District 1 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 Rel NHMP140 73 2555 18	Energy Min Oil C 1220 Sa ease Notific	conser South nta Fe	vation Div St. Franc , NM 875	I Resources Vision Is Dr. 05 Prrective A	OCD ART	Form C-141 Revised August 8, 2011 to appropriate District Office in Conduct with 19.15.29 NMAC.
Name of Company RKI EXPLORATION	246284 & PRODUCTIO		Contact	HEATHER B		al Report 🔄 Final Report
Address 210 PARK AVE, STE 900, O				No. 405-996-57		
Facility Name ROSS DRAW 12			Facility Typ	e POW		
Surface Owner	Mineral O	wner			API No	. 30-015-24793
	LOCA	TIO	OF REI	LEASE		
Unit Letter Section Township Range	Feet from the		South Line	Feet from the	East/West Line	County
A 33 26S 30E	467'	NC	RTH	660'	EAST	EDDY
La	titude		_ Longitud	e		
	NAT	URE	OF RELI	EASE		
Type of Release OIL/WATER			Volume of	Release 15 BE		Recovered 0 BBLS
Source of Release TRANSFER PUMP Was Immediate Notice Given?			Date and H If YES, To	our of Occurrence	Date and 14 UKN TIME	Hour of Discovery BLM DISCOVERED
	🛾 No 🔲 Not Re	quired		2-20		3/5/14 @ 9:00 AM
By Whom? M. BALLIET, BL	M		Date and H			
Was a Watercourse Reached?	] No		IFYES, Vo N/A	lume Impacting the	e Watercourse.	
If a Watercourse was Impacted, Describe Fully. Describe Cause of Problem and Remedial Actio WATER TANK RAN OVER, TRANSF	n Taken.*	RLOA	.D	. <u></u>		
Describe Area Affected and Cleanup Action Tal SPILL WAS CONTAINED IN DIRT CO I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accept	DNTAINMENT; is true and comple nd/or file certain re ce of a C-141 report investigate and re	ete to th lease no t by the mediate	e best of my tifications an NMOCD ma contaminatic	d perform correct arked as "Final Re on that pose a thread	ive actions for rele port" does not reli at to ground water	eases which may endanger eve the operator of liability , surface water, human health
federal, state, or local laws and/or regulations.						
<i>st</i> , <i>D</i> .				OIL CONS	ERVATION	DIVISION
Signature: Allather Sylums Printed Name: Heather Brehm		A	Approved by I	Environmental Sp	ecialist:	P
Title: Regulatory Analyst		A	pproval Date	: 3-14-14	Expiration I	Date: NA
E-mail Address: hbrehm@rkixp.com		C	onditions of	Approval:		Attached
Date: 3/06/2014 Phone: Attach Additional Sheets If Necessary	405-996-5769	к	emediation e approval b <u>PROP</u>	per OCD Rule & by BLM. <u>SUBMIT</u> DSAL NO LATER CH - CH - CH	REMEDIATION	Attached 2RP 2211

·· ·

District I 1625 N. French Dr., Hobbs, NM 88240 District III 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

)

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Incident ID	nHMP1407325518
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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): nHMP1407325518
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

### **Location of Release Source**

Latitude	32.004760	Longitude	-103.879814
		(NAD 83 in decimal degrees to 5 decimation of the second s	imal places)
Site Name: R	loss Draw Unit #012	Site Type:	: Oil Production Facility
Date Release	Discovered: 03/05/2014	API# (if app	pplicable): 30-015-24793

Unit Letter	Section	Township	Range	County
А	33	268	30E	Eddy

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

### Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)		
Crude Oil/ Produced Water	Volume Released (bbls): 15	Volume Recovered (bbls): 0		
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: A transfer pump overload resulted in a tank overflow to secondary containment.				
$bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^3)}{4.21 \ (\frac{ft^3}{bbl \ equivalent})} * estimated \ porosity \ (\%) + recovered \ fluids \ (bbl)$				

Incident ID	nHMP1407325518
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	Volume exceeded 25bbls.
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notification was submitte	ed via email on 3/6/2014 to Mike Bratcher.

### **Initial Response**

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

 $\square$  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:
email: <u>Jim.Raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

Received by OCD: 9/5/2023 9:23:35 AM Form C-141 State of New Mexico

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Oil Conservation Division

Incident ID	nHMP1407325518
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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.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100 (ft bgs)</u>
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
- $\boxtimes$  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
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 9/5/20.	23 9:23:35 AM State of New Mexico		Γ	Page 5 of 216
			Incident ID	nHMP1407325518
Page 4	Oil Conservation Division		District RP	2RP-2211
			Facility ID	
			Application ID	
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>Jim Ra</u> Signature: <u>/ a Pdd</u> email: <u>Jim.Raley@dvn</u>		tifications and perform co OCD does not relieve the eat to groundwater, surfac	rrective actions for rele operator of liability sho ce water, human health iance with any other feo tal Professional	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

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**Oil Conservation Division** 

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nHMP140732	5518			

Incident ID	nHMP1407325518
District RP	2RP-2211
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. 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: fin Roby Date: 9/5/2023 \_\_\_\_\_ Telephone: 575-689-7597 email: Jim.Raley@dvn.com **OCD Only** Received by: Date: 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: Date: Title: Printed Name:



# **CLOSURE REQUEST REPORT**

Ross Draw Unit #012 Eddy County, New Mexico Incident Numbers nHMP1407325518 nAPP2315142829

Prepared For: WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

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

#### **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing corrective actions and subsequent soil sampling events performed for two inadvertent releases of crude oil and produced water at the Ross Draw #012, also referred to as Ross Draw Unit #012 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

#### SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit A, Section 33, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0047607°, -103.8798141°) 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**).

#### nHMP1407325518

On March 5, 2014, it was discovered that a tank overflow resulted in the release of approximately 15 barrels (bbls) of crude oil and produced water within the secondary containment earthen berm; no fluids were recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on March 6, 2014, and was subsequently assigned Incident Number nHMP1407325518. **Figure 2** in **Appendix A** depicts the observed subject release footprint, hereafter referred to as the Area of Concern #1 (AOC #1). It should be noted that the original Form C-141 for Incident Number nHMP1407325518 did not include Global Positioning System (GPS) coordinates for the release but are provided on the updated Final Form C-141.

Between January 15 and February 25, 2020, Etech conducted initial site assessment and delineation activities at the Site to investigate residual soil impacts associated with the AOC #1 and an additional release on the same production pad (Incident Number nAB1702749185). Upon receipt of analytical results, a Closure Request (CR) was prepared and submitted on March 27, 2020, for both incidents. The NMOCD reviewed the CR and denied the request for Incident Number nHMP1407325518 on March 29, 2023, for the following reason:

"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."

Multiple soil borings have been advanced to assist with the depth to groundwater determination of the region since the denial of Incident Number nHMP1407325518 and is described below. Summaries of previous sampling events and laboratory analytical results may be referenced in the CR. However, a more recent spill (Incident Number nAPP2315142829) overlapping AOC #1 has invalidated the laboratory analytical data in the CR, as the data does not provide a current representation of residual soil impacts in same earthen containment impacted by Incident Number nHMP1407235518. WPX requested an extension of the deadline for the two overlapping releases to provide enough time for additional planning, remediation activities and subsequent corrective action report, which was approved by the NMOCD on June 15, 2023.

#### nAPP2315142829

On May 19, 2023, a tank overflow resulted in the release of approximately 30 bbls of produced water within the secondary containment earthen berm overlapping AOC #1. A vacuum truck was dispatched to

the Site and recovered approximately 20 bbls of free-standing fluids. WPX reported the release to the NMOCD on a Form C-141 on May 31, 2023, and was subsequently assigned Incident Number nAPP2315142829. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern #2 (AOC #2).

#### 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 ½ mile), 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 ½ mile 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**.

Based on the desktop review of the current Bureau of Land Management (BLM) Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a medium potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1** in **Appendix A**.

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

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
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

Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

<sup>†</sup>The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

#### **DELINEATION SOIL SAMPLING ACTIVITIES**

On June 19, 2023, Etech conducted delineation activities to characterize residual impacted soil within and around AOC #1 and AOC #2. Two potholes (PH01 and PH02) were advanced within the secondary containment earthen berm impacted by the AOCs, and four potholes (PH03 through PH06) were advanced in every cardinal direction to confirm horizontal delineation of the AOCs. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. A total of two samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of COCs.

#### **DELINEATION LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for all delineation soil samples were below the applicable Site Closure Criteria, except for soil samples collected at 0.5-foot bgs from PH01 and PH02 locations where laboratory analytical results indicated elevated chloride and TPH concentrations. Laboratory analytical results for soil samples collected from PH03 through PH06 locations provided sufficient horizontal delineation for both AOCs. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

#### **EXCAVATION SOIL SAMPLING ACTIVITIES**

From July 26, 2023, to July 27, 2023, Etech directed excavation activities via mechanical equipment by referencing PH01 and PH02 laboratory analytical results and by field screening soil for VOCs and chloride as described above. Following the removal of soil, Etech collected 5-point composite floor soil samples (FS01 through FS06) and sidewall samples (SW01 and SW02) at a sampling frequency of 200 square feet from the excavation. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed for COCs as previously described.

Upon completion of remediation activities, impacted soil was removed from the Site and transported to a licensed and approved New Mexico landfill under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. Photographic documentation of all Site activities is included in **Appendix D**.

### EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

### **CLOSURE REQUEST**

Based on the laboratory analytical results, WPX believes residual impacts associated with the two overlapping, inadvertent releases have been delineated, excavated, and removed from the Site. Concentrations of COCs for all excavation soil samples were below the applicable Site Closure Criteria. Furthermore, the horizontal periphery of impacts has been defined for AOC #1 and AOC #2 via delineation and/or confirmation sampling. WPX believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 guidelines in order to be protective of human health, the environment and ground water. As such, WPX respectfully requests NFA of Incident Numbers nHMP1407325518 and nAPP2315142829.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Gilbert Moreno at (832) 541-7719 or gilbert@etechenv.com. Appendix G provides correspondence and email notification receipts associated with the subject releases. Previous remediation activities and soil sample analytical results for the subject release can be referenced in the Original CR in Appendix H.

Sincerely, Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist

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

Figure 2: Delineation Soil Sample Locations Figure 3: Excavation Soil Sample Locations

- Appendix B: Referenced Well Records
- Appendix C: Soil Sampling Logs
- Appendix D: Photographic Log
- Appendix E: Tables

- Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G: NMOCD Notifications
- Appendix H: Original Closure Request

Closure Request Report Incident Numbers nHMP1407325518 & nAPP2315142829 Ross Draw Unit #012

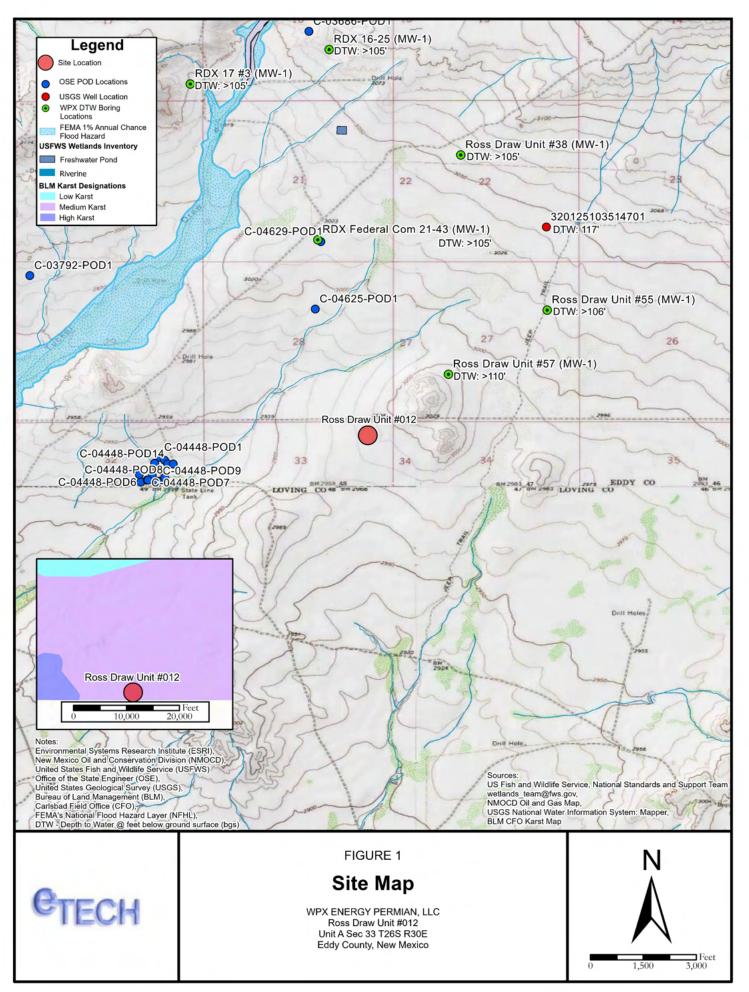
.

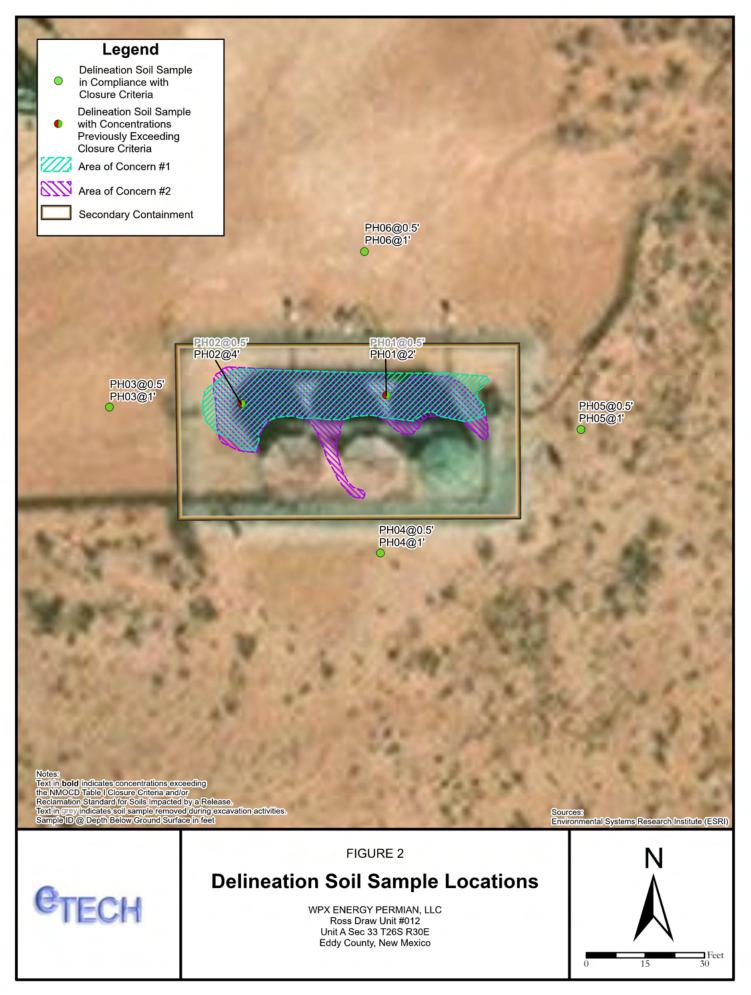
## APPENDIX A

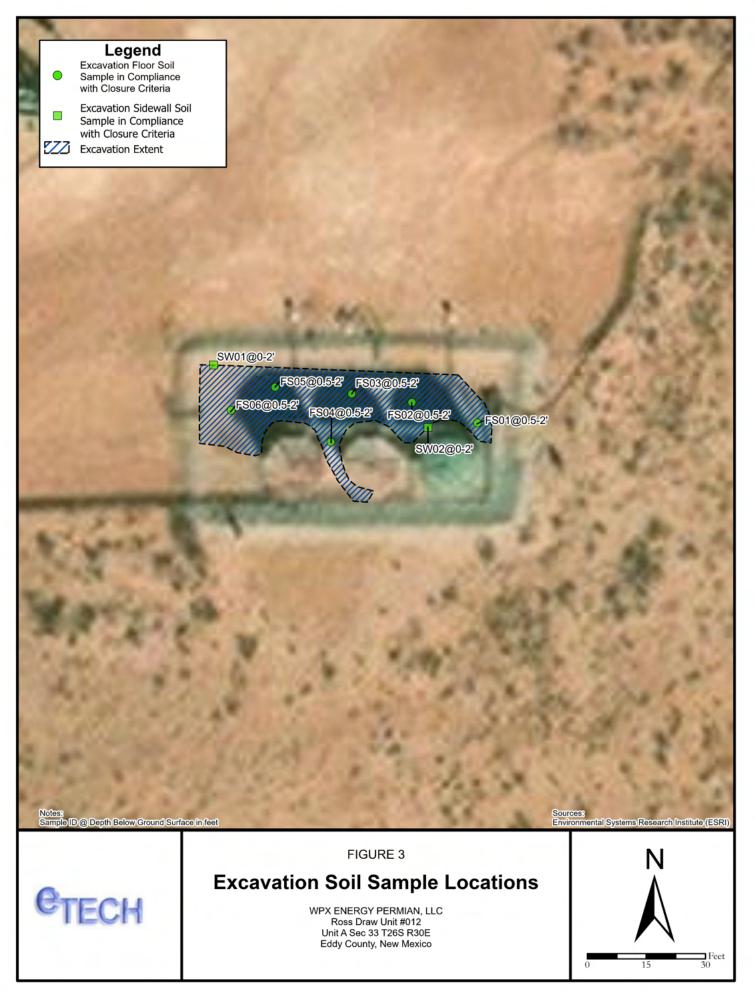
# Figures

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









### APPENDIX B

## **Referenced Well Record**

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



		HR	L						MONITORING W	ELL COMPLETION	N DIAGRAM
			MPL	IAN	CE		Boring/Wel		W-1	Location: Ross Draw U	Jnit #57
	714		LU1		NS		Date:	12/0	9/2020	Client: WPX En	erav
Drilling Me	ethod:		Sampling N	Aethod:			Logged By:		/2020	Drilled By:	cigy
	Air Rotar	y	G 10		one		0.15	J. Li	nn, PG	Talon L Latitude:	PE
Gravel Pac	0/20 Sar	nd	Gravel Pac	k Depth Into 3 E	ags		Seal Type: N	lone	Seal Depth Interval: None	Latitude: 32.010	32
Casing Typ	be:	Diameter:		Depth Inter			Boring Tota	al Depth (ft. BC		Longitude:	
PVC Screen Typ	be:	2-inch Slot:		0-105 fe Diameter:		Interval:	Well Total	L Depth (ft. BGS	10 5):	-103.872 Depth to Water (ft. BTOC):	246 DTW Date:
PVC	-	0.010-ii	nch	2-inch	-	110 ft			10	> 110	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15 20 25 30 35	NM	L/M	D	N	N	NM	SM	NS		pale brown poorly fine sand	
40 45	NM	М	D	N	N	NM	SW	NS		c orange well graded	
50 55	NM	М	D	Ν	Ν	NM	SM	NS	Pale orange red	tan silty fine sand	
60 65	NM	L	D	Ν	Ν	NM	SW	NS	Dark brown greyis	sh well graded sand	
70 75 80 85 90 95	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well	graded sand	
100 105	NM	L/M	D	N	N	NM	SM	NS		pale brown poorly nd - TD 110' bgs	

## APPENDIX C

# Soil Sampling Logs

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



					<b>.</b>			Sample Name: PH01	Date: 06/20/2023
		2						Site Name: Ross Draw Unit #0	
				_(				Incident Number: nHMP140723 Job Number: 18227	00010 & HAMM2310142829
			<u> </u>				•		Mathada Da Li
					SAMPLII		)	Logged By: EK	Method: Backhoe
	ordinate						o Toot O	Hole Diameter: N/A	Total Depth: 2' apor, respectively. Chloride test
								ction factors included.	apor, respectively. Chionde test
Moisture Content	Moisture Content Chloride (ppm) Vapor (ppm) Staining Staining Sample ID Sample ID Sample ID (feet bgs) (feet bgs) USCS/Rock							Lithologic Des	scriptions/Notes
Dry	2,122	276.5	Yes	PH01	0.5	0	SW-SM	(0-2') SAND, dry, brown, well grade	ed with silt, fine to coarse
Dry	1,944	43.0	No		1 _	_ 1		@1' no stain.	
Dry	372	5.5	No	PH01	2_	- 2		@2' color change to reddish browr	n, no odor, pad fill.
		<u> </u>	I			1	Total D	Depth	
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								Sample Name: DU02	Data: 06/20/2022
	-							Sample Name: PH02 Site Name: Ross Draw Unit #0	Date: 06/20/2023
		-			ĽН			Incident Number: nHMP1407235518 & nAPP2315142829	
				_	🥒 🛛 🖉			Job Number: 18227	00010 0 HAFF2010142029
			<u> </u>		SAMPLI		<u> </u>		Mathad: Real/has
	ordinate						,	Logged By: EK Hole Diameter: N/A	Method: Backhoe
						H Chloride	- Test S		Total Depth: 2' apor, respectively. Chloride test
perform	ied with	1:4 dilut	ion fa	ctor of s	oil to distille	ed water. N	lo correc	ction factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol		scriptions/Notes
Dry	6,064	57.8	Yes	PH02	0.5	-	SW-SM	(0-4') SAND, dry, brown, well grade `	ed with silt, fine to coarse
Dry	372	26.0	No		1 _	_ 1		@1' no stain.	
Dry	<120	181.2	No		2 _	- _ 2		<ul><li>@2' color change to reddish browr</li><li>@4' no odor.</li></ul>	n, pad fill.
Dry	<120	53.2	No		3 _	3			
Dry	<120	18.2	No	PH02	4	_ 4			
$\square$							Total D	Depth	

				Sample Name: PH03	Date: 06/20/2023
		CH		Site Name: Ross Draw Unit	
				Job Number: 18227	7235518 & nAPP2315142829
					Mathadu Daalutaa
		L SAMPLING	LUG	Logged By: EK	Method: Backhoe
Site Coordinates: 3			blarida Taat S	Hole Diameter: N/A	Total Depth: 2' I vapor, respectively. Chloride test
performed with 1:4	dilution factor	of soil to distilled w	ater. No corre	ction factors included.	i vapor, respectively. Chionde test
Moisture Content Chloride (ppm) Vapor	(ppm) Staining	Sample Sample Depth (feet bgs) Depth	US (f	_	Descriptions/Notes
Dry <120 0	0.2 No PH	03 0.5	0 SW-SM	(0-1') SAND, dry, tan, well grade	ed with silt, very fine to fine
Dry <120 0	0.4 No PH	03 1	1		
		I	I Total E	ı Depth	

		1							
				-	<b>N</b> I I	n		Sample Name: PH04	Date: 06/20/2023
		2			CH			Site Name: Ross Draw Unit	#012 7235518 & nAPP2315142829
				_					7235518 & NAPP2315142829
			0.1.				<u></u>	Job Number: 18227	
						NG LUC	כ	Logged By: EK	Method: Backhoe
Site Coo							- <b>-</b>	Hole Diameter: N/A	Total Depth: 2'
perform	ed with	a screei 1:4 dilut	ning ( ion fa	conducte	oil to distille	ed water. I	No correct	trips and PID for chloride and ction factors included.	l vapor, respectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic D	Descriptions/Notes
Moi Co	Chl (p	Va (p	Sta	Sam	Sal De (fee	De (fee	USC:		
Dry	<120	0.0	No	PH04	0.5	0		(0-1') SAND, dry, tan, well grade	ed with silt, very fine to fine
Dry						-			
Dry	<120	0.0	No	PH04	1 _	_ 1			
$\overline{}$							Total D	Depth	
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					Sample Name: PH05	Date: 06/20/2023	
	TE				Site Name: Ross Draw Unit #		
					Incident Number: nHMP1407235518 & nAPP2315142829 Job Number: 18227		
					Logged By: EK	Method: Backhoe	
Site Coordinates: 32					Hole Diameter: N/A	Total Depth: 2'	
			l Chloride			vapor, respectively. Chloride test	
performed with 1:4 d	ilution factor o	f soil to distilled	l water. N	lo correc	tion factors included.		
Moisture Content Chloride (ppm) Vapor	(ppm) Staining Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol		escriptions/Notes	
Dry <120 0.0		0.5	0	SW-SM	(0-1') SAND, dry, tan, well graded	with silt, very fine to fine	
Dry <120 0.0	) No PHO	1	1				
	<u> </u>	· ·		Total D	epth		

				Sample Name: PH06	Date: 06/20/2023	
		ECH		Site Name: Ross Draw Uni		
				Incident Number: nHMP1407235518 & nAPP2315142829		
				Job Number: 18227		
		SOIL SAMPL		Logged By: EK	Method: Backhoe	
		07,-103.8798141	ACH Chlorido Toot	Hole Diameter: N/A	Total Depth: 2' nd vapor, respectively. Chloride test	
				ection factors included.	id vapor, respectively. Chionde test	
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample ID Sample Depth	- <u> </u>		Descriptions/Notes	
Dry <120	0.0 No	PH06 0.5	0 sw-si	M (0-1') SAND, dry, tan, well grad	ded with silt, very fine to fine	
Dry <120	0.0 No	p PH06 1	1			
$\vdash$			I Total	 Depth		

### APPENDIX D

# Photographic Log

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





#### PHOTOGRAPHIC LOG WPX Energy Permian, LLC Ross Draw Unit #012 nHMP1407325518 & nAPP2315142829



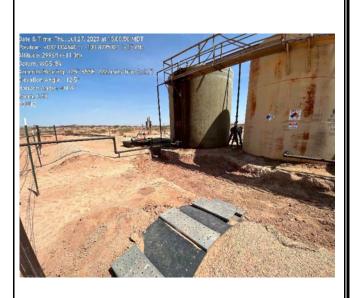
Photograph 1Date: 06/19/2023Description: Eastern view of delineation activitiesnear PH02.



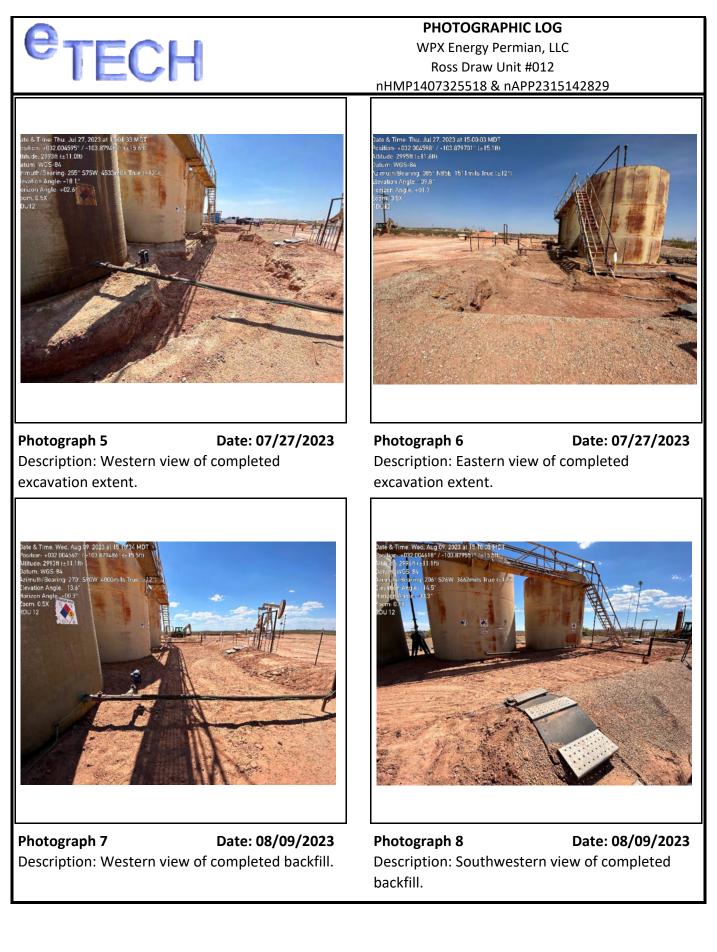
Photograph 2Date: 06/19/2023Description: Northeastern view of delineation<br/>activities near PH03.



Photograph 3Date: 06/19/2023Description: Eastern view of delineation activitiesnear PH06.



Photograph 4Date: 07/27/2023Description: Southeastern view of completedexcavation extent.



### APPENDIX E

### Tables

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e <sub>TEC</sub>	СН				Table 1 SAMPLE ANALYT WPX Energy Pern Ross Draw Uni Eddy County, Nev	nian, LLC t #012				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closur Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
			D	elineation Soil Samples	s - Incident Numbers n	HMP1407235518 & nAP	P2315142829			
PH01	06/20/2023	0.5	<0.0250	0.728	24.5	1,300	542	1,542	1,566.5	6,660
PH01	06/20/2023	2	<0.0250	<0.0250	<20.0	70.6	<50.0	70.6	70.6	<200
PH02	06/20/2023	0.5	<0.0500	<0.0500	<40.0	8,510	4,050	12,560	12,560	6,630
PH02	06/20/2023	4	<0.0250	<0.0250	<20.0	56.4	<50.0	56.4	56.4	<200
PH03	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH03	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH04	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	116
PH04	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH06	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH06	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
			E	xcavation Soil Samples	s - Incident Numbers n	HMP1407235518 & nAP	P2315142829			
FS01	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS02	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	105	69.2	174.2	174.2	212
FS03	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	212	146	358	358.0	381
FS06	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW01	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW02	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Dissel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code Text in "grey" represents excavated soil samples

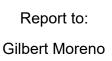
Concentrations in bold exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

## APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

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







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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**Practical Solutions for a Better Tomorrow** 

### **Analytical Report**

### WPX Energy - Carlsbad

Project Name: RDU 12

Work Order: E306160

Job Number: 01058-0007

Received: 6/21/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/21/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/21/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E306160 Date Received: 6/21/2023 10:00:00AM

Gilbert Moreno,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2023 10:00:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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#### Received by OCD: 9/5/2023 9:23:35 AM

### Sample Summary

#### Page 35 of 216

		Sample Sum	mary				
Energy - Carlsbad	Project Name:	RDU 12		Reported:			
Buena Vista Dr		Project Number:	01058-0007		keported:		
bad NM, 88220	Project Manager:	Gilbert Moreno		08/21/23 15:10			
Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
5'	E306160-01A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-02A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5'	E306160-03A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-04A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5'	E306160-05A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-06A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5'	E306160-07A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-08A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5'	E306160-09A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-10A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5'	E306160-11A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
	E306160-12A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.		
5' 5' 5'	E306160-06A E306160-07A E306160-08A E306160-09A E306160-10A E306160-11A	Soil Soil Soil Soil Soil	06/20/23 06/20/23 06/20/23 06/20/23 06/20/23	06/21/23 06/21/23 06/21/23 06/21/23 06/21/23 06/21/23	Glass Jar, 2 oz. Glass Jar, 2 oz.		



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	56	imple D	ata				
WPX Energy - Carlsbad	Project Name:	RDU	J 12				
5315 Buena Vista Dr	Project Numbe	er: 010:	01058-0007				
Carlsbad NM, 88220	Project Manag	er: Gilb	Gilbert Moreno			8/21/2023 3:10:36PM	
		PH01 0.5'					
		E306160-01					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2325049	
Benzene	ND	0.0250	1	06/21/23	06/22/23		
Ethylbenzene	0.128	0.0250	1	06/21/23	06/22/23		
Toluene	ND	0.0250	1	06/21/23	06/22/23		
p-Xylene	0.103	0.0250	1	06/21/23	06/22/23		
o,m-Xylene	0.370	0.0500	1	06/21/23	06/22/23		
Fotal Xylenes	0.472	0.0250	1	06/21/23	06/22/23		
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	06/21/23	06/22/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2325049		
Gasoline Range Organics (C6-C10)	24.5	20.0	1	06/21/23	06/22/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	06/21/23	06/22/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2325064	
Diesel Range Organics (C10-C28)	1300	50.0	2	06/22/23	06/24/23		
Dil Range Organics (C28-C36)	542	100	2	06/22/23	06/24/23		
Surrogate: n-Nonane		88.5 %	50-200	06/22/23	06/24/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2325052	
Chloride	6660	400	20	06/21/23	06/23/23		

### Sample Data

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	с С	sample D	ลเล				
WPX Energy - Carlsbad	Project Name	e: RDU	J 12				
5315 Buena Vista Dr	Project Num	ber: 0103	58-0007			Reported:	
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			8/21/2023 3:10:36PM	
		PH01 2'					
		E306160-02					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2325049	
Benzene	ND	0.0250	1	06/21/23	06/22/23		
Ethylbenzene	ND	0.0250	1	06/21/23	06/22/23		
Toluene	ND	0.0250	1	06/21/23	06/22/23		
o-Xylene	ND	0.0250	1	06/21/23	06/22/23		
p,m-Xylene	ND	0.0500	1	06/21/23	06/22/23		
Total Xylenes	ND	0.0250	1	06/21/23	06/22/23		
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	06/21/23	06/22/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2325049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/22/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	06/21/23	06/22/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2325064	
Diesel Range Organics (C10-C28)	70.6	25.0	1	06/22/23	06/24/23		
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23		
Surrogate: n-Nonane		76.7 %	50-200	06/22/23	06/24/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2325052	
Chloride	ND	200	10	06/21/23	06/23/23		

	25	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDU	J 12			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH02 0.5'				
		E306160-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0500	2	06/21/23	06/23/23	
Ethylbenzene	ND	0.0500	2	06/21/23	06/23/23	
oluene	ND	0.0500	2	06/21/23	06/23/23	
-Xylene	ND	0.0500	2	06/21/23	06/23/23	
,m-Xylene	ND	0.100	2	06/21/23	06/23/23	
Total Xylenes	ND	0.0500	2	06/21/23	06/23/23	
urrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	40.0	2	06/21/23	06/23/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	8510	500	20	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	4050	1000	20	06/22/23	06/24/23	
urrogate: n-Nonane		114 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2325052
Chloride	6630	400	20	06/21/23	06/23/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RDI	J 12			
5315 Buena Vista Dr	Project Numb	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH02 4'				
		E306160-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
p-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	t: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	56.4	25.0	1	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		79.5 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

WPX Energy - Carlsbad Pro	·						
The second	oject Name	: RDU	J 12				
5315 Buena Vista Dr Pro	ject Numb	ber: 0105	58-0007			Reported:	
Carlsbad NM, 88220 Pro	oject Mana	ger: Gilb	ert Moreno			8/21/2023 3:10:36PM	
		PH03 0.5'					
		E306160-05					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325049	
Benzene	ND	0.0250	1	06/21/23	06/23/23		
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23		
Toluene	ND	0.0250	1	06/21/23	06/23/23		
o-Xylene	ND	0.0250	1	06/21/23	06/23/23		
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23		
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23		
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	06/21/23	06/23/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	06/21/23	06/23/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2325064	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23		
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23		
urrogate: n-Nonane		81.8 %	50-200	06/22/23	06/24/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2325052	
Chloride	ND	200	10	06/21/23	06/23/23		

	S	ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RDU	U 12			
5315 Buena Vista Dr	Project Numl	ber: 010	58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	iger: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH03 1'				
		E306160-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: SL		Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Fotal Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		78.3 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RDU	J 12			
5315 Buena Vista Dr	Project Numb	oer: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH04 0.5'				
		E306160-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
p-Xylene	ND	0.0250	1	06/21/23	06/23/23	
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		81.3 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2325052
Chloride	116	100	5	06/21/23	06/23/23	

	3	Sample D	ata			
WPX Energy - Carlsbad	Project Name	e: RDI	J 12			
5315 Buena Vista Dr	Project Num	ber: 010:	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH04 1'				
		E306160-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
enzene	ND	0.0250	1	06/21/23	06/23/23	
thylbenzene	ND	0.0250	1	06/21/23	06/23/23	
bluene	ND	0.0250	1	06/21/23	06/23/23	
Xylene	ND	0.0250	1	06/21/23	06/23/23	
m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
otal Xylenes	ND	0.0250	1	06/21/23	06/23/23	
urrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	06/21/23	06/23/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
asoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	06/21/23	06/23/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2325064
iesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
il Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
urrogate: n-Nonane		92.0 %	50-200	06/22/23	06/24/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2325052
hloride	ND	100	5	06/21/23	06/23/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RDU	J 12			
5315 Buena Vista Dr	Project Numb	ber: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH05 0.5'				
		E306160-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2325049	
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
p-Xylene	ND	0.0250	1	06/21/23	06/23/23	
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		89.9 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	

	3	ample D	ลเล				
WPX Energy - Carlsbad	Project Name	e: RDU	J 12				
5315 Buena Vista Dr	Project Numl	ber: 010	58-0007			Reported:	
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			8/21/2023 3:10:36PM	
		PH05 1'					
		E306160-10					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049	
enzene	ND	0.0250	1	06/21/23	06/23/23		
thylbenzene	ND	0.0250	1	06/21/23	06/23/23		
oluene	ND	0.0250	1	06/21/23	06/23/23		
-Xylene	ND	0.0250	1	06/21/23	06/23/23		
,m-Xylene	ND	0.0500	1	06/21/23	06/23/23		
otal Xylenes	ND	0.0250	1	06/21/23	06/23/23		
urrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	06/21/23	06/23/23		
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049	
asoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23		
urrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	06/21/23	06/23/23		
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2325064	
viesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23		
vil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23		
urrogate: n-Nonane		92.1 %	50-200	06/22/23	06/24/23		
anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2325052	
hloride	ND	100	5	06/21/23	06/23/23		

Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/21/2 PH06 0.5' E306160-11 Reporting Analyte Result Limit Dilution Prepared Analyzed No	<b>Reported:</b> 023 3:10:36PM
Carlsbad NM, 88220     Project Manager:     Gilbert Moreno     8/21/2       PH06 0.5'       E306160-11       Reporting       Analyte     Result     Limit     Dilution     Prepared     Analyzed     No       Volatile Organics by EPA 8021B     mg/kg     mg/kg     Analyst: SL     Batch:       Benzene     ND     0.0250     1     06/21/23     06/23/23       Ethylbenzene     ND     0.0250     1     06/21/23     06/23/23	•
PH06 0.5'           E306160-11           Reporting           Analyte         Result         Limit         Dilution         Prepared         Analyzed         No           Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst: SL         Batch:           Benzene         ND         0.0250         1         06/21/23         06/23/23           Ethylbenzene         ND         0.0250         1         06/21/23         06/23/23	023 3:10:36PM
E306160-11         Reporting         Analyte       Result       Limit       Dilution       Prepared       Analyzed       Not         Volatile Organics by EPA 8021B       mg/kg       mg/kg       Analyst:       SL       Batch:         Benzene       ND       0.0250       1       06/21/23       06/23/23       Ethylbenzene	
Reporting         Analyte       Result       Limit       Dilution       Prepared       Analyzed       No         Volatile Organics by EPA 8021B       mg/kg       mg/kg       Analyst: SL       Batch:         Benzene       ND       0.0250       1       06/21/23       06/23/23         Ethylbenzene       ND       0.0250       1       06/21/23       06/23/23	
AnalyteResultLimitDilutionPreparedAnalyzedNoVolatile Organics by EPA 8021Bmg/kgmg/kgAnalyst: SLBatch:BenzeneND0.0250106/21/2306/23/23EthylbenzeneND0.0250106/21/2306/23/23	
Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst: SL         Batch:           Benzene         ND         0.0250         1         06/21/23         06/23/23           Ethylbenzene         ND         0.0250         1         06/21/23         06/23/23	
ND         0.0250         1         06/21/23         06/23/23           Ethylbenzene         ND         0.0250         1         06/21/23         06/23/23	otes
Ethylbenzene         ND         0.0250         1         06/21/23         06/23/23	2325049
Toluene ND 0.0250 1 06/21/23 06/23/23	
ND 0.0250 1 06/21/23 06/23/23	
ND 0.0500 1 06/21/23 06/23/23	
ND         0.0250         1         06/21/23         06/23/23	
Surrogate: 4-Bromochlorobenzene-PID 96.1 % 70-130 06/21/23 06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: SL Batch:	2325049
Gasoline Range Organics (C6-C10)         ND         20.0         1         06/21/23         06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID 86.5 % 70-130 06/21/23 06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: KM Batch:	2325064
Diesel Range Organics (C10-C28) ND 25.0 1 06/22/23 06/24/23	
Dil Range Organics (C28-C36)         ND         50.0         1         06/22/23         06/24/23	
Surrogate: n-Nonane 92.3 % 50-200 06/22/23 06/24/23	
Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: RAS Batch:	
Chloride ND 200 10 06/21/23 06/23/23	2325052



	3	sample D	ata			
WPX Energy - Carlsbad	Project Name	e: RDU	J 12			
5315 Buena Vista Dr	Project Numl	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			8/21/2023 3:10:36PM
		PH06 1'				
		E306160-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
p-Xylene	ND	0.0250	1	06/21/23	06/23/23	
o,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	06/21/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	t: KM		Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		82.6 %	50-200	06/22/23	06/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: RAS		Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

# QC Summary Data

			D.V. 1.0					
								Reported:
	•	01	058-0007					
	Project Manager:	G	ilbert Moreno					8/21/2023 3:10:36PM
	Volatile O	rganics b	oy EPA 802	1B				Analyst: SL
	Reporting	Spike	Source		Rec		RPD	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	6/21/23 A	nalyzed: 06/22/23
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.61		8.00		95.1	70-130			
						Prepared: 0	6/21/23 A	nalyzed: 06/22/23
5.12	0.0250	5.00		102	70-130			
5.01	0.0250	5.00		100	70-130			
5.08	0.0250	5.00		102	70-130			
5.02	0.0250	5.00		100	70-130			
10.2	0.0500	10.0		102	70-130			
15.2	0.0250	15.0		102	70-130			
7.65		8.00		95.6	70-130			
			Source:	E306159-	07	Prepared: 0	6/21/23 A	nalyzed: 06/22/23
4.99	0.0250	5.00	ND	99.8	54-133			
4.89	0.0250	5.00	ND	97.8	61-133			
4.96	0.0250	5.00	ND	99.1	61-130			
4.89	0.0250	5.00	ND	97.8	63-131			
9.96	0.0500	10.0	ND	99.6	63-131			
14.9	0.0250	15.0	ND	99.0	63-131			
7.59		8.00		94.9	70-130			
			Source:	E306159-	07	Prepared: 0	6/21/23 A	nalyzed: 06/22/23
5.22	0.0250	5.00	ND	104	54-133	4.56	20	
5.14	0.0250	5.00	ND	103	61-133	4.99	20	
5.20	0.0250	5.00	ND	104	61-130	4.72	20	
5.13	0.0250	5.00	ND	103	63-131	4.76	20	
10.4	0.0500	10.0	ND	104	63-131	4.78	20	
10.4	0.0500	10.0	ND	104	03-131	7.70	20	
	ND ND ND ND 7.61 5.12 5.01 5.08 5.02 10.2 15.2 7.65 4.99 4.89 4.96 4.89 9.96 14.9 7.59 5.22 5.14 5.20	Solution         Second graph           ND         0.0250           7.61         0.0250           5.02         0.0250           5.03         0.0250           5.04         0.0250           7.65         0.0250           4.89         0.0250           4.89         0.0250           9.96         0.0500           14.9         0.0250           7.59         5.22         0.0250           5.14         0.0250           5.20         0.0250	ND         0.0250           S.12         0.0250         5.00           5.01         0.0250         5.00           5.02         0.0250         5.00           10.2         0.0250         5.00           4.99         0.0250         5.00           4.89         0.0250         5.00           4.89         0.0250         5.00           9.96         0.0500         10.0           9.96         0.0500         10.0           14.9         0.0250         <	Project Number:         01058-0007 Gilbert Moreno           Volatile Organics by EPA 802           Result         Reporting Limit         Spike Level         Source Result           mg/kg         mg/kg         mg/kg         mg/kg           ND         0.0250         mg/kg         mg/kg           ND         0.0250         mg/kg         mg/kg           ND         0.0250         mg/kg         mg/kg           ND         0.0250         mg/kg         mg/kg           Sile         0.0250         5.00         mg/kg           Mile         0.0250         5.00         mg/kg </td <td>ND         0.0250         Spike         Source           Result         Reporting         Spike         Result         Rec           mg/kg         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           State         ND         0.0250         mg/kg         %           ND         0.0250         ND         0.0250         %           ND         0.0250         ND         0.0250         %           S.12         0.0250         5.00         102           5.01         0.0250         5.00         102           5.02         0.0250         5.00         102           5.03         100         102         102           5.04         0.0250         5.00         102           5.05         5.00         102         102           5.02         0.0250         5.00         102           7.65         8.00         95.6         102           7.65         8.00         95.6         102           7.65         5.00         ND<!--</td--><td>Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting mg/kg         Spike mg/kg         Source Result         Rec Limit           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           Support         0.0250         support         supp</td><td>ND         Spike         Source         Rec         Limit         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mg/kg         mg/kg         mg/kg         mg/kg         %</td><td>ND         O250         Number:         O1058-0007           Project Number:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mp         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           S.12         0.0250         5.00         102         70-130         Prepared:         06/21/23         A           5.01         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.12         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.</td></td>	ND         0.0250         Spike         Source           Result         Reporting         Spike         Result         Rec           mg/kg         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           State         ND         0.0250         mg/kg         %           ND         0.0250         ND         0.0250         %           ND         0.0250         ND         0.0250         %           S.12         0.0250         5.00         102           5.01         0.0250         5.00         102           5.02         0.0250         5.00         102           5.03         100         102         102           5.04         0.0250         5.00         102           5.05         5.00         102         102           5.02         0.0250         5.00         102           7.65         8.00         95.6         102           7.65         8.00         95.6         102           7.65         5.00         ND </td <td>Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting mg/kg         Spike mg/kg         Source Result         Rec Limit           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           Support         0.0250         support         supp</td> <td>ND         Spike         Source         Rec         Limit         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mg/kg         mg/kg         mg/kg         mg/kg         %</td> <td>ND         O250         Number:         O1058-0007           Project Number:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mp         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           S.12         0.0250         5.00         102         70-130         Prepared:         06/21/23         A           5.01         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.12         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.</td>	Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting mg/kg         Spike mg/kg         Source Result         Rec Limit           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           ND         0.0250         support         support         support         %         %           Support         0.0250         support         supp	ND         Spike         Source         Rec         Limit         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mg/kg         mg/kg         mg/kg         mg/kg         %	ND         O250         Number:         O1058-0007           Project Number:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         mp         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           ND         0.0250         ND         0.0250         Prepared:         06/21/23         A           S.12         0.0250         5.00         102         70-130         Prepared:         06/21/23         A           5.01         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.12         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.0250         5.00         100         70-130         Prepared:         06/21/23         A           5.02         0.



# **QC Summary Data**

		$\mathbf{v} \mathbf{v} \mathbf{v}$		ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDU 12 01058-0007 Gilbert Moreno					<b>Reported:</b> 8/21/2023 3:10:36PM
Calisbau IVIVI, 88220	•	, ,			-				6/21/2025 5.10.501 W
	Noi	nhalogenated C	Organics	5 by EPA 801	5D - GI	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325049-BLK1)							Prepared: 0	6/21/23 A	Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			
LCS (2325049-BS2)							Prepared: 0	6/21/23 A	Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			
Matrix Spike (2325049-MS2)				Source: H	2306159-	07	Prepared: 0	6/21/23 A	Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike Dup (2325049-MSD2)				Source: I	2306159-	07	Prepared: 0	6/21/23 A	Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	0.786	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

## **QC Summary Data**

		QC SI		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDU 12 )1058-0007 Gilbert Moreno					<b>Reported:</b> 8/21/2023 3:10:36PM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2325064-BLK1)							Prepared: 0	6/22/23 A	analyzed: 06/23/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			
LCS (2325064-BS1)							Prepared: 0	6/22/23 A	analyzed: 06/23/23
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	34.5		50.0		68.9	50-200			
Matrix Spike (2325064-MS1)				Source: I	2306160-	04	Prepared: 0	6/22/23 A	analyzed: 06/23/23
Diesel Range Organics (C10-C28)	342	25.0	250	56.4	114	38-132			
Surrogate: n-Nonane	31.1		50.0		62.2	50-200			
Matrix Spike Dup (2325064-MSD1)				Source: I	2306160-	04	Prepared: 0	6/22/23 A	analyzed: 06/23/23
Diesel Range Organics (C10-C28)	367	25.0	250	56.4	124	38-132	7.07	20	
Surrogate: n-Nonane	30.7		50.0		61.4	50-200			



## **QC Summary Data**

				<i>J</i>					
WPX Energy - Carlsbad		Project Name:	R	DU 12					Reported:
5315 Buena Vista Dr		Project Number:	: 0	1058-0007					
Carlsbad NM, 88220		Project Manager	r: G	ilbert Moreno					8/21/2023 3:10:36PM
		Anions	by EPA	300.0/9056 <i>A</i>	۱.				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325052-BLK1)							Prepared: 0	6/21/23 A	Analyzed: 06/23/23
Chloride	ND	20.0							
LCS (2325052-BS1)							Prepared: 0	6/21/23 A	Analyzed: 06/23/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2325052-MS1)				Source:	E306159-(	01	Prepared: 0	6/21/23 A	Analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2325052-MSD1)				Source:	E306159-(	)1	Prepared: 0	6/21/23 A	Analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120	0.0462	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 may differ slightly.



# **Definitions and Notes**

-				
l	WPX Energy - Carlsbad	Project Name:	RDU 12	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:10

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



lient: V	NPX Energy Per	rmian LL			Bill To			T	and the second	Lah	Use Or	inly	ALC: NOT			TAT	Т	FPA F	Program
	RDU 12				Attention: Jim Raley	No. Start		Lab V		Lub C	CONTRACTOR OF AN	Num	ber	1D	12D		No. of the second	CWA	SDWA
	Manager: Gilbe	ert More	no		Address: 5315 Buena Vista	a Dr.			COUL	100			-0007				5 day TAT		
	s: 13000 W Cou				City, State, Zip: Carlsbad, N		<u>ر</u>		101.0	***			ind Metho	J	<u> </u>				RCRA
	ate, Zip_Odessa		65		Phone: 575-885-7502		A TEBY	T	λq	T	Т	$\overline{\Box}$		Ī		ΓT			
	832-541-7719		A		Email: jim.raley@dvn.com	n	T STEP	1	RC RC			1 - 1		1.00	1 '	$f = \frac{1}{2}$	1	State	
	Devon-team@et		.com		WBS/WO: JBD 4 2	21169911	1		GRO/DRO/ORO by 5 6 by 8021	-   -		0.0	1	MN	1 /		NM CO	UT AZ	TX
Collecte	ed by: Edyte Kor	nan		14	Incident ID: nAB17027491			1 3 1	nd/c	8U-	5010	300	1		1 '	Ϋ́	· •		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	nAPP2315142	2829	Lab Number	Depth(ft.)	TPH GRO/DR 8015 BTEX by 8021	BTEX by 8021 VOC by 8260	VOC by 8260 Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	,]
10:00	6/20/2023	S	1		PH01		1	0.5'		T	1			x		Ť			
10:10	6/20/2023	S	1	2	PH01		2	2'		×				x		$\square$			
10:20	6/20/2023	S	1		PH02		3	0.5'			T			X	H	$\square$			
10:30	6/20/2023	S	1		PH02		4	4'						X					
10:40	6/20/2023	S	1		PH03		5	0.5'						x					1.0
10:50	6/20/2023	S	1		PH03		0	1'						x					
11:00	6/20/2023	S	1		PH04	-		0.5'						x					
11:10	6/20/2023	S	1		PH04		8	1'						x					
11:20	6/20/2023	S	1		PH05		9	0.5'						x					
11:30	6/20/2023	S	1		PH05		10	1'						x			-		
	nal Instructions		authenticity	of this sample. Tai	im aware that tampering with or intentionally		the sample l	location,	2°								ceived on ice the day t	and the second	pled or
			ud and may	be grounds for legal		ĸ					receiv	ed packe	ad in ice at an	avg tem	ip above	a 0 but les	less than 6 °C on subse	equent days.	
Cu	d by: (Signature)	G Alexandro		20.23 15	515 Alcule Com	ipels	Date 620:	23	Time	5	Rec	eived	d on ice:		ab Us	se Only	у		
and	ped by: (Signature)	ik		2023 17	700 Maren MU	1400	Date 6-20.		Time 110	ð	<u>T1</u>		8.55	<u>T2</u>			<u>T3</u>		
MA	ned by: (Signature)	Vito	Date	-20-23 2	230 Received by: (Signature)	$\sim$	Date QZI	23	, IO	$\mathfrak{A}$		G Tem		4					
Sample Ma	atrix: S - Soil, Sd - Soli	id, Sg - Sludr	ge, A - Aque	ous, O - Other			Containe	r Type	:g-gla	ss, p -	- poly/	plastic	c, ag - amb	ber gl-	ass, v	- VOA	1		ie above

of 216

Clie	nt: W	PX Energy Pe	rmian LLC	2.		Bill To	le de la	1	1	La	ab Use	e On	ly	5			TA	Т	EPA P	rogram
		DU 12				Attention: Jim Raley	1.115		WO#				Number		1D 2	D	3D	Standard	CWA	SDWA
		lanager: Gilbe				Address: 5315 Buena Vista Dr.		E:	306	10	0	OIC	58-00	702				5 day TAT		a series
		13000 W Cou				City, State, Zip: Carlsbad, NM, 882.	20				A	Analy	sis and M	ethoo						RCRA
		e, Zip_Odessa	,TX, 7976	55		Phone: 575-885-7502			Vd C				1.5							
A. 1. A. C. C.	0.01.02.001.02.014.02	32-541-7719 von-team@e	tochony	com		Email: jim.raley@dvn.com WBS/WO: TBP & 21169911			/OR						5			NINAL CO	State	
		by: Edyte Ko				Incident ID: nAB1702749185 GC			/DRC	3021	260	010	300.0		MN		ž			
Ti	1			No. of		nAPP 2315 142829	Lab	h(ft.	GRO	( py 8	by 8	als 60	ride		SOC		y			
	pled	Date Sampled	Matrix	Containers	Sample ID		Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC		GDOC	a bian	Remark	5
11	:40	6/20/2023	S	1		PH06	11	0.5'							х					
11	:50	6/20/2023	S	1		PH06	12	1'							X					
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-																			19	
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										-						-	-			
	ition	al Instruction	c.					1.10										-		
luu	nuon	aimstruction	3.								-									
						aware that tampering with or intentionally mislabelli	ng the sample l	ocatio	in,									ceived on ice the c ess than 6 °C on si		
		of collection is cor d by: (Signature	and the second	Id and may b Date	e grounds for legal a	Action. Sampled by: EK	Date		Time								e Onl		and a sector and secto	
Û	49	in by. (Signature	/		20.23 151	5 HURIDO CAME	Date Co-201	23	1	515	5	Rece	eived on i	ce.	A	V N	eom	iy		
telin		d by: (Signature	) (	Date	Time	Received by: (Signature)	Date		Time	0.	-				0					
4	V VI 0		wp-	- (e)	2022 17	00 ANJUN Milto	620	-23	17	700		<u>T1</u>			T2			<u>T3</u>		
telin	guishe	d by: (Signature	10	Date	1 me	2 3 Received by: (Signature)	Date 21	5	Time		$\sim$			L	+					
V	no	W N	ussi	·	-20-23 2	COULINA	VICV	65	>10	$\overline{\mathbf{v}}$			i Temp °C		1		1/01			
amp		ix: S - Soil, Sd - Sol				ess other arrangements are made. Hazardous s	- A Contraction of the local division of the			_			lastic, ag -				_			

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	ate Received:	06/21/23	10:00	Work Order ID:	E306160
Phone:	(539) 573-4018 Da	ate Logged In:	06/21/23	11:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com Du	ie Date:	06/27/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	he sample ID match the COC?		Yes			
2. Does th	he number of samples per sampling site location match	the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample T</u>	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	Cooler					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	, were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec		Yes			
	minutes of sampling		~			
13. If no v	visible ice, record the temperature. Actual sample tem	nperature: <u>4°</u>	<u>C</u>			
	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
Field Lal						
	field sample labels filled out with the minimum informample ID?	ation:	Yes			
	Date/Time Collected?		Yes			
	collectors name?		Yes			
Sample F	Preservation					
	the COC or field labels indicate the samples were prese	rved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved meta	ls?	No			
<u>Multipha</u>	ase Sample Matrix_					
	the sample have more than one phase, i.e., multiphase?		No			
	, does the COC specify which phase(s) is to be analyzed		NA			
<u>Subcon</u> tr	ract Laboratory					
	amples required to get sent to a subcontract laboratory?		No			
	subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		
	-					

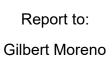
Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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Project li	nformation							of Custor												Pag	ge 1 of 2
	/PX Energy Pe	ermian LL(	с.		In	cident ID	: nAPP	2315	514	28	<b>29</b> Lab	3 I Jse Oi	nly	AP1	40	73	25 TAT	518	EPA	Program	G. Moren
	Manager: Gilbe 13000 W Cou				Add	ention: Jim Raley Iress: 5315 Buena V 7, State, Zip: Carlsba		0	Lab E3	wo#	60	DIC	Numb	er )007 i Metho		2D :		Standard 5 day TAT	and the second se	RCRA	der 10
City, Stat Phone: 8 Email: D	te, Zip_Odessa 32-541-7719 evon-team@e d by: Edyte Ko	a,TX, 797 etechenv.	65		Phc Em: WB	one: 575-885-7502 ail: jim.raley@dvn. S/WO: 고요~ ~ dent ID: nAB17027	com 2116991			TPH GRO/DRO/ORO by 8015	121				WN		×	NM C	State		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		nAPP2315		Lab Number	Depth(ft.)	TPH GRO/I 8015	BTEX by 8021 VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remar	ks	-
10:00	6/20/2023	S	1			PH01		1	0.5'			-	Ū		X						X
10:10	6/20/2023	S	1			PH01		2	2'						X						
10:20	6/20/2023	S	1			PH02		3	0.5'						x						
10:30	6/20/2023 6/20/2023	S	1			PH02 PH03		4	4'						X						
10:50	6/20/2023	s s	1			PH03		5	0.5'						X						of 25
11:00	6/20/2023	S	1			PH04		0	1' 0.5'						X X						Page 25
11:10	6/20/2023	S	1			PH04		8	1'						X		+				Ъа
11:20	6/20/2023	S	1			PH05		9	0.5'						X						-
11:30	6/20/2023	S	1			PH05		ÍÓ	1'						x						Mar .
	al Instruction:														1 AL						
date or time	of collection is con	nsidered frau	id and may b	e grounds for le	gal action.	tampering with or intenti Sampled by	EK					receiv	ed packed	in ice at an	avg tem	p above 0	but less	ved on ice the o s than 6 °C on si	the second second second	and the second	
	d by: (Signature		Date 6.2 Date	0.23	1515 ne	Received by: (Signatur	unpels	Date Lo 20 Date	23	Time	15	Rec	eived o	on ice:	C	b Use / N	Only				
Mill	all Guy	A	11	10-23 I	700	Received by: (Signatur	MUSSo	6-20 Date /	-23	Time 110	90	T1		—,	<u>T2</u>			<u>T3</u>			
MA	1. 1 .1	the	G-A-Aqueo	20-23 2	2230	alleft	K	Containe	23	10	00		G Temp		<u>1</u>	NEE 14-	VOA				
Note: Sam	oles are discarded	d 30 days a	fter results	are reported u	unless other a ratory with th	rrangements are made nis COC. The liability of	Hazardous sar the laboratory is	mples will b	e retur	ned to	client o	r dispo	sed of a	t the clier	nt exp	ense. T	he rep	port for the	analysis of t	he above	P
												E	3	(	2	n	v	ire	ot	ec	hage 56
																	-				of 210
																					CONSTRUCTION OF STREET





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDU 12

Work Order:	E307176

Job Number: 01058-0007

Received: 7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E307176 Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,



Page 58 of 216

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDU 12		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu.
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		08/22/23 13:56
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.5-2'	E307176-01A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS02 0.5-2'	E307176-02A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS03 0.5-2'	E307176-03A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS04 0.5-2'	E307176-04A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS05 0.5-2'	E307176-05A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS06 0.5-2'	E307176-06A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.



	Sa	imple D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numbe Project Manage		J 12 58-0007 ert Moreno			<b>Reported:</b> 8/22/2023 1:56:44PM
Carisbau Nivi, 88220	, ,		ert Moreno			8/22/2023 1.30.44FM
	1	FS01 0.5-2'				
	]	E307176-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
-Xylene	ND	0.0250	1	07/31/23	08/01/23	
,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
urrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
urrogate: n-Nonane		94.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	

# Sample Data



	25	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDU	J 12			
5315 Buena Vista Dr	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			8/22/2023 1:56:44PM
	]	FS02 0.5-2'				
		E307176-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
p-Xylene	ND	0.0250	1	07/31/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Fotal Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	105	25.0	1	07/31/23	08/02/23	
Dil Range Organics (C28-C36)	69.2	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		95.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2331010
Chloride	212	200	10	07/31/23	08/02/23	



WPX Energy - CarlsbadProject Name:RDU 125315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno		<b>Reported:</b> 8/22/2023 1:56:44PM		
		•		
Carlsbad NM, 88220 Project Manager: Gilbert Moreno		8/22/2023 1:56:44PM		
		8/22/2023 1:56:44PM		
FS03 0.5-2'				
E307176-03				
Reporting				
Analyte Result Limit Dilution Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B mg/kg mg/kg Analyst: IY		Batch: 2331002		
Benzene ND 0.0250 1 07/31/23	08/01/23			
Ethylbenzene ND 0.0250 1 07/31/23	08/01/23			
Toluene ND 0.0250 1 07/31/23	08/01/23			
ND 0.0250 1 07/31/23	08/01/23			
p,m-Xylene ND 0.0500 1 07/31/23	08/01/23			
ND         0.0250         1         07/31/23	08/01/23			
Surrogate: 4-Bromochlorobenzene-PID 96.5 % 70-130 07/31/23	08/01/23			
Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY		Batch: 2331002		
Gasoline Range Organics (C6-C10)         ND         20.0         1         07/31/23	08/01/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID 91.8 % 70-130 07/31/23	08/01/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: KM		Batch: 2331016		
Diesel Range Organics (C10-C28) ND 25.0 1 07/31/23	08/02/23			
Dil Range Organics (C28-C36)         ND         50.0         1         07/31/23	08/02/23			
Surrogate: n-Nonane 98.3 % 50-200 07/31/23	08/02/23			
Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: BA		Batch: 2331010		
Chloride ND 200 10 07/31/23	08/02/23			



### Sample Data

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RDI	U 12			
5315 Buena Vista Dr	Project Numb	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	oert Moreno	8/22/2023 1:56:44PM		
		FS04 0.5-2'				
		E307176-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
oluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
urrogate: n-Nonane		94.8 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	

	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDU	J 12			
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			8/22/2023 1:56:44PM
	•	FS05 0.5-2'				
		E307176-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
foluene	ND	0.0250	1	07/31/23	08/01/23	
p-Xylene	ND	0.0250	1	07/31/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Fotal Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	212	25.0	1	07/31/23	08/02/23	
Dil Range Organics (C28-C36)	146	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		98.6 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2331010
Chloride	381	200	10	07/31/23	08/02/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RDU	J 12			
5315 Buena Vista Dr	Project Numb	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno	8/22/2023 1:56:44PM		
		FS06 0.5-2'				
		E307176-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
p-Xylene	ND	0.0250	1	07/31/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Fotal Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		96.7 %	50-200	07/31/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	08/03/23	

# QC Summary Data

		QC D	••	- J	-				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	DU 12 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					8/22/2023 1:56:44PM
		Volatile O	rganics <b>l</b>				Analyst: IY		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331002-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	ND	0.0250					1		<b>j</b>
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0250							
p,m-Aylene Total Xylenes	ND	0.0300							
Surrogate: 4-Bromochlorobenzene-PID	7.73	0.0230	8.00		96.6	70-130			
LCS (2331002-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
p-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			
Matrix Spike (2331002-MS1)				Source:	E307174-	02	Prepared: 0	7/31/23 A	analyzed: 07/31/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			-
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
p-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			
Matrix Spike Dup (2331002-MSD1)				Source: 1	E307174-	02	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.82	20	
	4.91	0.0250	5.00	ND	98.2	61-133	1.54	20	
Ethylbenzene					00 F	61-130		20	
•	4.98	0.0250	5.00	ND	99.5	01-130	1.55	20	
Ethylbenzene Toluene o-Xylene		0.0250 0.0250	5.00 5.00	ND ND	99.5 98.5	63-131	1.55	20 20	
Toluene o-Xylene	4.98								
Toluene	4.98 4.93	0.0250	5.00	ND	98.5	63-131	1.32	20	



# **QC Summary Data**

		QC D	uIIIII	aly Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DU 12 1058-0007 Gilbert Moreno					<b>Reported:</b> 8/22/2023 1:56:44PM
	No	nhalogenated O	Organics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2331002-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2331002-BS2)							Prepared: 0	7/31/23 A	nalyzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
Matrix Spike (2331002-MS2)				Source: I	E <b>307174</b> -	02	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
Matrix Spike Dup (2331002-MSD2)				Source: I	E <b>30717</b> 4-	02	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



## **QC Summary Data**

		QC SI		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDU 12 1058-0007 Gilbert Moreno					<b>Reported:</b> 8/22/2023 1:56:44PM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2331016-BLK1)							Prepared: 0	7/31/23 A	analyzed: 08/02/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.8		50.0		102	50-200			
LCS (2331016-BS1)							Prepared: 0	7/31/23 A	analyzed: 08/02/23
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			
Matrix Spike (2331016-MS1)				Source: <b>F</b>	2307182-	03	Prepared: 0	7/31/23 A	analyzed: 08/02/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			
Matrix Spike Dup (2331016-MSD1)				Source: <b>F</b>	2307182-	03	Prepared: 0	7/31/23 A	analyzed: 08/02/23
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	4.15	20	
Surrogate: n-Nonane	44.3		50.0		88.7	50-200			



## **QC Summary Data**

		L L		J					
WPX Energy - Carlsbad		Project Name:	RI	DU 12					Reported:
5315 Buena Vista Dr		Project Number: 01058-0007							•
Carlsbad NM, 88220		Project Manager	: Gi	ilbert Moreno					8/22/2023 1:56:44PM
		Anions	by EPA 3	600.0/9056A	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331010-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	ND	20.0							
LCS (2331010-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2331010-MS1)				Source:	E307166-	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	333	200	250	ND	133	80-120			M5
Matrix Spike Dup (2331010-MSD1)				Source:	E307166-	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	292	200	250	ND	117	80-120	12.9	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 may differ slightly.



Carlsbad	Project Name:	RDU 12	
sta Dr	Project Number:	01058-0007	Reported:
88220	Project Manager:	Gilbert Moreno	08/22/23 13:56
7	- Carlsbad Yista Dr 88220	Tista Dr Project Number:	Tista Dr Project Number: 01058-0007

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Referoject Information

Clier	t: WPX Energy P	ermian LL	С.			Bill To					La	ab Us	e On	ly				EPA P	rogram		
	ect: RDU 12				Att	ention: Jim Raley			Lab	WO#	ŧ		Job	Numb	er	1D	2D	3D	Standard	CWA	SDWA
Proj	ect Manager: Gill	ert Morei	no			dress: 5315 Buena Vist	a Dr.	ue.	E3	30	117	16	010	58-0	007				5 day TAT		
	ess: 13000 W Co				The second se	y, State, Zip: Carlsbad,	NM, 88220	)				ł	Analy	sis and	Metho	bd					RCRA
	State, Zip_Odess		65			one: 575-885-7502			-	yd C											
_	ne: (832) 541-771	and the second sec				ail: jim.raley@dvn.com	1	-	-	/OR(										State	
	I: Devon-team@		com			0: 21169911			-	DRO	021	60	10	00.00		WN		적	NM CC	UT AZ	TX
	ected by: Edyte K			I	Inc	ident ID: nAPP2315142	2829	Lab	(ft.)	RO/	by 8	oy 82	s 60	de 3		N					
Tir Sam	Date Sampled	Matrix	No. of Containers	Sample ID			_	Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 802:	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
13	00 7/28/2023	S	1			FS01		1	0.5-2							X					
13	10 7/28/2023	S	1			FS02		2	0.5-2							X					
13	20 7/28/2023	S	1			FS03		3	0.5-2							X					
13	30 7/28/2023	S	1		FS04			4	0.5-2							x					
13	40 7/28/2023	S	1		FS05			5	0.5-2							x					
13	50 7/28/2023	S	1		FS06		6	0.5-2							x						
															-	-					
						hype															
_							d.														
٩dd	tional Instructio	ns:																			
	d sampler), attest to the r time of collection is co					t tampering with or intentional Sampled by:	ly mislabelling	the sample l	ocatior	١,									ceived on ice the d ess than 6 °C on su		pled or
Relin	uished by: (Signatur	e)	Date 07/2	8/2023 Time 10:00	1	Received by: (Signatorie)	incle	Date 7.28	-23	Time	000	2	Rece	eived o	on ice:		b Us	e Onl	У		
Relin	uished by: (Signatur	e) malle	- 7-	28:23 17	00	Received by: (Signature)		Date 7.28	8.23	Time	73		T1			T2			Т3		
	uished by: (Signatur		Date		too	Refeived by: (Signature)	an	Date 73	23	Time 7.	15	-	AVG	Temp	°C	4					
Samp	e Matrix: <b>S</b> - Soil, <b>Sd</b> - S	olid, Sg - Slud	ge, A - Aqueo				N	Containe	r Typ	e:g-	glass,	p - p	oly/p	lastic,	ag - am	ber gla	ass, v	- VOA			
Note						arrangements are made. H this COC. The liability of the									the clie	nt expe	nse.	The re	port for the an	alysis of the	above

### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	07/31/23	07:15	Work Order ID:	E307176
hone:	(539) 573-4018 D	ate Logged In:	07/28/23	15:48	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com D	ue Date:	08/04/23	17:00 (4 day TAT)		
Chain o	of Custody (COC)					
	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	o visible ice, record the temperature. Actual sample ter	nperature: 4°	7			
	Container	<u></u>	<u> </u>			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
18. Are	e appropriate volume/weight or number of sample containers	s collected?	Yes			
	e appropriate volume/weight of number of sample containers					
19. Is the			100			
19. Is the Field L:			100			
19. Is the Field La 20. Were	abel		Yes			
19. Is the <u>Field La</u> 20. Were	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?					
19. Is the Field La 20. Were	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		Yes			
19. Is the <u>Field La</u> 20. Were <u>Sample</u>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation:	Yes Yes Yes			
19. Is the Field La 20. Were Sample 21. Doc	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	ation:	Yes Yes Yes No			
19. Is the Field La 20. Were Sample 21. Does 22. Are	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved?	ation: erved?	Yes Yes Yes No NA			
<ol> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Sample</li> <li>Doe:</li> <li>Are</li> <li>Is la</li> </ol>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ation: erved?	Yes Yes Yes No			
<ol> <li>Is the</li> <li>Field La</li> <li>Were</li> <li>Were</li> <li>Sample</li> <li>Doe:</li> <li>Doe:</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> </ol>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix	ation: erved? als?	Yes Yes Yes No NA No			
<ol> <li>Is the Field L:</li> <li>Wern</li> <li>Wern</li> <li>Wern</li> <li>Wern</li> <li>Doe:</li> <li>Doe:</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> <li>Doe:</li> <li>Doe:</li> </ol>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase?	ation: erved? als?	Yes Yes Yes No No			
<ol> <li>Is the Field L:</li> <li>Were</li> <li>Sample</li> <li>O. Were</li> <li>Doc:</li> <li>Doc:</li> <li>Are</li> <li>Is la</li> <li>Multiph</li> <li>Doc:</li> <li>Toc:</li> </ol>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	ation: erved? als?	Yes Yes Yes No NA No			
19. Is the Field L: 20. Were 21. Doc: 22. Are 24. Is la Multiph 26. Doc: 27. If ye Subcom	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze tract Laboratory.	ation: erved? als? d?	Yes Yes Yes No No No			
19. Is the <u>Field L:</u> 20. Were 20. Were 21. Doc: 22. Are 24. Is la <u>Multiph</u> 26. Doc: 27. If yee <u>Subcom</u> 28. Are	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta hase Sample Matrix s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	ation: erved? als? d?	Yes Yes Yes No No	Subcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

-

**Project Information** 

Project: RDU 12

Time

Sampled

13:00

13:10

13:20

13:30

13:40

13:50

Phone: (832) 541-7719

Collected by: Edyte Konan

Date Sampled

7/28/2023

7/28/2023

7/28/2023

7/28/2023

7/28/2023

7/28/2023

Client: WPX Energy Permian LLC.

Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip\_Odessa, TX, 79765

Email: Devon-team@etechenv.com

No. of

Containers

1

1

1

1

1

1

Matrix

S

S

S

S

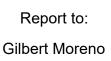
S

S

Chain of InCidentiD: n APP231 Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220	Custody 5년2	Lab E	29 WO#		1	UIU.	10	HO ber 2000	1	Second Second	55 2D	51 TA 3D	Stand 5 day	dard TAT	Per ( EPA Pr CWA	Page <u> <u> </u> </u>	1 of 1 8/2	Received by OCD: 9/5/	
Phone: 575-885-7502           Email: jim.raley@dvn.com           WO: 21169911           Incident ID: nAPP2315142829           Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.D	~3		BGDOC NM		GDOC TX	NI	и со	State UT AZ Remarks	TX		9/5/2023 9:23:35 AM	
FS01 FS02	1	0.5-2 0.5 <sup>-</sup> 2	-							x x								M	
FS03 FS04	2	0.5-2								X									
FS05 FS06		0.5-2° 0.5-2								x x								Page 18 of 18	
tipe																	ſ	гаде	

						40								
Additional Instructions:											26-20	,1	Per	
Add tick wark in report to represent each sample depth as follows: (FSOI through FSOLO @ 0.5-2') (indiver													enc	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location,												1		
date or time of collection is considered fraud and may be grounds for legal action. Sampled by: received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												4		
Relinquished by: (Signature)		Time	Received by: (Sign	iatore)	Date	Time	G MARS		Lab U	se Only				
-tipp-	07/28/2023	10:00	Muchle	Huralle	7.28-23	1000	Receiv	red on ice	: (Y)/N	1				
Relinquished by: (Signature)	Date	Time	Received by: (Sign	ature)	Date	Time			0.					
Malle Linalla	7-2823	1700	Adren	Myso	7.28.23	1730	T1		T2		Т3			
Relinquished by: (Signature)	Date	Time	Refeived by: (Sign	aturahn	Date	Time , -				Sec. Sec.		The second second		
Allew Misso	7.29.23	2400	aitta	Man	7/3/23	1.15	AVG T	emp °C_	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A -	Aqueous, O - Other				Container Typ	e:g-glass,p-	poly/pla	stic, ag - a	mber glass, v	- VOA				
Note: Samples are discarded 30 days after r	esults are reporte	d unless other a	rrangements are m	ade. Hazardous san	nples will be retur	ned to client or	r disposed	of at the cl	ient expense.	The report	for the analy	sis of the above		
samples is applicable only to those samples	received by the la	aboratory with th	his COC. The liabilit	y of the laboratory is	limited to the an	nount paid for d	on the repo	ort.						-
							1			•				ag
							13	6	an	VI	rn	tec	·h	e
						*	5	6	211	VI	IU	ICL		4
														e
														21
														0

Released to Imaging: 9/6/2023 4:19:11 PM





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDU 12

Work Order: E307177

Job Number: 01058-0007

Received: 7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 8/21/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/21/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDU 12 Workorder: E307177 Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDU 12		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		08/21/23 15:16
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-2'	E307177-01A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
SW02 0-2'	E307177-02A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.

C



	Di	ampie D	ala			
WPX Energy - Carlsbad	Project Name:	RDU	J 12			
5315 Buena Vista Dr	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			8/21/2023 3:16:45PM
		SW01 0-2'				
		E307177-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		104 %	50-200	08/01/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	

# Sample Data



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RDU	J 12			
5315 Buena Vista Dr	Project Numb	oer: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			8/21/2023 3:16:45PM
		SW02 0-2'				
		E307177-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
p-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Fotal Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	07/31/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		105 %	50-200	08/01/23	08/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	



# QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DU 12 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					8/21/2023 3:16:45PM
		Volatile O	rganics	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331002-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			
LCS (2331002-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
p-Xylene	5.17	0.0250	5.00		103	70-130			
o,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			
Matrix Spike (2331002-MS1)				Source: 1	E <b>307174</b> -(	02	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
fotal Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			
Matrix Spike Dup (2331002-MSD1)				Source: 1	E <b>307174</b> -(	02	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.82	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.54	20	
Toluene	4.98	0.0250	5.00	ND	99.5	61-130	1.55	20	
o-Xylene	4.93	0.0250	5.00	ND	98.5	63-131	1.32	20	
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.31	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131	1.32	20	



# **QC Summary Data**

		QC S	umm	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		RDU 12 )1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	(	Gilbert Moreno					8/21/2023 3:16:45PM
	No	nhalogenated C	Organics	s by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331002-BLK1)							Prepared: 0	7/31/23 A	analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
LCS (2331002-BS2)							Prepared: 0	7/31/23 A	analyzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
Matrix Spike (2331002-MS2)				Source: I	2307174-	02	Prepared: 0	7/31/23 A	analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
Matrix Spike Dup (2331002-MSD2)				Source: I	307174-	02	Prepared: 0	7/31/23 A	analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



# **QC Summary Data**

		QC SI		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDU 12 1058-0007 Gilbert Moreno					<b>Reported:</b> 8/21/2023 3:16:45PM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2331014-BLK1)							Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2331014-BS1)							Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			
Matrix Spike (2331014-MS1)				Source: <b>F</b>	307166-	01	Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			
Matrix Spike Dup (2331014-MSD1)				Source: <b>F</b>	307166-	01	Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	2.66	20	
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			



# **QC Summary Data**

		L L		J					
WPX Energy - Carlsbad		Project Name:	R	DU 12					Reported:
5315 Buena Vista Dr		Project Number:	: 01	058-0007					•
Carlsbad NM, 88220		Project Manager	:: G	ilbert Moreno					8/21/2023 3:16:45PM
		Anions	by EPA 3	<b>300.0/9056</b> A	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331011-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	ND	20.0							
LCS (2331011-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	264	20.0	250		105	90-110			
Matrix Spike (2331011-MS1)				Source:	E307177-	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	358	200	250	ND	143	80-120			M5
Matrix Spike Dup (2331011-MSD1)				Source:	E307177-	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	282	200	250	ND	113	80-120	23.7	20	R2

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 may differ slightly.



 Definitions and Notes								
WPX Energy - Carlsbad	Project Name:	RDU 12						
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:					
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:16					

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.

R2 The RPD exceeded the acceptance limit.

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Reproject Information

Page	Received
gram	by
SDWA	00
	OCD:
RCRA	9
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	PX Energy Pe	rmian LL	С.				Bill To	42.	2 (B. S.)		La	ab U	se Or	nly				T	TAT		EPA P	rogram
roject: F							ion: Jim Raley		Lab WO		ŧ .		Job Number			- 1	D 2D	3D	St	andard	ard CWA	SDW
	lanager: Gilbe						ss: 5315 Buena Vista Dr.		E:	30	71-	T	DIC	158	-000-	1			5	day TAT		
	13000 W Cou					City, S	tate, Zip: Carlsbad, NM, 882	220					Analy	ysis a	nd Meth	od					1	RCRA
	e, Zip_Odessa		65			Phone	: 575-885-7502			hy						Т						
	32) 541-7719					Email	jim.raley@dvn.com			ORO											State	
mail: De	von-team@e	etechenv.	com			WO: 2	1169911		1	\$0/0	-			0.0			EN I			NM CO	UT AZ	TX
ollected	by: Edyte Ko	nan				Incide	nt ID: nAPP2315142829	1		10/0	802	326(	010	300		- 100		1 T				
Time	Date Sampled	Matrix	No. of	Sample ID	D			Lab	Depth(ft.)	GRC	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDUC	1 N				II
Sampled	Date Sampled	IVIAUIX	Containers					Number	Dep	TPH GRO/DRO/ORO by 8015	BTE	VOC	Met	Chlo			BGI	GDOC			Remarks	
14:00	7/28/2023	S	1				SW01	1	0-2								x			-		
14:10	7/28/2023	S	1				SW02	2	0-2	ı							x					
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ddition	al Instruction	is:										-			I			_				
ate or time	of collection is co	nsidered frau					npering with or intentionally mislabell Sampled by:	ing the sample	ocatio	n,										d on ice the day an 6 °C on sub		
elinquishe	ed by: (Signature	2)		8/2023	Time 10:00	9	Mille Cemicale	ar 7,27,27,27 Time 1000					Lab Use Only Received on ice:									
Mid	ed by: (Signature	mals	L 7	-28:23	Time		eceived by: (Signature)	Date 7.28	.23	Time	73		1							<u>T3</u>		
Relinquished by: (Signature) Date Time R Aldolow NWS90 7.29.23 7400			DR	arth Man	Date	23	Time 7,	15	-	1.00		np °C	4									
mple Mat	rix: S - Soil, Sd - So	olid, Sg - Slud	ge, A - Aque	ous, <b>O</b> - Other	r		and the second	Containe	r Typ	e:g-	glass,	, p - p				nber	glass,	v - VC	A			
ote: Sam	oles are discarde	ed 30 days a	after results	are reporte	ed unless o	ther arra	ngements are made. Hazardous : COC. The liability of the laborator	samples will b	e retu	rned to	o clier	nt or o	dispos	ed of	at the clie					for the ana	lysis of the	above

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	WPX Energy - Carlsbad I	Date Received:	07/31/23	07:15	Work Order ID:	E307177
Phone:	(539) 573-4018 I	Date Logged In:	07/28/23	15:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	08/04/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location matcl	n the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Comment	ts/Resolution
Sample '	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	•					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tł	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
•	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are r		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample te	mperature: 1º	C			
		mperature. <u>4</u>	<u>c</u>			
-	<u>Container</u>		3.7			
	aqueous VOC samples present?		No Na			
15. Are V	VOC samples collected in VOA Vials?		NA			
15. Are V 16. Is the	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)?		NA NA			
15. Are V 16. Is the 17. Was	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA NA			
15. Are V 16. Is the 17. Was 18. Are r	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?	rs collected?	NA NA NA Yes			
<ol> <li>15. Are V</li> <li>16. Is the</li> <li>17. Was</li> <li>18. Are r</li> <li>19. Is the</li> </ol>	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe	rs collected?	NA NA NA			
<ul> <li>15. Are V</li> <li>16. Is the</li> <li>17. Was</li> <li>18. Are r</li> <li>19. Is the</li> <li>Field La</li> </ul>	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <u>abel</u>		NA NA NA Yes			
<ol> <li>Are V</li> <li>Is the</li> <li>I7. Was</li> <li>Are r</li> <li>I8. Are r</li> <li>I9. Is the</li> <li>Field La</li> <li>Were</li> </ol>	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe		NA NA NA Yes			
<ul> <li>15. Are V</li> <li>16. Is the</li> <li>17. Was</li> <li>18. Are r</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ul>	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inform		NA NA Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inforr Sample ID?		NA NA Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I C Sample	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inforr Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b>	nation:	NA NA Yes Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the <b>Field La</b> 20. Were S I C Sample 21. Does	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were preserved.	nation:	NA NA Ves Yes Yes Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the <b>Field La</b> 20. Were <u>Sample</u> 21. Does 22. Are s	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inforr Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were press sample(s) correctly preserved?	nation: served?	NA NA Yes Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the <b>Field La</b> 20. Were <u>Sample</u> 21. Does 22. Are s	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were preserved.	nation: served?	NA NA Ves Yes Yes Yes Yes			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I (C Sample) 21. Does 22. Are s 24. Is lab Multiph	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved me <b>ase Sample Matrix</b>	nation: served? tals?	NA NA Yes Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I ( Sample 21. Does 22. Are s 24. Is lat Multiph	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were presessample(s) correctly preserved? o filteration required and/or requested for dissolved me	nation: served? tals?	NA NA Yes Yes Yes Yes No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the <b>Field La</b> 20. Were Sample 21. Does 22. Are s 24. Is lat <b>Multiph</b> 26. Does	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved me <b>ase Sample Matrix</b>	nation: served? tals? ?	NA NA Yes Yes Yes Yes No NA			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were S I C Sample 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If yes	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe <b>bel</b> e field sample labels filled out with the minimum inforr Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> a the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved me <b>ase Sample Matrix</b> is the sample have more than one phase, i.e., multiphase	nation: served? tals? ?	NA NA Yes Yes Yes Yes No No			
15. Are V 16. Is the 17. Was 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If ye:	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containe thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation 6 the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved me ase Sample Matrix 5 the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyz	nation: served? tals? ? ed?	NA NA Yes Yes Yes Yes No No			

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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Released to Imaging: 9/6/2023 4:19:11 PM

#### Page 1 of 1

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Project Ir	formation							Chain o	of Custod	y .			1			-					.~		Page	1 of 1	red by
Client: W	DV Enormy De	rmine 11/	-			In	rident ID	: nAPP2	2315	14:	28	29	3	n	HV	AP.	140	70	32	55	18	and	perG	1 Mo	reigo
Project: I	PX Energy Pe	innian LL	···	-			BI	110				L	ab Us	se On	ly	1000	-	0.10		TAT		EPAI	Program	8	2 23
	Aanager: Gilb	ert More	10			Atte	ntion: Jim Raley ress: 5315 Buena	Victo Dr		Lab	wo 30	#		Idol	vum	-000	7-	0 2	D 3			CWA	SDWA		
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# APPENDIX G

# **NMOCD** Notifications

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



#### **Erick Herrera**

From:	Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov></robert.hamlet@emnrd.nm.gov>
Sent:	Thursday, June 15, 2023 8:35 AM
То:	Raley, Jim
Cc:	Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Approval) - RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and nAPP2315142829

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

RE: Incident #NHMP1407325518 and NAPP2315142829

#### Jim,

Your request for an extension to **September 28th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Wednesday, June 14, 2023 1:57 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and nAPP2315142829

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for reports required in 19.15.29.12.B.(1) NMAC at the Ross Draw #012 (Site).

Two crude oil and produced water releases were discovered between March 5, 2014, and January 11, 2017, and subsequently assigned Incident Number nHMP1407235518 and nAB1702749185, respectively. NMOCD recently denied a closure report associated with both inadvertent releases on March 29, 2023, due to inadequate depth to groundwater data. As a result, NMOCD set a new due date for a subsequent report for June 30, 2023. Currently, there is new soil boring data to support the depth to groundwater determination at the Site. However, an additional inadvertent release of release of produced water occurred on May 15, 2023 (nAPP2315142829) and overlapped the same earthen

containment impacted by nHMP1407235518, therefore additional investigation is warranted to determine the presence or absence of impacts. Incident Number nAB1702749185 occurred in a separate location, therefore, a closure addendum will be submitted to address the denial.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nHMP1407235518 and nAPP2315142829 to September 28, 2023.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

#### **Erick Herrera**

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Friday, June 16, 2023 3:37 PM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Thursday, June 15, 2023 3:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm\_nm\_cfo\_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

WPX anticipates conducting confirmation soil sampling activities at the following sites between June 20 – June 23, 2023:

Site Name: North Brushy PW Line Incident Numbers: nAPP2231126594 & nAPP2312845934

Site Name: RDX 9#004 Incident Number: nAB1803254347 API: 30-015-40180

Site Name: RDX Federal COM 28 #009H Incident Number: nAB1632648516 API: 30-015-43294

Site Name: Holly A Federal #006

Incident Number: nAPP2116548791 API: 30-015-25331

Site Name: Ross Draw #012 Incident Numbers: nHMP1407235518 and nAPP2315142829 API: 30-015-24793

Thank you,

Erick Herrera Staff Geologist

e Environmental & Safety Solutions, Inc.

Work: (432) 305-6416 Cell: (281) 777-4152

#### **Erick Herrera**

From: Sent:	Wells, Shelly, EMNRD <shelly.wells@emnrd.nm.gov> Monday, July 24, 2023 2:27 PM</shelly.wells@emnrd.nm.gov>
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (7/27 - 7/28)
•	

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

Good afternoon Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 <u>| Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com>
Sent: Monday, July 24, 2023 9:30 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm\_nm\_cfo\_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (7/27 - 7/28)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between July 27 through July 28, 2023:

Proposed Date: July 27, 2023 & July 28, 2023, Proposed Timeframe: 0800 – 1700 hrs. Site Name: Ross Draw #012 Incident Numbers: nHMP1407325518 (2RP-2211) & nAPP2315142829 API: 30-015-24793

Thank you,

#### **Erick Herrera**

•

Staff Geologist

C Н nental & Safety Solutions, Inc.

Work: (432) 305-6416 Cell: (281) 777-4152

# **APPENDIX H**

# **Original Closure Request**

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,

Inde tomback

Lynda Laumbach Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments: Attachment 01 Site Characterization Report & Soil Closure Report

District (	<b>aa</b>		R	ECEIVE	<b>D</b>				
1625 N French Dr., Hobbs, NM 88240	· · · · · · · · · ·	f New Mexico s and Natural Resources MAR 06 2014 Revised August 8							
811 S. First St., Artesia, NM 88210	Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office NMOCD ARTICE dame with 19.15.29 NMA								
1000 Rio Brazos Road, Aztec, NM 87410		St. Francis	s Dr.	OCD ART	Rendance with 19.15.29 NMAC.				
1220 S. St. Francis Dr., Santa Fe, NM 87505		e, NM 8750			· · · · · · · · · · · · · · · · · · ·				
	Release Notification and Corrective Action								
nHmp1407325518 246		OPERAT			al Report 🔲 Final Report				
Name of Company RKI EXPLORATION & PRODUC Address 210 PARK AVE, STE 900, OKC, OK 731			HEATHER BE 0. 405-996-57						
Facility Name ROSS DRAW 12		Facility Type		Q3					
	al Owner			APINO	. 30-015-24793				
LO	CATIO	N OF REL	EASE	<b>__</b>					
Unit Letter Section Township Range Feet from th		<u> </u>	Feet from the	East/West Line	County				
A 33 26S 30E 467'	NC	DRTH	660'	EAST	EDDY				
Latitude		Longitude							
N	ATURE	OF RELE	ASE						
Type of Release OILWATER Source of Release TRANSFER PUMP		Volume of H	Release 15 BE our of Occurrence		Recovered 0 BBLS Hour of Discovery				
Was Immediate Notice Given?		If YES, To Y		14 UKN TIME					
	t Required				3/5/14 @ 9:00 AM				
By Whom? M. BALLIET, BLM Was a Watercourse Reached?		Date and He If YES, Vol	our ume Impacting th	e Watercourse.					
Tes 🕅 No		N/A							
If a Watercourse was Impacted, Describe Fully.*									
·									
Describe Cause of Problem and Remedial Action Taken.*									
WATER TANK RAN OVER, TRANSFER PUMP	OVERLO	AD.							
Describe Area Affected and Cleanup Action Taken.*									
SPILL WAS CONTAINED IN DIRT CONTAINME	NI; DYK	E							
I hereby certify that the information given above is true and co regulations all operators are required to report and/or file certa	inplete to t	he best of my k otifications and	knowledge and ur d perform correct	derstand that pure	suant to NMOCD rules and eases which may endanger				
public health or the environment. The acceptance of a C-141	report by th	e NMOCD ma	rked as "Final Re	port" does not rel	ieve the operator of liability				
should their operations have failed to adequately investigate a or the environment. In addition, NMOCD acceptance of a C-	nd remediat 141 report d	e contaminatio locs not relieve	on that pose a three the operator of re-	at to ground wate esponsibility for c	r, surface water, human health compliance with any other				
federal, state, or local laws and/or regulations.				ERVATION					
Signature: Alacher Popum			<u>QIL CONS</u>	/					
Printed Name: Heather Brehm		Approved by I	Environmental Sp	ecialist:	- /				
Title: Regulatory Analyst		Approval Date: 3-14-14 Expiration Date: NA							
E-mail Address: hbrehm@rkixp.com									
	í	Conditions of Approval:							
Date: 3/06/2014 Phone: 405-996-5 * Attach Additional Sheets If Necessary	/09    i	Remediation     per OCD Rule & Guidelinés, &       like approval by BLM.     SUBMIT REMEDIATION       DODOTION     DEP 7211							
· · · · · · · · · · · · · · · · · · ·		PROPI	<u>OSAL NO LATER</u>	THAN:	2FP 2211				
			4-14-14	Ł ,					

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Oil Conservation Division

Incident ID	2RP-2211
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 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.

- 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
- X Depth to water determination
- X Determination of water sources and significant watercourses within ½-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.

Received by OCD: 9/3	5/2023 9:23:35 AM State of New Mexico			Page 100 of 21					
				Incident ID	2RP-2211				
Page 4	Oil Conservation Division			District RP					
				Facility ID					
				Application ID					
regulations all operator public health or the er failed to adequately in addition, OCD accepts and/or regulations. Printed Name: Signature:	the information given above is true and complete to the ors are required to report and/or file certain release not invironment. The acceptance of a C-141 report by the investigate and remediate contamination that pose a thr ance of a C-141 report does not relieve the operator of Lynda Laumbach	ifications an OCD does n eat to ground f responsibil 	nd perform co ot relieve the dwater, surfac ity for compli	rrective actions for rele operator of liability sho ce water, human health iance with any other feo ntal Specialist	ases which may endanger ould their operations have or the environment. In				
OCD Only		D	<b>-</b>						
Received by:		L	Date:						

Page 6

Oil Conservation Division

Incident ID	2RP-2211
District RP	
Facility ID	
Application ID	

# Closure

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

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			
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: Lynda Laumbach Title: Environmental Specialist Signature: Date: 03/26/2020 email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647			
OCD Only			
Received by: Date:			
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: Date:			
Printed 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

N.S. Hdg.

Joseph S. Hernandez - Project Manager

Intentional Blank

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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PROJECT INFORMATION (2RP-2211 & 2RP-4095)	1.0 & 1.0A
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CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	
REMEDIATION ACTIVITIES SUMMARY	
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN	
SOIL CLOSURE REQUEST.	6.0
LIMITATIONS.	
DISTRIBUTION.	

#### FIGURES

Figure 1 - Topographic Map Figure 2 - Aerial Proximity Map Figure 3 (2RP-2211) & 3A (2RP-4095) - Site & Sample Location Map

#### TABLES

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil (2RP-2211)

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:

		Locati	on of Release Sou	rce	
.atitude:	32.00	)4760	Longitud		-103.8797758
		Provided G	PS are in WGS84	format.	
Site Name:		DRAW 12	Site Type:		Wellhead
Date Release Dis	covered:	2/25/2014	API # (if app	licable):	30-015-24793
Unit Letter	Section	Township	Range	County	
А	33	265	30E	Eddy	
Surface Owner:	State X		l Private (Na		
X     Crude Oil       X     Produced Water   Volume Released (bbls) 15 Volume Recovered (bbls) 0				ecovered (bbls) 0	
		oncentration of disso ed water > 10,000 m		ne Ye	s No X N/A
Condensate Volume Released (bbls) Volume Recovered (bbls)		ecovered (bbls)			
Natural Gas         Volume Released (Mcf)         Volume Recovered		ecovered (Mcf)			
Other (desc	ribe) Volume	Volume/Weight Released		Volume/Weight Recovered	
Cause of Releas This release was		ansfer pump overloa	ad, resulting in the	water tank to o	overflow.
		Ι	nitial Response		
X The source	of the release h	as been stopped.			
X The impacte	d area has beer	secured to protect	human health and	the environment	nt.
X Release mat	terials have bee	en contained via the	use of berms or di	kes, absorbent	pad, or other containment devic
_	• • •	able materials have	1 1		· . 1

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:

Latitude:	32.004760	Longitude:	-103.8797758
Luntudo		led GPS are in'Y I U	
Site Name: Date Release Discovere	RDU 12 ed: 1/11/2017	Site Type: API # (if appli	Wellhead           cable):         30-015-24793
	ctionTownship33268	Range 30E	County Eddy
Surface Owner: Sta	ate X Federal Triba	al Private (Nan	ne
	Nature	and Volume of Rele	ease
X     Crude Oil     Volume Released (bbls) 12     Volume Recover			Volume Recovered (bbls) 4.5
	Is the concentration of diss produced water > 10,000 n		Yes No X N/A
Condensate Volume Released (bbls) Volume Recovered (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 cause drainage and migrated		box failure. The spill	migrated west of the pad, entered a dry
	]	Initial Response	
	release has been stopped. has been secured to protect	human health and th	e environment
	Ĩ		es, absorbent pad, or other containment devic
			nanaged 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	
>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	

### 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.

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?	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**

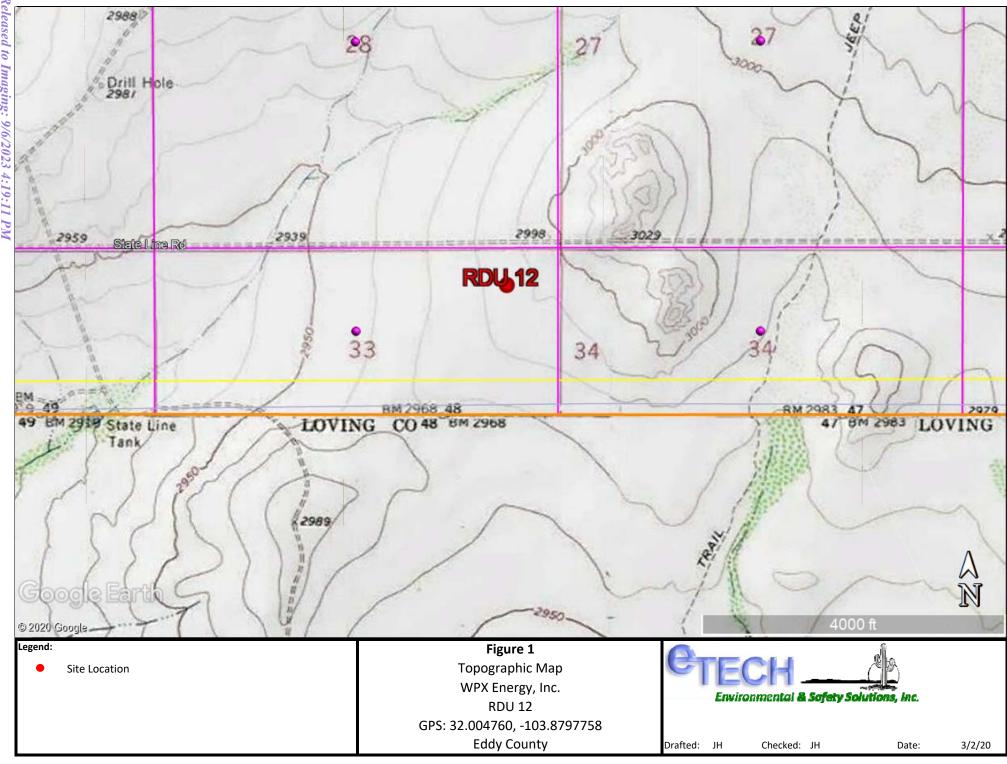
WPX Energy, Inc. 5315 Buena Vista Dr. Carlsbad, NM 88220

New Mexico Energy, Minerals and Natural Resources Department

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

(Electronic Submission)

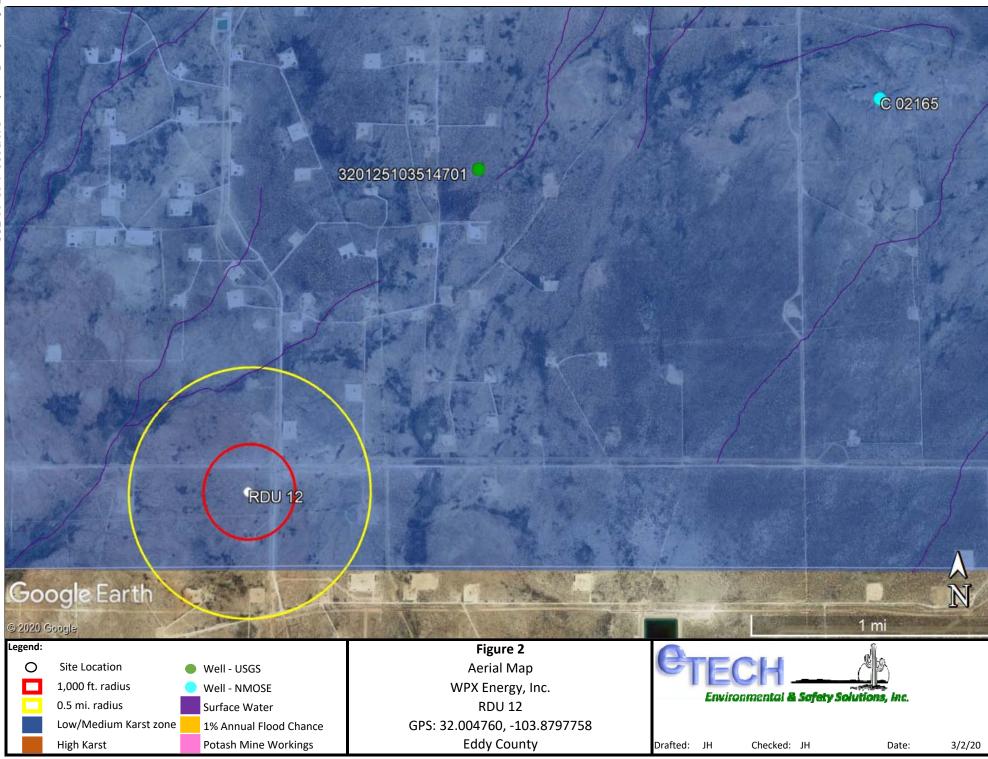
# Figure 1 Topographic Map



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# Figure 2 Aerial Proximity Map

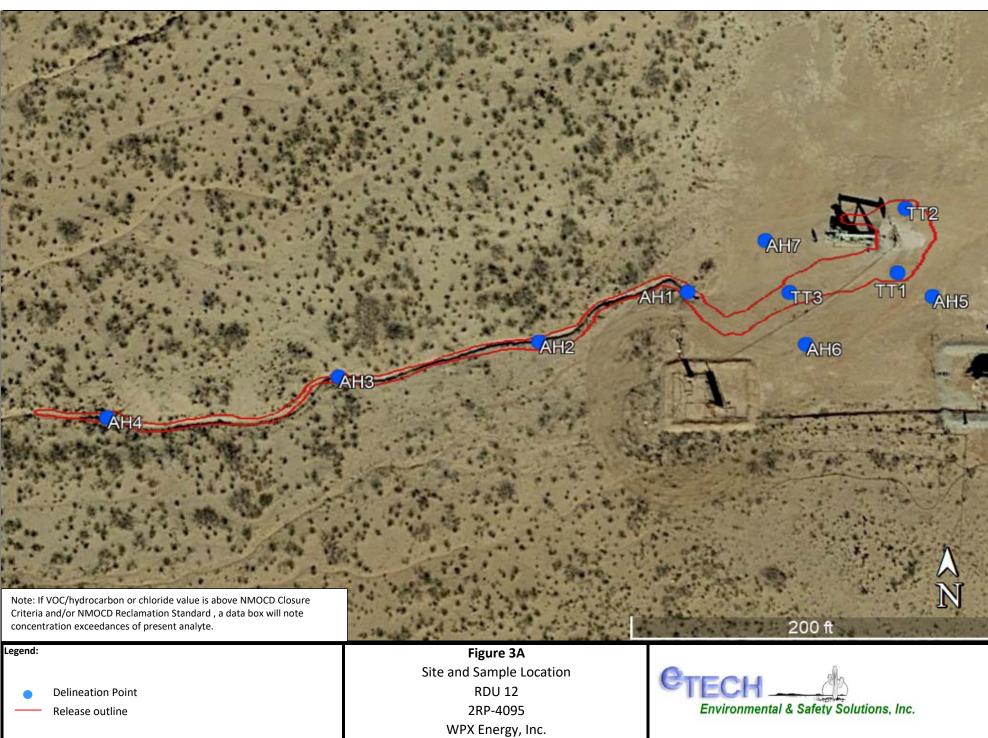


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# Figure 3 Site and Sample Location Map



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GPS: 31.004760, -103.879775

Drafted: JH

Checked: JH

2/28/20

Date:

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

			TAB	LE 1			
CONC	ENTRAT	IONS OF E	BENZENE,	BTEX TPH	AND CHLC	ORIDE IN S	SOIL
			WPX Ene	ergy, Inc.			
			ROSS D	RAW 12			
			2RP-	2211			
		SW 846	5 8026B		SW	846 8015M	Ext.

					WPX Ene						
						RAW 12					
	1				2RP-	2211					
				SW 846	5 8026B		SM	846 8015M	Ext.		300.0 Cl
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
(	<u>Closure Cri</u>	teria		10	50	-	-	1,000	-	2,500	20,000
NOTES:											

NOTES:

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- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

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		CONC	ENTRAT	IONS OF E	BENZENE, WPX Ene RDU		AND CHL	ORIDE IN S	SOIL		
Sample ID	Date	Depth	Soil Status	SW 846 Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	SV DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	/ 846 8015M GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	Ext. ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	300.0 Cl Chloride (mg/kg)
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

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NOTES:

- = 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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Reselect period

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** 

Table of data Tab-separated data Graph of data

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

		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.

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

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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 09:57:48 EST 0.28 0.26 nadww01



USGS Home Contact USGS Search USGS

## National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
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Groundwater levels for the Nation

## Search Results -- 1 sites found

Agency code = usgs site\_no list = • 320125103514701

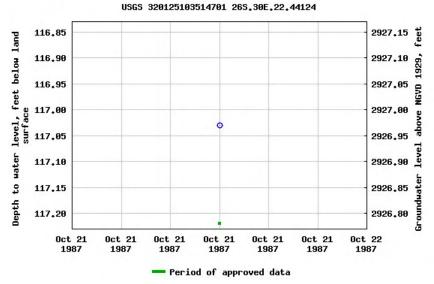
### Minimum number of levels = 1

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



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# 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, med,							' 2=NE st to lar	3=SW 4=SE rgest) (N	) IAD83 UTM in n	neters)	(In :	feet)	
		POD		~	~	~									
POD Number	Code	Sub-	County		Q		Sec	Twe	Rna	X	Y	DistanceDe	pthWellDep		Water
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<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 Wa	ter:	215 fe	et
												Minimum D	epth:	0 fe	et
												Maximum De	epth:	320 fe	et

#### Record Count: 12

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

Easting (X): 605808.6733984414

#### 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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER

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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.

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WATER RIGHT SUMMARY

# Appendix B Field Data and Soil Profile Logs



Sam	ple	Log

Enviro	nmental & Safety	Solutions, Inc.				Date:	Jun 23, 2020
Project:	RDU	12 (2RP-2211, 2	DD 4005)			Date:	Jan 23, 2020
Project N	umber:	11 (2KP-2211, 1	2RP-4095) 755	Latitude:	32.00476033	Longitude:	-103.8797759
					02.00470000		100.0707700
	Sample		PID/Odor		Chloride Conc.		GPS
TT	CI	@ 3:10 pm	1.7   none	4.0	5	80	32.004571 -103.879486
	2'		opnone	3.8	1	528	
TT	4'	@ 3:20 pm	e ' 1'	1.2		108	
TT 2	e l'	@ 3:30 pm	2.0 / none	4.2		-32	32.004572, -103.879565
	2'	@ 3:45 pm		4.0		50	
111	4'	@ 3:50 pm	a 10	1.8		32	
AHI_	e i	@ 1:00 pm	1.3/ NOME	7.6		.076	32.004553,-103.879662
	- 2'	@ lilf pm	of none	6.6		,488	
	4'	@ 1:30 pm	1.7 / none	7.0			* Auger max depts
			'			,	
					_		

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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Environmental &	Safety Solutions, Inc.			Soil Prot		
Project:	RDU 12 (2	PD 22111			Date: Jor	22-23,2020
Project Number	r:	11755	Latitude:	32.00476033	Longitude:	-103.8797759
Depth (ft. bgs)				Des	cription	
1		light n	edium brown s	silly sond trace	caliche	
2		medium	n frown silly	silly sand trace		
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Sample Log         Date: Z.25.4.0         Project:       RDU 12 (2RP-2211)         Project:       Introduction of the second sec	етеси	a	4						
Project:       RDU 12 (2RP-2211)       Date: $Z \cdot 25 \cdot 2.6$ Project Number:       11755       Latitude:       32.00476033       Longitude:       -103.8797759         Sample ID       PID/Odor       Chloride Conc.       GPS $AH 2Q$ $I'$ $3:2_{2:n}$ $0hout$ $2.2 \rightarrow$ $220$ $32.0047631, -103.874777, -103.8747, -103.874777, -103.874777, -103.8747, -103.874777, -103.874777, -103.8747, -103.874777, -103.8746, -103.8746, -103.87$		fety Solution	E Inc.			Sa	mple Lo	g	
Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759 Sample ID PID/Odor Chloride Conc. GPS AH Z Q 1' 3:20 m 0/ how 2.Z → 2.ZO 32.004637, -103.8797759 3' 3:30 pm 1' 1/2 → 1/24 AH 3 Q 1' 3:32 pm 1' 1/2 → 1/24 AH 3 Q 1' 3:32 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/24 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 Q 1' 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1/2 → 1/2 4 AH 4 1 Q 1/2 4:10 pm 1' 1								Date:	2.25.20
Sample ID         PID/Odor         Chloride Conc.         GPS $AH 2Q$ $I'$ $3!2pm$ $qhoote$ $2!Z$ $\rightarrow$ $2!O 04(31) - 103.874 C T T$ $3'$ $3!2pm$ $Qhoote$ $I.C.R$		RDU							
AH 2Q     // 3:20m     Ohnow     CLONDRE CONC.     GPS       2'     3:20m     Ohnow     2:2     32:004(31, -103.87467)       3'     3:20m     O/now     1:6     HB       3'     3:20m     O/now     1:4     124       H3.Q     1'     3:20m     O/now     1:4     124       AH 3.Q     1'     3:20m     0/now     1:8			11	/55	Latitude:	32.0047	76033	Longitude:	-103.8797759
AH 2(2       1'       3:20 m       0 hose       2:2       3:20       3:20       3:20       3:374671         2'       3:25 pr       0 / hose       1:6       H3       1:4       H3         4'       3':3:20 pr       0 / hose       1:4       H24       H3         AH 3       0       1':3:50 pr       0 / hose       1:4       H24         AH 3       0       1':3:50 pr       0 / hose       1:4       H3       1:4       H3         2'       4:10 pr       ''       1:0       2:124       1:4       1:4       1:4         4'       4':50 pr       0 / hose       1:2       4:124       3:2.004950, -103:8790442         2'       4:10 pr       ''       1:0       2:0       1:4       3:2.004950, -103:8790442         2'       4:2 pr       1:1       0       2:0       1:4       3:2.004950, -103:8790442         2'       4:3 frager       ''       1:0       2:0       1:4       3:2.004950, -103:8790442         3'       4:3 frager       ''       1:0       2:0       1:10       1:0       1:0         4H 4'       9:10 frager       1:0       2:0       1:10       1:2 frager       1:0	Sam	ple ID		PID/Odor		Chloride	Conc		CDC
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AH / Q       G'       5:65pr       0/none       //4       J       /2.4         Image: Strain S									
J         J         J         J         J         J           Image: Second	AHIP								
Floor = FL #1 etc     Refusal = SP #1 @ 4'-R     Resamples= SP #1 @ 5b or SW #1b       Sidewall = SW #1 etc     Soil Intended to be Deferred _ CD #4 - CD     Stockpile = Stockpile #1	e			<i>c/1</i>	117		129		
Floor = FL #1 etc     Refusal = SP #1 @ 4'-R     Resamples= SP #1 @ 5b or SW #1b       Sidewall = SW #1 etc     Soil Intended to be Deferred _ CD #4 - CD     Stockpile = Stockpile #1									
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Floor = FL #1 etc     Refusal = SP #1 @ 4'-R     Resamples= SP #1 @ 5b or SW #1b       Sidewall = SW #1 etc     Soil Intended to be Deferred = CP #2 @ 50 #2     Stockpile = Stockpile #1									
Floor = FL #1 etc     Refusal = SP #1 @ 4'-R     Resamples= SP #1 @ 5b or SW #1b       Sidewall = SW #1 etc     Soil Intended to be Deferred = CP #2 @ 50 #2     Stockpile = Stockpile #1									
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Floor = FL #1 etc       Refusal = SP #1 @ 4'-R       Stockpile = Stockpile #1         Sidewall = SW #1 etc       Soil Intended to be Deformed = CP #1 @ 7 # # 0 # 0	Sample Point = S	P #1 @ ##	# etc			Test Trench = T	T #1 @ ##		Personal and an and an and an
Sidewall = SW #1 etc Soil Intended to be Deferred - CD #4 - CD									
	Sidewall = S	W #1 etc			Soil Intend			l' In-Situ	

TECH	) 	Soil Profile									
Environmental & Safety Solutions,				Date:	05.52.20						
ject: RDU ject Number:	12 (2RP-2211)		22.00476022		400 0707750						
-	11755	Latitude:	32.00476033	Longitude:	-103.8797759						
th (ft. bgs)			Des	cription							
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Safety Solutions, Inc.		T == 22 2070
Project: RDU 12 (200 2211 (200 1005)		Date: Jun 22-23, 2020
Project Number	atitude: 32.00476033	Longitude: -103.8797759
Sample ID PID/Odor	Chloride Conc.	GPS
TTI @ 1'@ 1:35 pm 10.0/mild	7.2 1,812	32.004723, -103.879 774
	4.6 744	
4' @ 1:50 pm 40.0/mild	5.4 996	
6' @ 1:55 pm 20.5/mild	6.8 1,598	
B' 10 2:00 pm 30.0 [mild ~	4.8 804	
10 10 2:15 pm 5.4 / mild	5.0 864	
12' @ 2:20 pm 0.1/ none	1.0 2108	
TTZ @ 1' @ 10:30 am 2.0 / Rome	5.6 1,068	32.004828,-103.879758
2' @ 10:45 am 0 / none 4	744	,
41 @ 10:50 am " " 2	2.0 164	
JT3 @ 1' @ 11:00 am 1.3/ nove 6	.2 1,304	37.004690, -103.879971
	.0 1,220	
4' @ 11:20 am 1' " 1.	.4 6108	
AHI @ 1' @ 11: STam O/none 3.	.0 348	32.004691, -103.880156
2' @ 12:00pm " " 1.	8 132	
	2 < 108	
AHZ @ 1' @ 12:07 pm 0/ nome Z.	4 232	32.004609, -107.880425
2' 0 12:10pm " " 1.1	0 <109	
4' @ 12'5 pm " " 0."	8	
+1+3 @ 1' @ 12:12 pm 0/ mone 2.	0 164	32.004552, -107.880790
2' @ 12:20 pm " " 1.	6 108	
4' @ 12:25 pm " " 1.	0 <108	
H 4 @ 1' @ 12:27 pm o/ none -1.9	8 /32	32.004484, -103.081212
2' @ 12:20 00 11 11 0.1		
4'@ 12:35 pm " " 0.	6 4105	
	•	

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 -

nmental & Safety Solutions, Inc.	Soil Profile	
RDU 12	(2RP-4095) Date: Jun 22-23-20	020
lumber:	11755 Latitude: 32.00476033 Longitude: -103.87	07750
bgs)		1133
ogs)	Description	
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Sample Log

Project: RDU 1	2 (2RP-4095)			Date:	2.22.20
Project Number:	11755	Latitude:	32.00476	033 Longitude:	-103.8797759
Sample ID	PID/Odor		Chloride C	ionc.	GPS
AH 5 @ 1:55pm	1 1.6 / mone	2.2	$\rightarrow$	ZZD	
2:00 pm	2' Lo Inone	1.8			32.004674, -103.879735
	3' " "	1.0		168	
2:15pm	41 of none	~].0		<124	
	1' 2.7/mone	1.6		<u> &lt;124</u>	27 (1)1-27
	2' 1.3/ none	1.0		148	37.004593, -107.979937
2:55pm 3	' o Inone	~1.0		<124	
	11 11 11	11 11		2124	
AH7 @ 2:50pm 1	1 of none	~2.4		<124	29 20/10/00
3:00pm 2	n u	1.2			37.004753, -103.880030
3:10pm 3		1.6		<u> &lt; 124</u>	
3: 15 pm 4		1.0		148	
		1.0		<124	
Sample Point = SP #1 @ ## etc			Test Trench = TT #	1@##	Poromalos CD #1 O FL

Floor = FL #1 etc Sidewall = SW #1 etc Test Trench = TT #1 @ ##

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

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

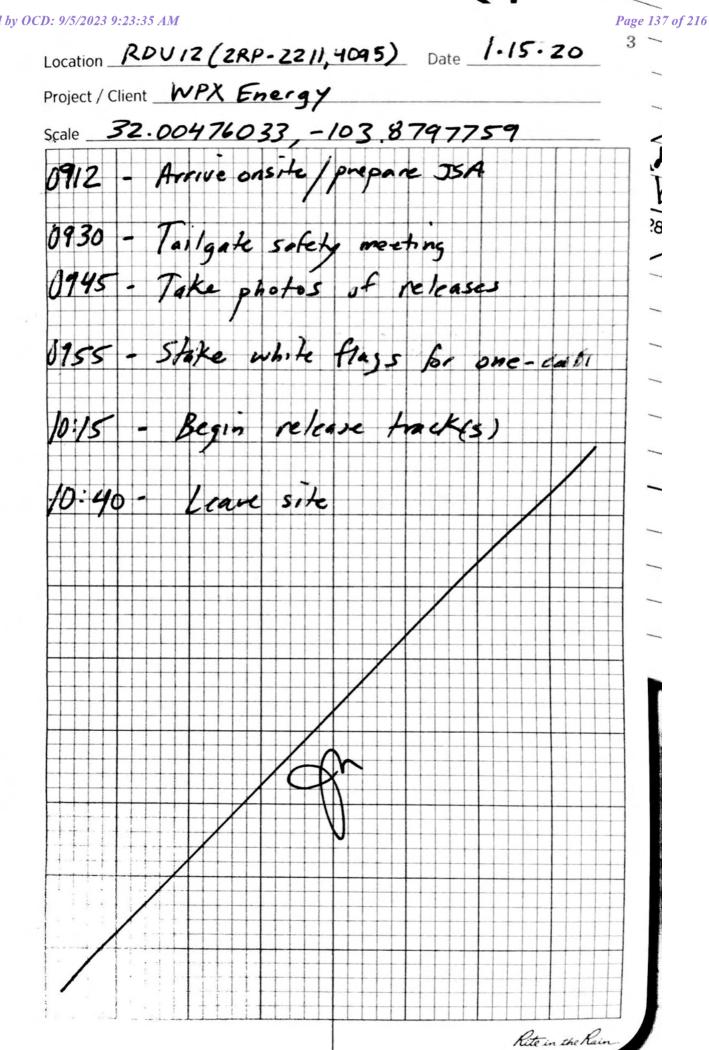
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

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

Received by OCD: 9/5/2023 9:23:35 AM

Environmental & Safety Solution	s, m.			Date:	05.25.5	
ject: RDU	J 12 (2RP-4095)				0.01.01	
ject Number:	11755	Latitude:	32.00476033	Longitude:	-103.879775	59
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Released to Imaging: 9/6/2023 4:19:11 PM

# Scanned with CamScanner

Received by (CD1 2/5/2023 9:23:35 AMDU 12 Location KDU 12 Date 1.22.20 Page 138 of 216 Project / Client 28P-4095 / 28P-2211 (WPX) 32.00476033, -103.8797759 1:20 pm - Onsite w/ Kemp (operator) prepare JSA, conduct tailgate Safety meeting, calibrate Pio 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 confirm 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 oner fonce. 3:05 pm - Begin delineation activities for (-2211) 4:15pm - Finish, load equipment 4:30pm - offsite na

Page 139 of 216 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, borness 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: 9/5/2023 9:23:35 AM 26 Page 140 of 216 Location RDV12 (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: 9/5/2023 9:23:35 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

Walter Hinchman, Laboratory Director



Report Reviewed By:

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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					Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	la 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/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		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	Name:	RDU 12 (2RP-221		11)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project 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/	ORO								
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	t Name:	RDU	12 (2RP-22	.11)					
5315 Buena Vista Dr	5	t Number:	0410	8-0639	Reported:					
Carlsbad NM, 88220	Project Manager: Lynda Laumbach							01/30/20 16:46		
		T	T1 @ 2'							
			79-03 (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	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	t Name:	RDU 12 (2RP-221		.11)				
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project Manager:		Lynd	a Laumbach		01/30/20 16:46			
		Т	T1 @ 4'						
			79-04 (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	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		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)	Project	Name:	RDU	12 (2RP-22	.11)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project Manager:		Lynd	a Laumbach		01/30/20 16:46			
		A	H1 @ 2'						
			79-05 (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	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	ORO								
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	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project Manager:		Lynd	la Laumbach	01/30/20 16:46				
		A	H1 @ 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/OH	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**

			•		•					
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 4	Analyzed: (	01/30/20 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	7.96		"	8.00		99.5	50-150			
LCS (2005010-BS1)				Prepared:	01/27/20 1 4	Analyzed: (	01/28/20 1			
Benzene	5.07	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.15	0.0250		5.00		103	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
o,m-Xylene	10.1	0.0500		10.0		101	70-130			
-Xylene	5.03	0.0250	"	5.00		101	70-130			
Total 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:	01/27/2014	Analyzed: 0	01/28/20 2			
Benzene	4.90	0.0250	mg/kg	5.00	ND	97.9	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.95	0.0250		5.00	ND	99.0	61.4-133			
p,m-Xylene	9.84	0.0500	"	10.0	ND	98.4	63.3-131			
p-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:	01/27/2014	Analyzed: 0	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	
o,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	0.258	20	
p-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 4	Analyzed: 0	1/27/20 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: 0	1/27/20 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 A	Analyzed: 0	1/27/20 1			
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: 0	1/27/20 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										
	D I	Reporting	<b>T</b> T 14	Spike	Source	A/DEC	%REC	DDD	RPD	<b>N</b> 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared: (	01/27/20 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: (	)1/27/20 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	e: P001077-	01	Prepared: (	01/27/20 1 A	Analyzed: 0	1/28/20 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: (	)1/27/20 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)	Pro	ject Name:	R	DU 12 (2RP-	2211)								
5315 Buena Vista Dr	Pro	ject Number:	0-	4108-0639					Report	ed:			
Carlsbad NM, 88220	Pro	ject Manager:	L	Lynda Laumbach					01/30/20 16:46				
Anions by 300.0/9056A - Quality Control													
	Eı	nvirotech 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 l	EPA 300.0/9056A												
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)	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)	Source:	P001076-	01	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-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 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 Custody								. Pa		of
Client:	Report Attention		Star Star	Lat	) Use	Only		TAT	EF	A Progra	im
Project: RPV12 (ZRP-2211)	Report due by:		WO#		J	b Nur	nber	1D 3D	RCRA	CWA	SDWA
Project Manager:	Attention:	P	0010	579		2410	8-01039				
Address:	Address:	_					nd Metho			Sta	
City, State, Zip	City, State, Zip	115	8015				F			NM CO	UT A
Phone:	Phone:	√ 8C	V 80	51	0	0.0	2			V	N
Email: Lynda @ WPX	Email: 10seph @ etcchenv.cun		<sup>g</sup> O <sup>b</sup>	/ 80.	826	e 30	00-			$\land$	
Time Date No Sampled Sampled Matrix Containers Sample ID	Lab Numb	면 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BC			Rem	arks
3:45pm 1.22.20 5 1 TTZ	@ Z'						X				
3:50pm 1.22.26 5 1 TTZ	@ 4' 2						(				
3:15pm 1.22.20 1 TT1	@ z' 3										
3:20pm 1.22.22 / 1 TTI	@ 41 4										
3:20pn 1.22.22 / ( TT / 1:15pm 1.23.20   AH 1	@ 2' 5										
1:30pm 1 V 1 Att	1 @ 41 le						)				
						_					3
			-								
Additional Instructions:								*			
I, (field sampler), attest to the validity and authenticity of this sample. I am aw time of collection is considered fraud and may be grounds for legal action. Sam		tion, date	e or		200		a de la composición d		be received on ic but less than 6 °	Contrast with pressing co	A STATE OF A STATE OF A DOWN
Relinquished by: (Signature) Date Time	Received by: (Signature) Date	·2020	Time	625	S R	eceive	d on ice:	15-2	se Only N		
Relinquished by: (Signature) Date Time	Received by: (Signature) Date		Time		Т			T2 4		<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Othe						oly/pla	stic, <b>ag</b> - a	mber glas	s, v - VOA		
Note: Samples are discarded 30 days after results are reported unle samples is applicable only to those samples received by the laborato							ie client exp	ense. The re	eport for the	analysis of I	he above
Benvirotech	5796 US Highway 64, Farmington, NM 87401						Fx (505) 632-186	and in lines of a company series		- CONTRACTOR OF	nvirotech-Inc
Analytical Laboratory	Three Springs • 65 Mercado Street, Suite 115, Durange	CO 81301			Ph (970)	259-0615	Fr (800) 362-1879	)		laboratory @	nvirotech-ind

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Project Information	Chain of Cust	odv					in the		Pa	ge / of	
Client: NPX	Report Attention			Lat	o Use (	and an other states of the sta		TAT	E	PA Program	see
Project: RPV12 (2RP-2211)	Report due by:		Lab WO		LANSEL BRACK	b Num		1D 3C	RCRA	CWA SDW	5 Per
Project Manager: Lynda Laumbach	Attention:		P001079 04108-0639							2	
Address:	Address:				Ana	ysis an	d Metho	d		State 00	
City, State, Zip	City, State, Zip		015				5			NM CO UT A	
Phone:	Phone:		by 8 by 8	021	10	00.00	ğ				6
Email: Lynda @ WPX	Email: joseph @ etechenv.		ORO DRO	by 8	y 82 5 60	de 3	2	121 12			5/20
- Time <sup>1</sup> Date Matrix No Sampled Sampled Matrix Containers Sample ID		Lab Number	DRO/ORO by 8015 GRO/DRO by 8015	BTEX by 8021	VOC by 8260 Metals 6010	Chloride 300.0	BUDO			Remarks	2023
		1					X				9:23:35
3:45pm 1-22.20 5 1 TT.	2 @ 2'					-					
3:50pm 1.22.26 5 1 TT 2	- @ 4'	2					(				AM
3:15pm 1.22.20 1 TTI	@ Z !	3									-
	Q 41	4					1				
3:20pm 1.22.26 1 TTI	- Ca 7	and and the second									
1:15pm 1.23.20 Att	1 @ 2'	5					1				
1:30 1 Att	1241	le					5				
		and the second									
											Ē,
Additional Instructions:				1 1	11.3			1			
					Com.	nles requiri	ng thermal pro	servation mu	t he received on l	ce the day they are sampled or	
I, (field sampler), attest to the validity and authenticity of this sample. I a time of collection is considered fraud and may be grounds for legal actio		mple location,	date or							°C on subsequent days.	
Relinquished by: (Signature) Date Tim		Date	Time		-			Lab	Jse Only		
m 1.23.20 4	:25pm 2 20	1-23-2	020 /	162	> Re	ceived	d on ice:	(Y	N		
Relinquished by: (Signature) Date Tim		Date	Time		<u>T1</u>		0	<u>T2</u>		<u>T3</u>	
Sample Matrix: S - Soil, Sg - Sludge, A - Aqueous, O - Other Sample Matrix: S - Soil, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O -						and the second s					-
Note: Samples are discarded 30 days after results are reported samples is applicable only to those samples received by the lab	inless other arrangements are made. Hazardous sample ratory with this COC. The liability of the laboraotry is li	imited to the	amount p	aid for	on the re	or at the	client exp	ense. The	report for the	analysis of the above	Pag
Renvirotech											e 1
Analytical Laboratory		the design of the local spectra has advected	1301				(505) 632-186			envirotech-Inc.com laboratory@envirotech-Inc.com	56
Analytical Laboratory Three Springs - 65 Mercado Street, Suite 115, Durango, (0 81301 Ph (970) 259-0615 Fr (800) 362-1879											

Released to Imaging: 9/6/2023 4:19:11 PM

Received by OCD: 9/5/2023 9:23:35 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 Hinkow

Date: 2/28/20

Walter Hinchman, Laboratory Director



Report Reviewed By:

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)	Project Name:			12 (2RP-22					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Manager: Lynda 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)	Project Name:			12 (2RP-22					
5315 Buena Vista Dr	Project Number:			8-0639				Reported:	
Carlsbad NM, 88220	Project Manager: Lynda La			la Laumbach			02/28/20 13:37		
		A	H2 @ 2'						
			91-02 (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		101 %	50	-150	2009030	02/27/20	02/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	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		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)	Projec	t Name:	RDU	12 (2RP-22					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Projec	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/OF	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)	Project Name:			12 (2RP-22					
5315 Buena Vista Dr	Project Number:			8-0639				Reported:	
Carlsbad NM, 88220	Project	t Manager:	Lynd	la Laumbach	L			02/28/20 13:3	37
		A	H3 @ 2'						
			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/OF	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		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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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-22					
5315 Buena Vista Dr	Project	Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Project	Project Manager:						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/	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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	Analytical Laboratory

WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-22					
5315 Buena Vista Dr	Project Number:		0410	8-0639	Reported:				
Carlsbad NM, 88220	Project	Manager:	Lynd	la Laumbach	aumbach				37
		A	H4 @ 2'						
			91-06 (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		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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	Analytical Laboratory

WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-22	211)				
5315 Buena Vista Dr	Project	Number:	0410	04108-0639					
Carlsbad NM, 88220	Project	Manager:	Lynd	la Laumbach	l			02/28/20 13:	37
		A	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	)/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		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 /	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 /	Analyzed: (	02/27/20 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: (	02/27/20 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			
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: (	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	
o-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-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

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

## Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009031 - Anion Extraction EPA 300	).0/9056A									
Blank (2009031-BLK1)				Prepared: (	)2/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: (	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)	Sour	ce: P002090-	01	Prepared: (	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)	Sour	e: P002090-	01	Prepared: (	02/27/20 0 A	Analyzed: 0	2/27/20 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	Custod	У
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lient: UPX	Poport Attention						0.1			1			PA Program       CWA     SI       State
lient: UPX roject: KDU 12 (2KP-2211)	Report Attention Report due by:						Only			T/		E	PA Program
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ity, State, Zip	City, State, Zip								Netho	a T			State
hone:	Phone:		8015	8015				Š					NM CO UT
mail: Lynda @ WPX	Email: joseph@ etechenv.	(0 m	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	ن ان	5	×			
Time Date No.	Linan. Josephile ercentered	Lab	ORC	DRO	by 8	oy 82	de 3	100	N.	5			
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mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Туре	: <b>g -</b> gla	ass, p	- poly	/plast	c. ag -	ambe	r glass	, v - V	OA	
ote: Samples are discarded 30 days after results are reported unless ot	her arrangements are made. Hazardous samples will be	e returned to cli	ent or i	dispose	d of at	the clie	nt exper	ise. The	e report	for the	analysis	of the abo	ve samples is appli
ly to those samples received by the laboratory with this COC. The liab	pility of the laboratory is limited to the amount paid for	on the report.		-							5		
Analytical Laboratory											1	te ha nea	

Received by OCD: 9/5/2023 9:23:35 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)

Report Reviewed By:

Walter Hinkon

Date: 1/30/20

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:	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	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:							
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande:	01/30/20 13:4	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/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		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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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639	Reported:				
Carlsbad NM, 88220	Project	Manager:	01/30/20 13:	41					
		T	F1 @ 12'	1					
			76-02 (So						
		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/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		90.7 %	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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WPX (Carlsbad)	Project	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	0410	<b>Reported:</b>	Reported:				
Carlsbad NM, 88220	Project	Manager:	Josep	01/30/20 13:	41				
		Т	T2 @ 2'						
			76-03 (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	01/28/20	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/	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		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	95)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Project	Project Manager: Joseph Hernandez							
		Т	T2 @ 4'						
			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 - DRC	)/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	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	0410	04108-0639					Reported:	
Carlsbad NM, 88220	Project	Manager:	nager: Joseph Hernandez					01/30/20 13:	41
		Т	T3 @ 2'						
			76-05 (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		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-	-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-4095)						
5315 Buena Vista Dr	Project	0410	04108-0639					Reported:	
Carlsbad NM, 88220	Project Manager: Joseph Hernandez						01/30/20 13:	01/30/20 13:41	
		Т	T3 @ 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	Project Name:		RDU 12 (2RP-4095)						
5315 Buena Vista Dr	Project	0410	04108-0639					Reported:		
Carlsbad NM, 88220	Project Manager: Joseph Hernande						Ζ			
		A	H 1 @ 2'	1						
			76-07 (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		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	/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		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-40					
5315 Buena Vista Dr	Project	Number:	0410	8-0639		<b>Reported:</b>			
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande	Z			01/30/20 13:	41
		A	H 1 @ 4'						
			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/0	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		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)	Projec	t Name:	RDU	12 (2RP-40					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				<b>Reported:</b>	
Carlsbad NM, 88220	Projec	t Manager:	Josep	oh Hernande	Z			01/30/20 13:	41
		A	H 2 @ 2'	,					
			76-09 (So						
		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/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		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)	Projec	t Name:	RDU	12 (2RP-40					
5315 Buena Vista Dr	Projec	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Josep	h Hernande	Z			01/30/20 13:4	41
		A	H 2 @ 4'	1					
		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/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		90.5 %	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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WPX (Carlsbad)	Project	t Name:	RDU	12 (2RP-40					
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	t Manager:	Josep	h Hernande	Z			01/30/20 13:4	41
		A	H 3 @ 2'						
			76-11 (Sa						
		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/OI	RO								
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	RDU	12 (2RP-40						
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	t Manager:	Josep	h Hernande	Z			01/30/20 13:	41
		A	H 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/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		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					
5315 Buena Vista Dr	Project	Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande	Z			01/30/20 13:4	41
		A	H 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/O	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		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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P	envirotech
	Analytical Laboratory

WPX (Carlsbad)	Project	t Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	04108	8-0639				Reported:	
Carlsbad NM, 88220	Project	Manager:	Josep	h Hernande	Z			01/30/20 13:	41
		A	H 4 @ 4'						
			76-14 (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		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/0	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		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

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0.500

97.2

70-130

0.486

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 Labadmin@envirotech-inc.com

Surrogate: Bromofluorobenzene

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 mg/kg 500 88.7 38-132 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 Matrix Spike Dup (2005012-MSD1) Source: P001075-03 Prepared: 01/27/20 1 Analyzed: 01/28/20 1

Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.8	38-132	3.50	20	
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 Source: P001076-01 Prepared & Analyzed: 01/28/20 1 Matrix Spike Dup (2005016-MSD2) Gasoline Range Organics (C6-C10) 44.6 20.0 mg/kg 50.0 ND 89.2 70-130 2.61 20 0.501 Surrogate: 1,2-Dichloroethane-d4 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	ect Name:	R	DU 12 (2RP-	4095)							
5315 Buena Vista Dr	Proje	ect Number:	0	4108-0639		Reported:						
Carlsbad NM, 88220	Proje	ect Manager:	Jo	Joseph Hernandez					01/30/20 13:41			
	Anio	ns by 300.(	0/9056A	- Quality	Control							
Envirotech Analytical Laboratory												
		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						

Mailly Spike Dup (2005017-MSD1)	Source.	1001070-01	i repareu o	c Anaryzeu.	01/20/201	L			
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	stody	1					-		. Pa	ge I	of	
Client: WPX	Report Attention	<b>(</b>	1 ALCON	0.986		b Use			TAT		A Progra	
Project: RDU 12 (289-4095)	Report due by: Standard T/			WO			ob Nu		1D 3D	RCRA	CWA	SDWA
Project Manager: Joseph Hernandez	Attention:		Analysis and Method State						2			
Address: P. o Box 62228	Address:			1	1.5.1	An	alysis	and Metho	od	<del></del>	Sta	C
<u>City, State, Zip</u> Phone:	City, State, Zip Phone:		3015	3015				Ve			NM CO	
Email: Lyndar (2 wpX	March As		by 8	by 8	021	60	10	DOC			X	4
	Email: Juseph@ etechem	Lab	ORO	DRO	by 8	oy 82	ls 60	2			$\bigwedge$	
Sampled Sampled Matrix Containers Sample ID		Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010 Chloride 300.0	BG,			Rem	narks
1:45pm 1.22.20 5 1 TT1	@ Z'	A						X				
2:20pm 1.22.20 ( 1 TT 1	@ 12'	2					1	1	10			
10:45 am 1.23.20 1 1 TZ	@ z'	3										
10:50 am 1.23.20 y 1 TTZ	@ 4'	4	5									
11:15an 1 TT3	@ 2'	5										
11:20 an V / / TT 3	Q 4'	6										
1:00 pm	@ 2'	7										
12:05pm   AH1	<u>@</u> 4'	8										E.
12:10 pm / AHZ	@ Z'	9										
R: 15 pm / 1 1 AHZ	@ 4'	10						k				
Additional Instructions:	_											
I, (field sampler), attest to the validity and authenticity of this sample. I am time of collection is considered fraud and may be grounds for legal action.	· · · · · · · · · · · · · · · · · · ·	sample locatior	n, date d	or				uiring thermal pre ked in ice at an av				
Relinquished by: (Signature) Date Time 1.23.26 4:1	Received by (Signature)	Date 1-23-2	2070	Time	1610	O R	leceiv	ed on ice:		se Only N		
Refinquished by: (Signature) Date Time	Received by: (Signature)	Date	D	Time		Т	1	emp °C	<u>T2</u> 4		<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Ot	her 0	Containe	r Typ					stic, ag - a	mber glass	s, v - VOA		
Note: Samples are discarded 30 days after results are reported un samples is applicable only to those samples received by the laboration of the samples received by the samples rece	less other arrangements are made. Hazardous sam story with this COC. The liability of the laboraotry is	ples will be re	eturne	d to cli	ient or	dispose	d of at t				analysis of t	he above
Benvirotech	5796 US Highway 64, Farmington, NM 83					Ph (505)	632-0615	Fx (505) 632-1865	5		e	nvirotech-inc.com
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.com

Released to Imaging: 9/6/2023 4:19:11 PM

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Client:	Chain of Custo Report Attention	ody		La	ib Use	Only		TAT	Pa EF	ge C PA Progra	of
Project:	Report due by: Standard The	AT	ab WC			lob Nur	nber	1D 3D	RCRA	CWA	SDWA
Project Manager:	Attention:		Р								
Address:	Address:				Ar	nalysis a	nd Metho	od		Sta	ate
City, State, Zip	City, State, Zip		15 15				1			NM CO	ate g
Phone:	Phone:		v 80			0.0	JE			V	
Email: Lyndar WPX	Email: 10seph @ etechenv	.com	d O b d O b	802	826	5010 2 30(	6		12	$\wedge$	-
Time Date Matrix No Containers Sampled ID	, , , , , , , , , , , , , , , , , , ,	Lab Number	DRO/ORO by 8015 GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010 Chloride 300.0	BGDO			Rem	narks
12:20pm 1.2320 5 1 AH 3	@ 2'	11					X				
12:25m 1 5 1 Att 3	@ 4'	12		÷			1		1		
12:50m 5 ( AH 4	@ 2'	13									
12:55 V 5 1 Att 4	Q 4'	14					V	1			
						8					
					d.						
											×-
Additional Instructions:											
I, (field sampler), attest to the validity and authenticity of this sample. I am a time of collection is considered fraud and may be grounds for legal action. So		ple location, o	date or				-	eservation must l vg temp above 0			54
	opm met 1	<sup>0ate</sup>  -23-20	7im 20	e 1613	2	Receive	d on ice		se Only N		
Refinquished by: (Signature) Date Time 124.2020 19	15 Daina Toper 1	1 24/2 0	, IC	1.30	-	T <u>1</u> AVG Te	mp °C	<u>T2</u>		<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Oth			Type: g	- glas	s, <b>p</b> - p			mber glas			II.
Note: Samples are discarded 30 days after results are reported unle samples is applicable only to those samples received by the laborat							e client exp	ense. The re	port for the	analysis of t	he above
Benvirotech	5796 US Highway 64, Farmington, NM 87401						'x (505) 632-186			COLUMN THE REAL PROPERTY.	envitotech-inc.con
Analytical Laboratory	Three Springs - 65 Mercado Street, Suite 115,	, Durango, CO 813	101		Ph (970)	) 259-0615	r (800) 362-187	9		laboratory@e	envirotech-inc.com



# **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 Hinkown

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-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)	Projec	t Name:	RDU 12 (2RP-4095)							
5315 Buena Vista Dr	Projec	t Number:	04108-0639					Reported:	Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	a Laumbach				02/28/20 13:	35	
		A	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/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		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)	Project	t Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	t Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	t Manager:	Lynd	la Laumbach	l			02/28/20 13:	35
		A	H5 @ 4'						
			90-02 (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		104 %	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		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)	Project	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	04108	8-0639				Reported:	
Carlsbad NM, 88220	Project	Manager:	Lynda	a Laumbach				02/28/20 13:	35
		A	H6 @ 2'						
			90-03 (So	lid)					
		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	/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		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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WPX (Carlsbad)	Proje	ct Name:	RDU	J 12 (2RP-40	95)				
5315 Buena Vista Dr	Proje	ct Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Proje	ct Manager:	Lynd	la Laumbach				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	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		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				Reported:	
Carlsbad NM, 88220	Projec	t Manager:	Lynd	la Laumbach	L			02/28/20 13:	35
		A	H7 @ 2'						
			90-05 (So						
		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)	Project	Name:	RDU	12 (2RP-40	95)				
5315 Buena Vista Dr	Project	Number:	0410	8-0639				Reported:	
Carlsbad NM, 88220	Project	Manager:	Lynd	a Laumbach				02/28/20 13:	35
		A	H7 @ 4'						
			90-06 (Sa	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/	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		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: (	)2/27/20 0 A	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 A	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 A	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 A	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

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	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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	Anions by 300.0/90	956A - Quality Control	
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	

## **Envirotech Analytical Laboratory**

			-		-					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009031 - Anion Extraction EPA 3(	)0.0/9056A									
Blank (2009031-BLK1)				Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: 0	02/27/20 0 A	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: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)	Sourc	e: P002090-	01	Prepared: 0	02/27/20 0 A	Analyzed: 0	2/27/20 1			

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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24 Hour Emergency Response Phone (800) 362-1879		Labadmin@envirotech-inc.com



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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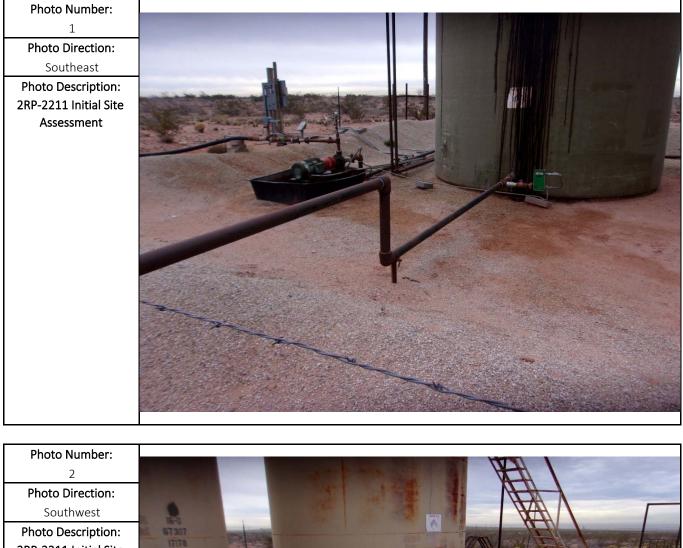
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Project Information	Chain of C	lustody											Page of
Client: UPX Project: KDV 12. (2RP-4095)	Report Attention						e Only			1111	TAT		EPA Program
Project. 100 12 (200-9095)	Report due by:	,		WO#			Jop N			1D	3D	RCRA	CWA SD
Project Manager:	Attention:		PD	020	290		04108	3-04	139				
Address:	Address:	÷					Analysi	is and	Meth	noď			State
City, State, Zip	City, State, Zip		15	15				W					NM CO UT
Phone:	Phone:		V 80	/ 80			0.	2					V
Email: Lynda @ WPX	Email: joseph@etechenu	1.com	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC-NM	3	A A			
Time Date No Council ID	J   C	Lab	/OR	/DR	β	by 8	ride	9	TCEQ 1005	BGDOC - TX			
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ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Type:	g - gla	ass, p	<b>o</b> - po	ly/plas	tic, ag	g - am	ber gla	ss, v -	VOA	
ote: Samples are discarded 30 days after results are reported unless nly to those samples received by the laboratory with this COC. The	other arrangements are made. Hazardous samples will b liability of the laboratory is limited to the amount paid for	pe returned to cli r on the report.	ent or d	lispose	d of at	the cli	ent expe	ense. T	he repo	ort for th	ne analys	is of the ab	ove samples is applical
-													
envirotech	5795 US Highway 64, Farmington, NM 87401				Ph	(505) 6	532-1881	Fx (50	5) 632-1	865		env	virotech-inc.com

# Appendix D Photographic Log







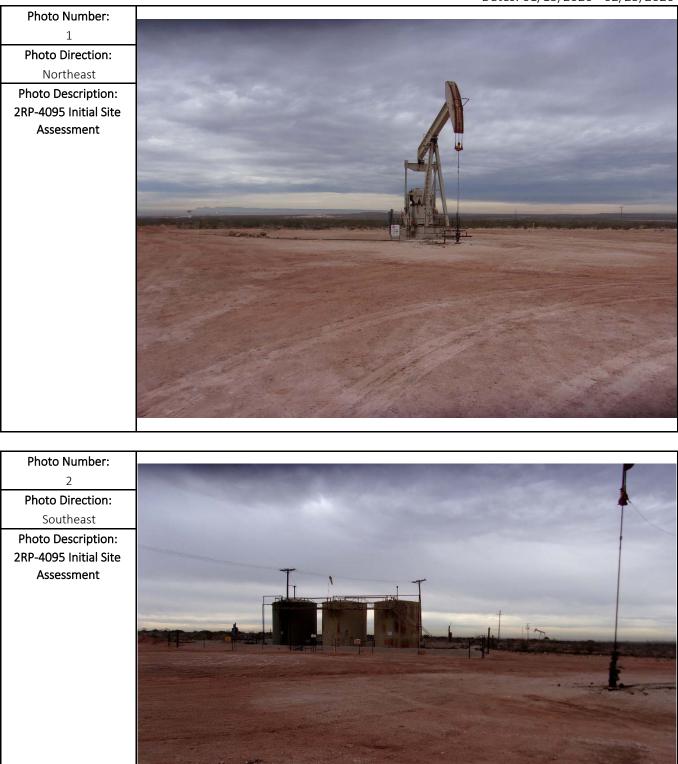




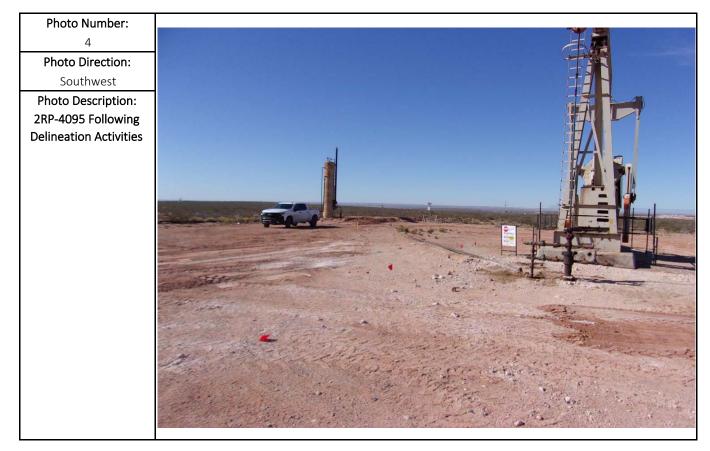


## *Received by OCD: 9/5/2023 9:23:35 AM* Site Name: RDU 12

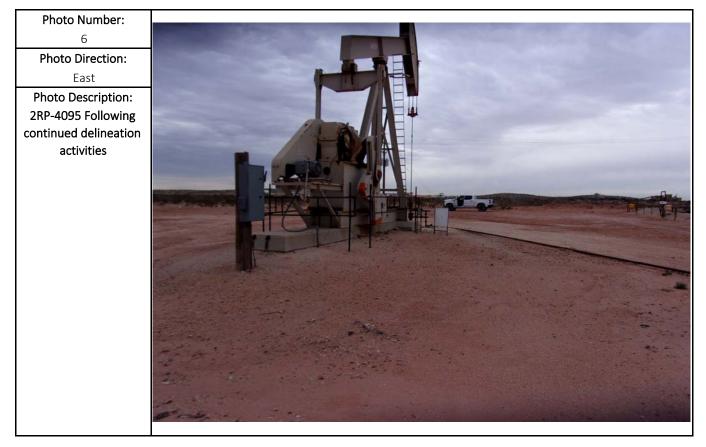
## Photographic Log











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

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

District III

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

CONDITIONS

Operator: 0	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	261729
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	9/6/2023

Action 261729

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