality Control

#### **Envirotech Analytical Laboratory** Spike %REC RPD Reporting Source Result Limit Units Level Result %REC Limits RPD Limit Notes Analyte Batch 2005016 - Purge and Trap EPA 5030A Blank (2005016-BLK1) Prepared & Analyzed: 01/28/20 1 Benzene ND 0.0250 mg/kg Toluene ND 0.0250 Ethvlbenzene ND 0.0250 ... ., p,m-Xylene ND 0.0500 ND 0.0250 .. o-Xylene .. Total Xylenes ND 0.0250 Surrogate: 1,2-Dichloroethane-d4 0.546 " 0.500 109 70-130 Surrogate: Toluene-d8 0.485 ,, 0.500 97.0 70-130 Surrogate: Bromofluorobenzene 0.442 ,, 0.500 88.3 70-130 LCS (2005016-BS1) Prepared & Analyzed: 01/28/20 1 2.54 0.0250 2.50 70-130 Benzene 102 mg/kg Toluene 2.43 0.0250 2 50 97.4 70-130 .. Ethylbenzene 2.40 0.0250 2.50 96.1 70-130 .. p,m-Xylene 5.00 0.0500 5.00 100 70-130 2.38 0.0250 .. 2.50 95.1 70-130 o-Xylene .. 7.38 0.0250 Total Xylenes 7.50 98.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.532 " 0.500 106 70-130 " 70-130 Surrogate: Toluene-d8 0.507 0.500 101 Surrogate: Bromofluorobenzene 0.482 .. 0.500 96.4 70-130 Matrix Spike (2005016-MS1) Source: P001076-01 Prepared & Analyzed: 01/28/20 1 Benzene 2.30 0.0250 mg/kg 2.50 ND 92.2 48-131 Toluene 217 0.0250 2 50 ND 86.9 48-130 Ethylbenzene 0.0250 .. 2.50 ND 86.1 45-135 2.15 .. 89.5 43-135 p,m-Xylene 4.48 0.0500 5.00 ND o-Xylene 2.13 0.0250 2.50 ND 85.1 43-135 6.60 0.0250 .. 7.50 ND 88.0 43-135 Total Xylenes ,, Surrogate: 1,2-Dichloroethane-d4 0.537 0.500 107 70-130 " 0.497 0.500 99.3 70-130 Surrogate: Toluene-d8 0.475 70-130 Surrogate: Bromofluorobenzene 0.500 95.0 Matrix Spike Dup (2005016-MSD1) Source: P001076-01 Prepared & Analyzed: 01/28/20 1 2.46 48-131 23 Benzene 0.0250 mg/kg 2.50 ND 98.6 6.69 2 33 0.0250 2 50 ND 931 6 98 24 Toluene 48-130 Ethylbenzene 2.31 0.0250 .. 2.50 ND 92.2 45-135 6.84 27 .. 0.0500 27 4.78 5.00 ND 95.5 43-135 6.47 p,m-Xylene " o-Xylene 2.28 0.0250 2.50 ND 91.0 43-135 6.75 27 .. Total Xylenes 7.05 0.0250 7.50 ND 94.0 43-135 6.56 27 Surrogate: 1,2-Dichloroethane-d4 0.533 0.500 107 70-130 ,, Surrogate: Toluene-d8 0.498 0.500 99.5 70-130 Surrogate: Bromofluorobenzene 0.486 0.500 97.2 70-130

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Notes



WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

# Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### **Envirotech Analytical Laboratory** Reporting Spike Source %REC RPD Analyte Result Limit Units Level Result %REC Limits RPD Limit Batch 2005012 - DRO Extraction EPA 3570 Blank (2005012-BLK1) Prepared: 01/27/20 1 Analyzed: 01/29/20 0 Diesel Range Organics (C10-C28) ND 25.0 mg/kg Oil Range Organics (C28-C40) ND 50.0 54.6 .. 109 50-200 Surrogate: n-Nonane 50.0 LCS (2005012-BS1) Prepared: 01/27/20 1 Analyzed: 01/29/20 0 Diesel Range Organics (C10-C28) 443 25.0 500 88.7 38-132 mg/kg Surrogate: n-Nonane 47.2 " 50.0 94.4 50-200 Source: P001075-03 Matrix Spike (2005012-MS1) Prepared: 01/27/20 1 Analyzed: 01/28/20 1 Diesel Range Organics (C10-C28) 481 25.0 500 ND 96.1 38-132 mg/kg 48.9 97.7 Surrogate: n-Nonane 50.0 50-200 Prepared: 01/27/20 1 Analyzed: 01/28/20 1 Matrix Spike Dup (2005012-MSD1) Source: P001075-03 Diesel Range Organics (C10-C28) 464 25.0 500 ND 92.8 38-132 3.50 20 mg/kg Surrogate: n-Nonane 47.8 " 50.0 95.5 50-200

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

# Nonhalogenated Organics by 8015 - GRO - Quality Control

#### **Envirotech Analytical Laboratory** Reporting Spike %REC RPD Source Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 2005016 - Purge and Trap EPA 5030A Blank (2005016-BLK1) Prepared & Analyzed: 01/28/20 1 Gasoline Range Organics (C6-C10) ND 20.0 mg/kg Surrogate: 1,2-Dichloroethane-d4 0.546 " 0.500 109 70-130 Surrogate: Toluene-d8 0.485 " 0.500 97.0 70-130 " Surrogate: Bromofluorobenzene 0.442 0.500 88.3 70-130 LCS (2005016-BS2) Prepared & Analyzed: 01/28/20 1 Gasoline Range Organics (C6-C10) 46.1 20.0 50.0 92.2 70-130 mg/kg Surrogate: 1,2-Dichloroethane-d4 0.537 " 0.500 107 70-130 " 0.506 0.500 101 70-130 Surrogate: Toluene-d8 " 0.465 0.500 92.9 70-130 Surrogate: Bromofluorobenzene Matrix Spike (2005016-MS2) Source: P001076-01 Prepared & Analyzed: 01/28/20 1 Gasoline Range Organics (C6-C10) 43.4 70-130 20.0 mg/kg 50.0 ND 86.9 0.528 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 106 " Surrogate: Toluene-d8 0.497 0.500 99.3 70-130 " Surrogate: Bromofluorobenzene 0.466 0.500 93.2 70-130 Matrix Spike Dup (2005016-MSD2) Source: P001076-01 Prepared & Analyzed: 01/28/20 1 Gasoline Range Organics (C6-C10) 44.6 20.0 mg/kg 50.0 ND 89.2 70-130 2.61 20 Surrogate: 1,2-Dichloroethane-d4 0.501 0.500 100 70-130 " 101 0 503 0 500 70-130 Surrogate: Toluene-d8 ,, Surrogate: Bromofluorobenzene 0.472 0.500 94.4 70-130

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WPX (Carlsbad)	Proje	ct Name:	R	RDU 12 (2RP-	4095)							
5315 Buena Vista Dr	Proje	ct Number: 04108-0639							Reported:			
Carlsbad NM, 88220	Proje	ct Manager:	J	oseph Hernan	dez			01/30/20 13:41				
	Anio	ns by 300.0	D/9056A	A - Quality	Control							
	Env	virotech A	Analyti	ical Labor	atory							
		Reporting	Reporting Spike Source %REC						RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 2005019 - Anion Extraction EPA 3	00.0/9056A											
Blank (2005019-BLK1)				Prepared &	Analyzed:	01/28/20 1						
Chloride	ND	20.0	mg/kg									
LCS (2005019-BS1)				Prepared &	Analyzed:	01/28/20 1						
Chloride	254	20.0	mg/kg	250		102	90-110					
Matrix Spike (2005019-MS1)	Sourc	Source: P001076-01		Prepared & Analyzed: 01/28/20 1								
Chloride	1600	100	mg/kg	250	1360	96.3	80-120					
Matrix Spike Dup (2005019-MSD1)	Sourc	e: P001076-	<b>-01</b> Prepared & Analyzed: 01/28/20 1									

Chloride 1620 100 mg/kg 250 1360 104 80-120 1.26 20

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information	Chain of Cu	stody								Pa	ge	_of_
Client: WPX	Report Attention			Lab Use Only					TAT		A Progr	
roject: RDU 12 (289-4045)				10 NUM 10 NUMber 10 NUMber 10 NUMber 10 NUMber					1D 3D	RCRA	CWA	SDWA
Project Manager: Joseph Hernandez	Attention:		PO	010	140			8-01039				365
Address: P. o Box 62228	Address:					Ar	nalysis	and Metho	od	<del> </del>	1	ate UT A
City, State, Zip Phone:	City, State, Zip		3015	8015				U-			NM CO	UT A
Email: Lynda ( wpx	Phone:		by §	by 8	021	60	10	DOC MIN			X	
	Email: Juseph@ etecher	Lab	ORO	DRO	by 8	oy 82	s 60				/Υ	24
Sampled Sampled Matrix Containers Sample ID		Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	BGDO C			Ren	narks
1:45pm 1.22.20 5 1 TT1	@ Z'	1						X				
2:20pm 1.22:20 ( 1 TT 1	@ 12'	2					1	1	10			
D:45 am 1.23.20 1 TT2	@ z'	3										
0:50 um 1.23.20 2 1 TTZ	Q 4'	4										
1:15an   1 TT3 (	a 2'	5										
1:20 an V / / TT3 (	Q 4'	6										
Lioupm / AHI	@ 2'	7										
2:05pm 1 AHI	ê 4'	8										27
2:10 pm Hereiter 1 AHZ	@ Z'	9										
AHZ	@ 4'	10						X				
Additional Instructions:	-											
(field sampler), attest to the validity and authenticity of this sample. I am awa ime of collection is considered fraud and may be grounds for legal action. Sam		sample locatior	n, date c	or				quiring thermal pre cked in ice at an av			percentation and an and a second second	
Relinquished by: (Signature) $1.23.26$ Time $4:10$	Received by (Signature)	Date 1-23-2		Time	1610	2 1	Receiv	ved on ice:		se Only		
The Date Time 1-24-2020 1915	Received by: (Signature) Date				:30	1	T1 AVG T		<u>T2</u> 4		<u>T3</u>	
				-		100		astic, ag - a	mber glas	s, v - VOA		and the second second
lote: Samples are discarded 30 days after results are reported unless amples is applicable only to those samples received by the laborator		ples will be re	turnec	d to cli	ent or	dispose	ed of at				analysis of t	he above
	5796 US Highway 64, Farmington, NM 8					Ph (505)	632-0615	Fx (505) 632-186	5			nvirotech-inc.co
Analytical Laboratory	Three Springs • 65 Mercado Street, Suite	115, Durango, CO 8	31301			Ph (970)	259-0615	Fr (800) 362-1879	)		laboratory@e	nvirotech-inc.co

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oject: oject Manager: ddress:	Report Attention Report due by: Standard	TAT		-07.0055	and the second second		e Only		TAT			
ddress:			Lab	WO#	<b>‡</b>		lob Nu	mber	1D 3D	RCRA	CWA	SDWA
	Attention:											
he Chate Zie	Address:			Analysis and Method					od		Sta	ate
ty, State, Zip	City, State, Zip		15	8015				1			NM CO	UTA
none:	Phone:		V 80	y 80	11	0		JE			V	
nail: Lynda WPX	Email: 10seph a eteche	nv.com	<sup>g</sup> O <sup>b</sup>	3O b	/ 802	826	6010			10	$\wedge$	-
Time Date Matrix No Containers Sample ID	5 7 2	Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010 Chloride 200 0	BGDO			Ren	narks
1:20pm 1:2320 5 1 AH 3	@ 2'	11						X			17 X	
:25m 1 5 1 AH 3	Q 4'	12						1		1		
:: 50m 5 ( AH 4	@ 2'	13										
:35pm V 5 1 Att 4	@ 4'	14						V	-			
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	3											
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												25
dditional Instructions:												
field sampler), attest to the validity and authenticity of this sample. I am aw ne of collection is considered fraud and may be grounds for legal action. San		sample locatior	n, date o	or					reservation must avg temp above 0			1.1
Date Time 1. 23.20 4:10	Ppm Received by: (Signature)	Date 1-23-2		Time	610	>	Receiv	ed on ice		se Only N		
Inquished by: (Signature) Date Time	5 Received by: (Signature)	Date		Time	.30		Г1	emp °C			<u>T3</u>	
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other									amber glas			
ote: Samples are discarded 30 days after results are reported unles mples is applicable only to those samples received by the laborato								the client ex	pense. The re	eport for the	analysis of t	he above
envirotech	5796 US Highway 64, Farmington, NM 8	7401				Ph (505	) 632-0615	Fx (505) 632-18	65			envirotech-inc.

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Received by OCD: 8/22/2023 6:52:20 AM



# **Analytical Report**

# **Report Summary**

Client: WPX (Carlsbad)

Samples Received: 2/27/2020 Job Number: 04108-0639 Work Order: P002090 Project Name/Location: RDU 12 (2RP-4095)

Walter Hinkow

Date: 2/28/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH5 @ 2'	P002090-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH5 @ 4'	P002090-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 2'	P002090-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 4'	P002090-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 2'	P002090-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 4'	P002090-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)					
5315 Buena Vista Dr	Project	Project Number: 04108-0639						Reported:		
Carlsbad NM, 88220	Project	Manager:	Lynd	a Laumbach			02/28/20 13:35			
		Α	H5 @ 2'							
			90-01 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO	/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Surrogate: n-Nonane		90.6 %	50-	-200	2009029	02/27/20	02/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Proj	ect Name:	RDU	J 12 (2RP-40					
5315 Buena Vista Dr	Proj	ect Number:	0410	8-0639	<b>Reported:</b>	Reported:			
Carlsbad NM, 88220	Proj	ect Manager:	Lynd	la Laumbach	02/28/20 13:	02/28/20 13:35			
		A	H5 @ 4'						
			90-02 (Se	olid)					
	Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		91.7 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	178	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Projec	t Name:	RDU	12 (2RP-40					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Projec	t Manager:	Lynd	a Laumbach		02/28/20 13:35			
		A	H6 @ 2'						
			90-03 (So	olid)					
	Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		94.7 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	50-	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	173	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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P	envirotech
	Analytical Laboratory

WPX (Carlsbad)	Projec	t Name:	RDU	J 12 (2RP-40	95)					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				Reported:		
Carlsbad NM, 88220	Projec	t Manager:	Lynd	la Laumbach	L		02/28/20 13:35			
		A	H6 @ 4'							
			90-04 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/OR	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D		
Surrogate: n-Nonane		95.4 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	155	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A		

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WPX (Carlsbad)	Projec	t Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	a Laumbach			02/28/20 13:35		
		A	H7 @ 2'						
		P0020	90-05 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		87.3 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	212	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Proje	ect Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Proje	ect Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Proje	ect Manager:	Lynd	la Laumbach			02/28/20 13:35		
		A	H7 @ 4'						
			90-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		93.5 %	50	-200	2009029	02/27/20	02/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.0 %	50	-150	2009030	02/27/20	02/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	142	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

# Volatile Organics by EPA 8021 - Quality Control

# **Envirotech Analytical Laboratory**

			·		·					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: (	02/27/20 0 A	Analyzed: (	02/27/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.34		"	8.00		104	50-150			
LCS (2009030-BS1)				Prepared: (	02/27/20 0 4	Analyzed: (	2/27/20 1			
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250		5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250		5.00		98.6	70-130			
o,m-Xylene	9.84	0.0500		10.0		98.4	70-130			
o-Xylene	4.93	0.0250		5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
Matrix Spike (2009030-MS1)	Sou	ırce: P002090-	01	Prepared: (	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250		5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500		10.0	ND	99.0	63.3-131			
p-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (2009030-MSD1)	Sou	ırce: P002090-	01	Prepared: (	02/27/20 0 4	Analyzed: 0	02/27/20 1			
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
o,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
p-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

# Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

# Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared: (	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0								
Surrogate: n-Nonane	46.1		"	50.0		92.2	50-200			
LCS (2009029-BS1)				Prepared: (	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			
Matrix Spike (2009029-MS1)	Sou	rce: P002090-	01	Prepared: (	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	48.3		"	50.0		96.5	50-200			
Matrix Spike Dup (2009029-MSD1)	Sou	rce: P002090-	01	Prepared: (	02/27/20 0 4	Analyzed: 0	2/27/20 1			
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

# Nonhalogenated Organics by 8015 - GRO - Quality Control

	En	virotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			
LCS (2009030-BS2)				Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			
Matrix Spike (2009030-MS2)	Sour	ce: P002090-	01	Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.2	50-150			
Matrix Spike Dup (2009030-MSD2)	Sour	ce: P002090-	01	Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

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WPX (Carlsbad)	Proje	ct Name:	R	DU 12 (2RP-	4095)						
5315 Buena Vista Dr	Proje	ct Number:	04	04108-0639					Report	ed:	
Carlsbad NM, 88220	Proje	ct Manager:	L	ynda Laumba	ch				02/28/20 13:35		
Anions by 300.0/9056A - Quality Control											
	Env	virotech A	Analyti	cal Labor	atory						
		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 2009031 - Anion Extraction EPA	A 300.0/9056A										
Blank (2009031-BLK1)				Prepared: (	02/27/20 0 /	Analyzed: 0	2/27/20 1				
Chloride	ND	20.0	mg/kg								
LCS (2009031-BS1)				Prepared: (	02/27/20 0 /	Analyzed: 0	2/27/20 1				
Chloride	263	20.0	mg/kg	250		105	90-110				
Matrix Spike (2009031-MS1)	Sourc	e: P002090-	01	Prepared: 02/27/20 0 Analyzed: 02/27/20 1							
Chloride	331	100	mg/kg	250	ND	132	80-120			M1	

Prepared: 02/27/20 0 Analyzed: 02/27/20 1

130

80-120

2.05

20

M1

ND

250

Source: P002090-01

100

mg/kg

324

QC Summary Report

Matrix Spike Dup (2009031-MSD1)

Chloride

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

#### **Notes and Definitions**

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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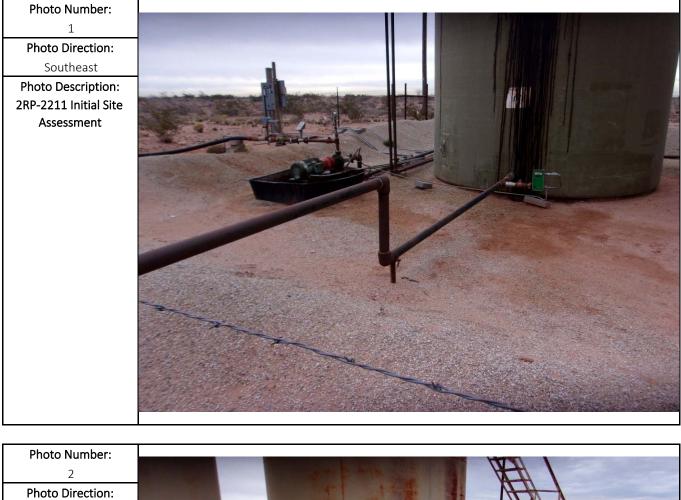
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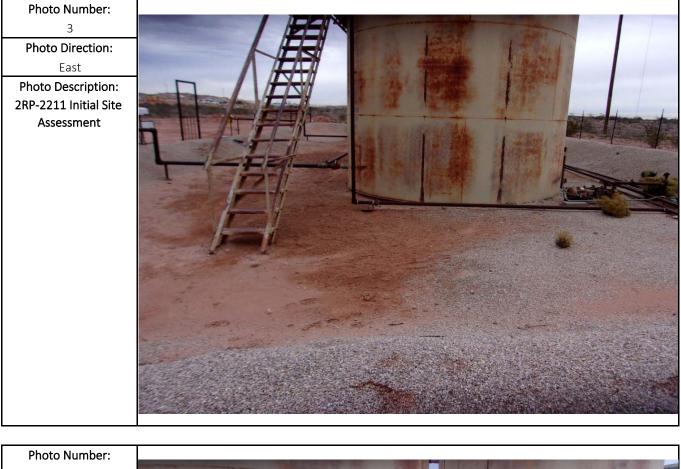
lient: 1, JPX	Report Attention				1.0	hlle	o Onl				TAT		50	A Program
Client: UPX Project: KDV 12 (2RP-4095)	Report due by:		Lab Use Only					TAT			A Program			
Project Manager:			Lab WO# P002090				Job Number 04108-0439 Analysis and Method			-	1D 3D	D RC	RA	CWA SD C
Address:										1	ХL			
City, State, Zip	City, State, Zip					_	<u> </u>		d Me	thod				State
Phone:	Phone:		3015	3015		1		Š					Ľ	NM CO UT
mail: Lynda @ WPX			by 8	by 8	021	60	0.00	51		-	×			X
Time Data	Email: joseph@etechenv	.201	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BUDOC-NM	TCEQ 1005	BGDOC - NM	BGDOC - TX		1	
Sampled Sampled Matrix Containers Sample ID	5	Lab	30/0	30/L	EX	)C b	lorio	5	EQ	DOC	ŏ			Remarks
	-	Number	Ö	ß	81	>	ť	$\infty$	2	BG	Bg			Hernarko
2:00pm 2:25:20 5 1 AH5	@ Z'						,	K						
2:15pm 5 1 Att 5 (	a 4'	2						X						
2:00 pm     2:25:20     5     1     AH 5       2:15 pm     5     1     AH 5       2:30 pn     5     1     AH 6       2:30 pn     5     1     AH 6       2:30 pn     5     1     AH 6       2:45 pm     5     1     AH 6       3:00 pm     5     1     AH 7       3:15 pm     5     1     AH 7	@ Z'	3						$\langle  $						
2:45pm 5 1 AH6	@ 41	4	8					X						
3:00 pm 5 1 AH 7	@ 2'	5						X						
3:15 pm V S / AH 7 1	0 101						1.2	$\frac{1}{\sqrt{2}}$				+-+		
	a 7	(q				_		^	_		_			
		and the second										_		
		ALC: N												
additional Instructions: $\# 24$	hr TAT													
(field sampler), attest to the validity and authenticity of this sample. I am aware		ocation, date or												y they are sampled or
me of collection is considered fraud and may be grounds for legal action. Sample				_		ľ	- conteu pa	inco in	ice at df	, avg ten	ip above 0 b	ac less than 6	C on sub	osequent days.
elinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time		-						Jse Only	y	And the Deposite
	and the second	2-25.		F	11:	2	Receiv	red o	on ice	e:	(Y)/ 1	۷		
elinguished by! (Signature) Date Time	Received by: (Signature)	Date 2/27	60	Time	0.0	1	T1			_ , ]	2		_ <u>T</u>	3
2.26.2920	1325 Kaina Loper a	2/2/2/06/	10	9	30		AVG T	emp	°C_	4				IN AN A STATE
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Type:	<b>g -</b> gl	ass, p	o - po	ly/plas	tic, a	ng - ar	mber	glass, v	- VOA		
ote: Samples are discarded 30 days after results are reported unless ot nly to those samples received by the laboratory with this COC. The lial	her arrangements are made. Hazardous samples will b bility of the laboratory is limited to the amount paid for	pe returned to cli r on the report	ent or o	dispose	ed of at	the cli	ient exp	ense.	The re	eport fo	or the ana	lysis of the	e above	samples is applical
	, and an and an and an and an a		1883 - C.P.											

# Appendix D Photographic Log

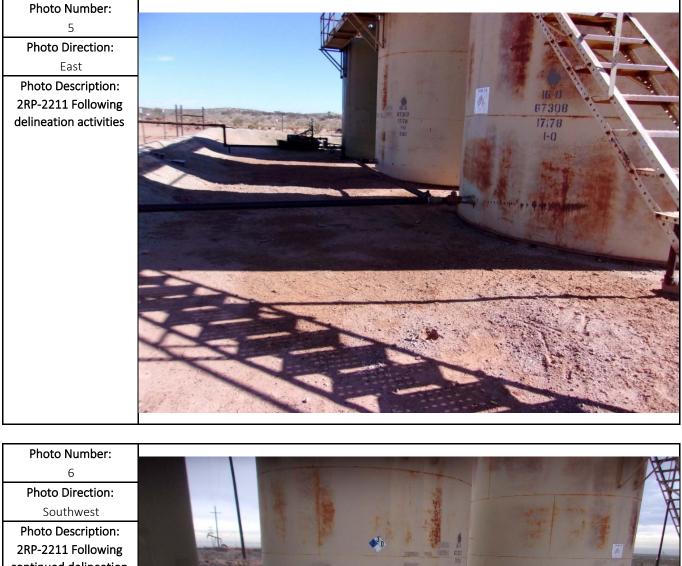


Southwest Photo Description: 2RP-2211 Initial Site Assessment

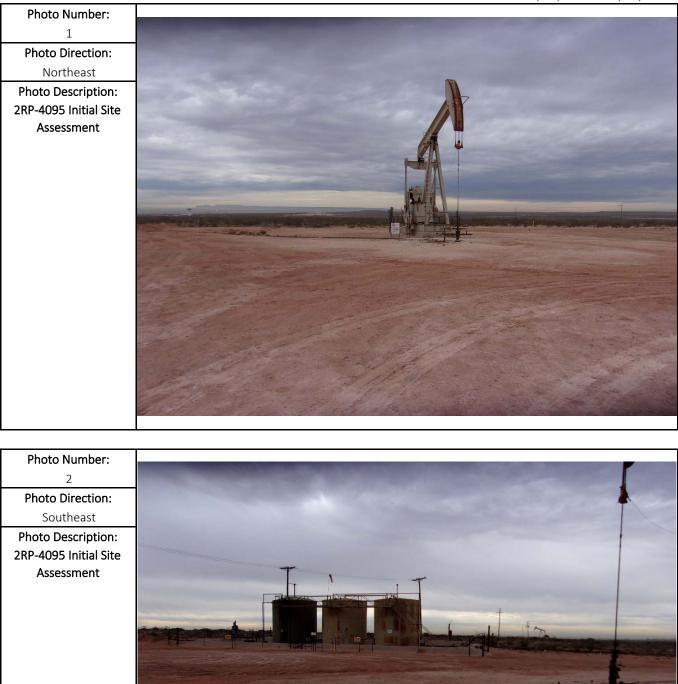




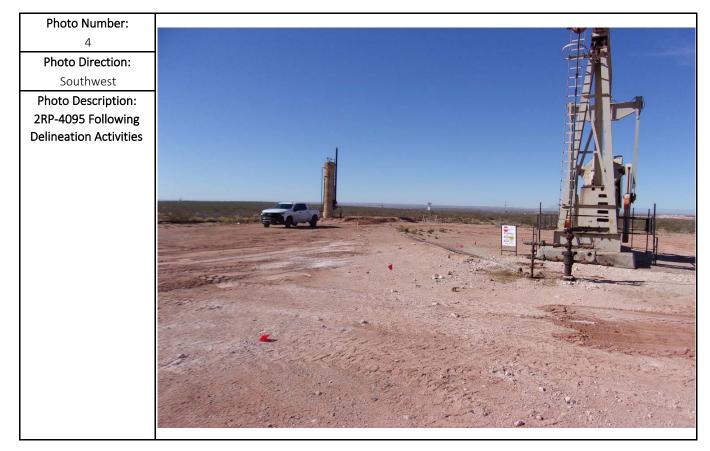




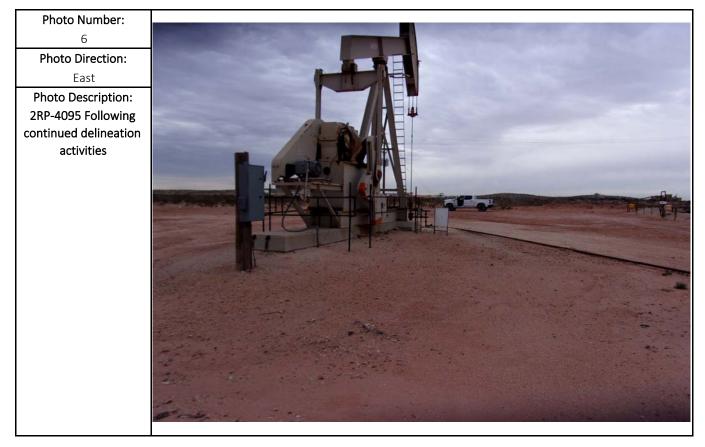












Received by OCD: 8/22/2023 6:52:20 AM

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District III

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

District IV

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

COMMENTS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	255186
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### COMMENTS

Created	Comment	Comment
By		Date
csmith	Returned to OCD Review, Wrong Attachments uploaded during review.	9/5/2023

Page 142 of 143 COMMENTS

Action 255186

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District III

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District IV

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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	255186
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Comprisione		
Created By	Condition	Condition Date
amaxwell	Closure approved.	9/1/2023
amaxwell	Release area is subject to 19.15.29.13 NMAC, RESTORATION, RECLAMATION AND RE-VEGETATION, upon removal of equipment or plug and abandonment activities, whichever comes first.	9/1/2023

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