



# CLOSURE REQUEST ADDENDUM

**RDX 16 #009**

**Eddy County, New Mexico**

**Incident Number**

**nAPP2316445941**

**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 Addendum (CRA) that provides additional data associated with a previously submitted Closure Request Report (CRR) to document supplemental soil sampling events at the RDX 16 #009 (Site). Based on completed remedial actions, field observations and review of the laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) for Incident Number nAPP2316445941 and to postpone final remediation until the Site undergoes plugging and abandonment (P&A) activities.

A CRR was previously denied on November 11, 2023, by the New Mexico Oil Conservation Division (NMOCD) due to the following reason(s):

- "The closure report includes an inadequate number of floor samples. Please collect confirmation samples, representing no more than 200 ft<sup>2</sup>. When equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation."
- "The OCD needs to know if the release went in, around, or under equipment/tanks. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need."

## SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit F, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0453377°, -103.8900681°) and is associated with oil and gas exploration and production operations on State Land (**Figure 1 in Appendix A**).

On June 8, 2023, failure of the wellhead packing caused the release of approximately 3 barrels (bbls) of crude oil and 50 bbls of produced water onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 1 bbl of crude oil. No produced water was successfully recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on June 13, 2023, and was subsequently assigned Incident Number nAPP2316445941. **Figure 2 in Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern (AOC).

WPX retained a contractor to excavate immediate soil impacts from the surface of the AOC via visual observation. Impacted soil was hauled to a licensed and approved landfill facility under approved WPX waste manifests. The excavation was then backfilled with clean, locally sourced soil and recontoured to match pre-existing conditions. Following initial correction action efforts, Etech conducted site assessment and delineation activities to characterize the subject release by verifying the presence or absence of impacted soil within and around the AOC. Three potholes (PH01 through PH03) were advanced within the AOC and four potholes (PH04 through PH09) were advanced around the AOC to confirm horizontal delineation.

Due to the large extent of the AOC, NMOCD approved a Sampling Variance Request (SVR) for 5-point composite confirmation soil samples to represent a maximum of 400 square feet per soil sample collected from within the AOC floor and 200 square feet for lateral/edge confirmation soil samples on February 13, 2024. The SVR and approved email receipt is provided in **Appendix B**.

## 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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring (C-04068-POD1) that was drilled by Atkins Engineering Associates, Inc., located approximately 0.21 miles west of the Site. The soil boring location may be referenced on **Figure 1A** in **Appendix A**. Using a truck mounted drill rig equipped with a hollow stem auger, the soil boring was advanced to a total depth of 125 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. The boring log and plugging records are provided in **Appendix C**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** 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
TPH-Gasoline Range Organics (GRO) + TPH-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.

## **CONFIRMATION SOIL SAMPLING ACTIVITIES**

On January 17, 2024, Etech collected 5-point composite confirmation soil samples at an approved sampling frequency of 400 square feet from the areas associated with the AOC floor (labeled as FS) and 200 square feet from the excavation AOC edges (labeled as SW). Soil samples were collected, and field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The composite confirmation soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The confirmation soil samples were then placed into lab provided pre-cleaned glass jars, packed with minimal void spaces, labeled, and immediately placed on ice. The confirmation soil samples were transported under strict chain-of-custody

procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of COCs. The location of the confirmation soil samples are shown in **Figure 3** in **Appendix A**. Photographic documentation of confirmation soil sampling excavation activities is included in **Appendix D**.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation soil samples indicated all analyzed COCs were below the Site Closure Criteria. Additionally, concentrations of COCs for edge soil samples, specifically SW01 through SW04, provide horizontal delineation of the AOC. 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 laboratory analytical results for confirmation soil samples associated with the inadvertent release, immediate residual soil impacts were delineated, excavated, and removed from the AOC, per the Site Closure Criteria.

Due to the active production status of the Site, WPX will reassess the AOC upon completion of P&A activities and subsequently remove identified residual impacts exceeding the reclamation standards. Since the depth to groundwater at the Site is estimated to be greater than 100 feet bgs and there are no sensitive receptors within the established buffers in NMAC 19.15.29.12, WPX believes leaving soil with chloride concentrations exceeding the reclamation standard but below the Site Closure Criteria is equally protective of human health, the environment, and groundwater. WPX estimates 742 cubic yards of soil to be removed during reclamation activities to achieve complete Site restoration but is subject to change. A Reclamation Report will be submitted upon completion of final remediation activities. The proposed Future Restoration Area is depicted on **Figure 4** in **Appendix A**.

As such, NFA appears warranted at this time and the CRA associated with Incident Number nAPP2316445941 should be respectfully considered for Closure by the NMOCD. If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or [joseph@etechenv.com](mailto:joseph@etechenv.com) or Erick Herrera at (432) 305-6416 or [erick@etechenv.com](mailto:erick@etechenv.com). **Appendix G** provides correspondence email notification receipts associated with the subject release. The summary of previous Site activities, and laboratory results may be referenced in the previously submitted CRR in **Appendix H**.

Sincerely,  
Etech Environmental and Safety Solutions, Inc.



Erick Herrera  
Staff Geologist



Joseph S. Hernandez  
Senior Managing Geologist

cc: Jim Raley, WPX  
New Mexico Oil Conservation Division  
State Land Office

**Appendices:**

**Appendix A:** Figure 1: Site Map

Figure 1A: Site Characterization Map – Groundwater

Figure 2B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2: Area of Concern

Figure 3: Confirmation Soil Sample Locations

Figure 4: Future Restoration Area

**Appendix B:** Approved Sampling Variance Request

**Appendix C:** Referenced Well Record

**Appendix D:** Photographic Log

**Appendix E:** Tables

**Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation

**Appendix G:** NMOCD Notifications

**Appendix H:** Previously Submitted Closure Request Report

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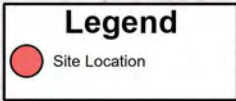
# APPENDIX A

## Figures

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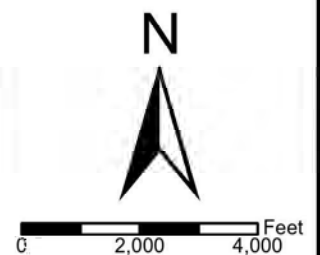
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



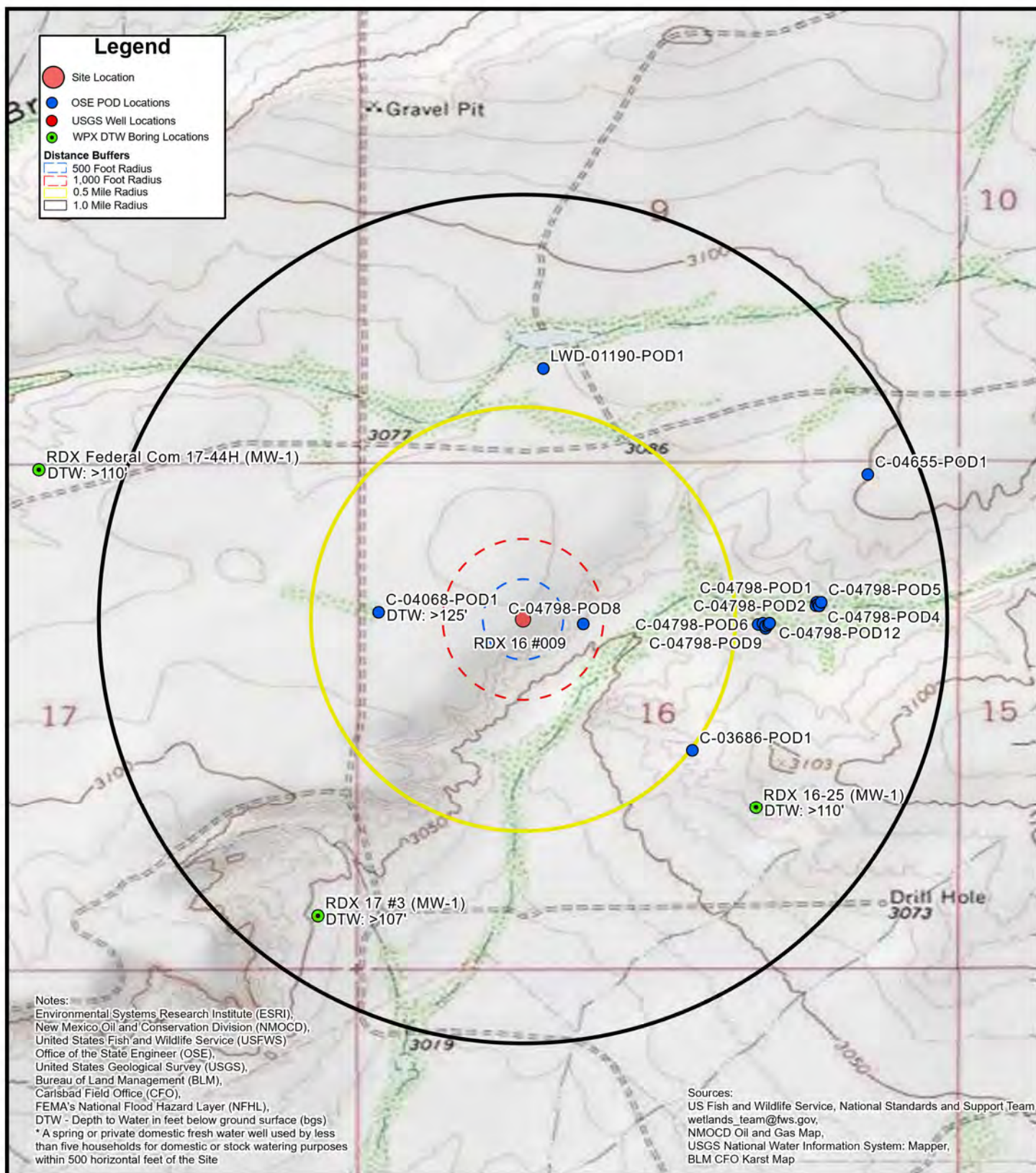


### Site Location Map

eTECH







### FIGURE 1A Site Characterization Map Groundwater

WPX ENERGY PERMIAN, LLC  
 RDX 16 #009  
 Unit F Sec 16 T26S R30E  
 Eddy County, New Mexico





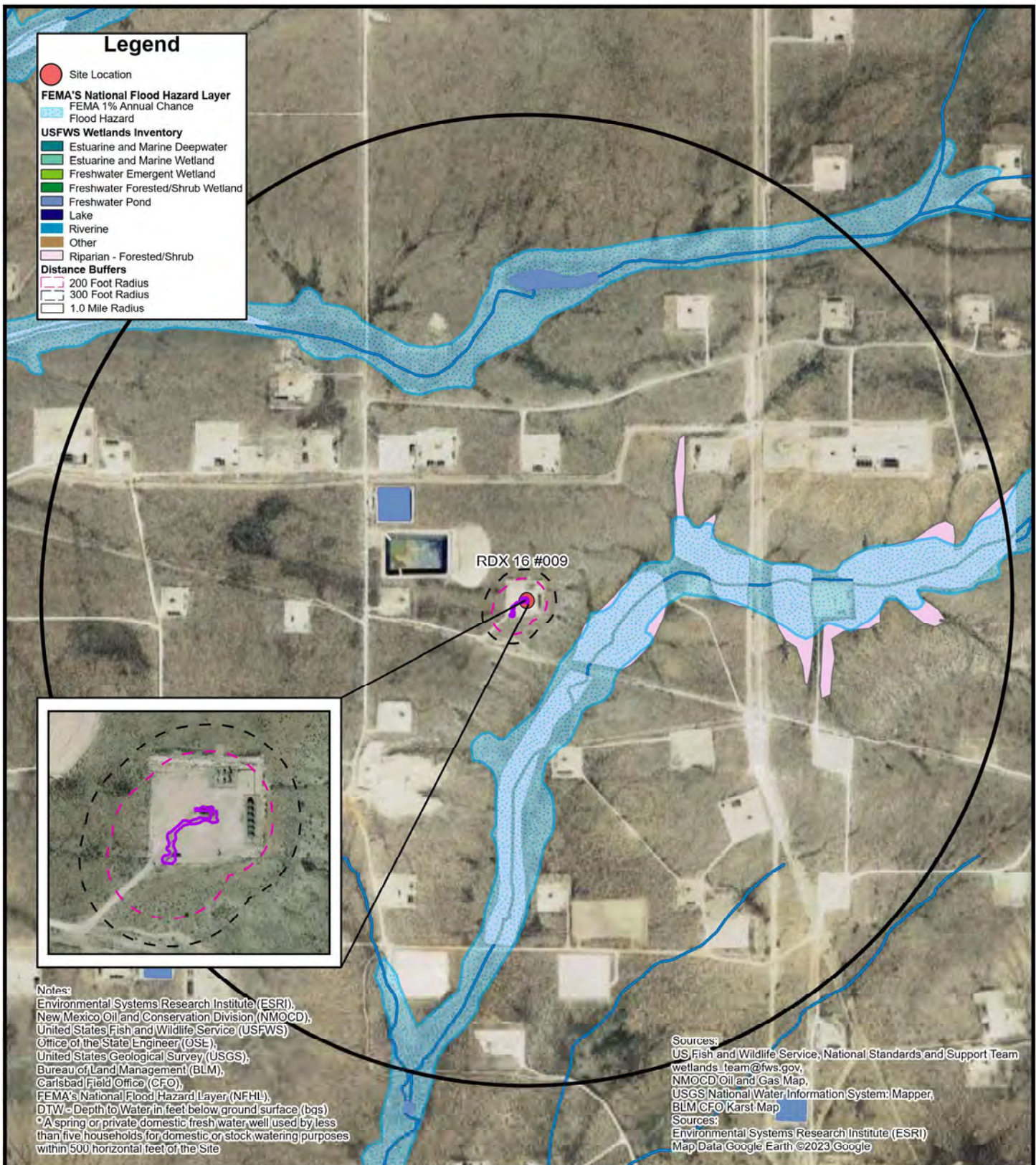
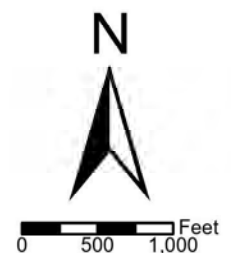


FIGURE 1B  
**Site Characterization Map  
 Surficial Receptors**

WPX ENERGY PERMIAN, LLC  
 RDX 16 #009  
 Unit F Sec 16 T26S R30E  
 Eddy County, New Mexico

**eTECH**





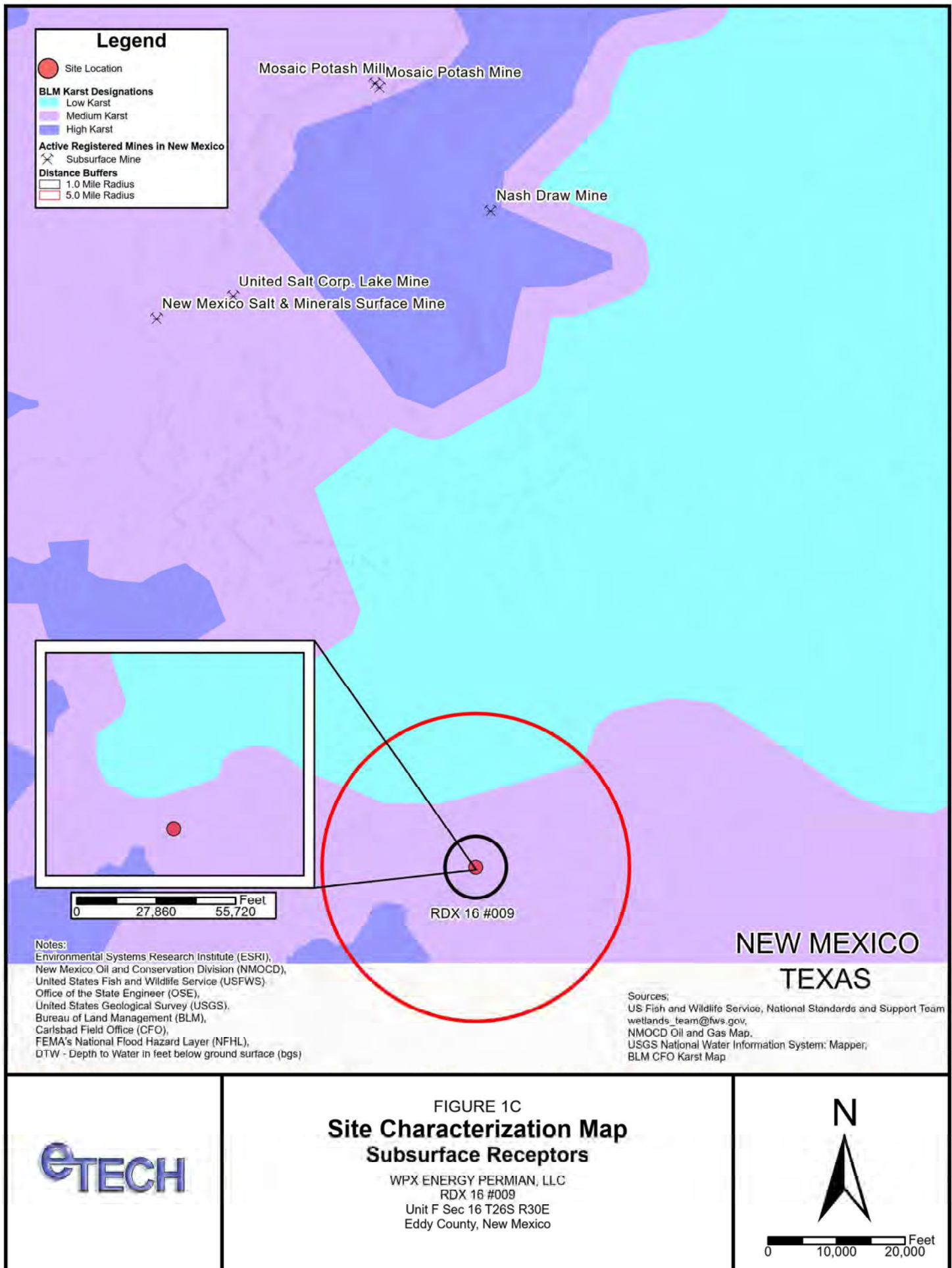






FIGURE 2

**Area of Concern**

WPX ENERGY PERMIAN, LLC  
RDX Federal 16 #009  
Unit F Sec 16 T26S R30E  
Eddy County, New Mexico



0 35 70 Feet

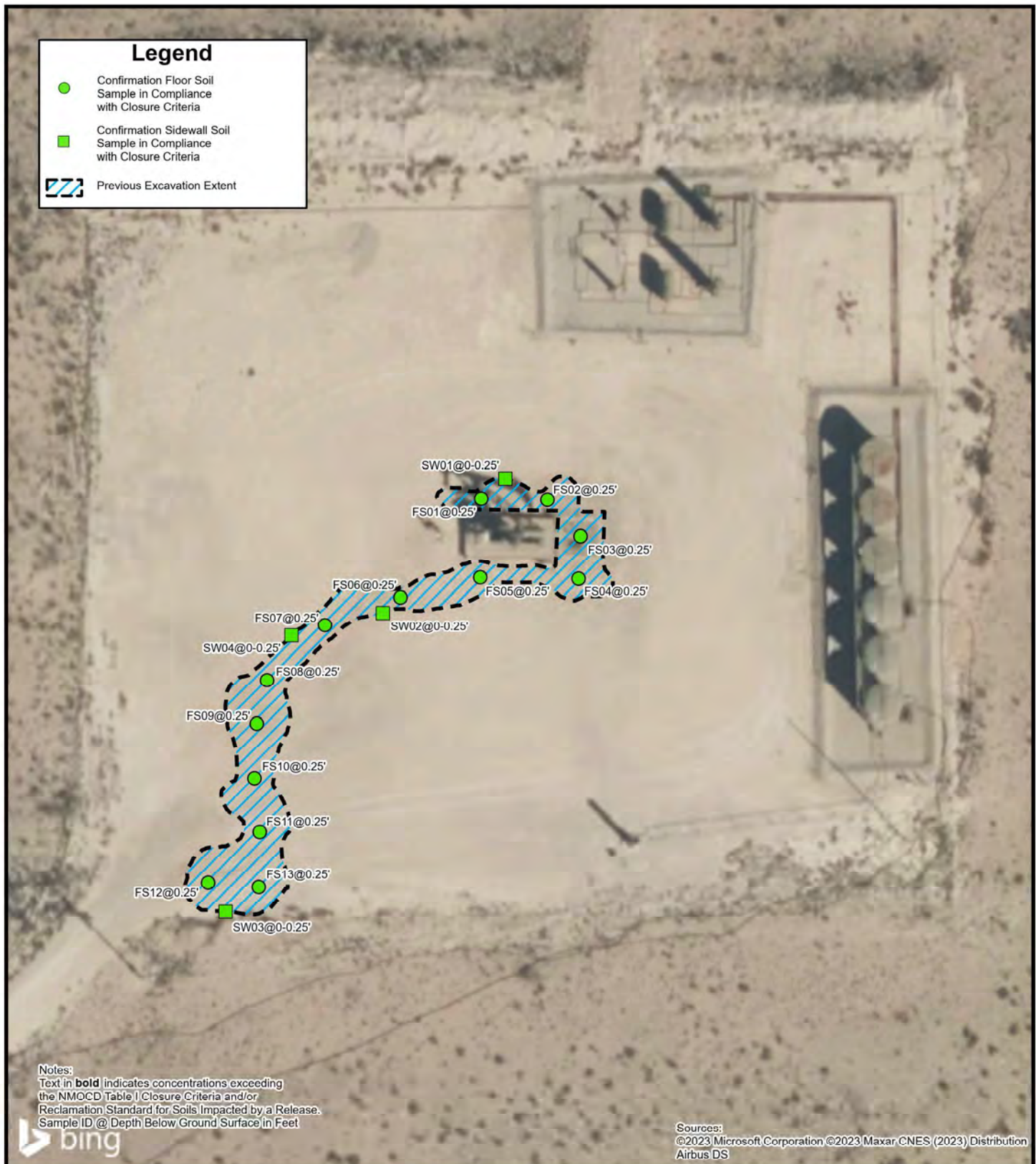


FIGURE 3

## Confirmation Soil Sample Locations

WPX ENERGY PERMIAN, LLC  
RDX 16 #009  
Unit F Sec 16 T26S R30E  
Eddy County, New Mexico

eTECH

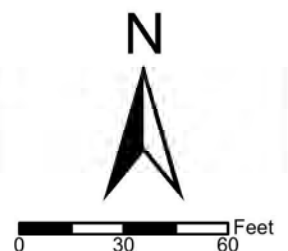




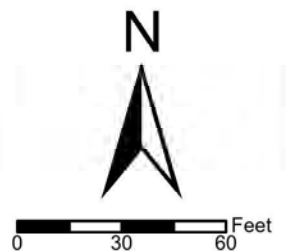


FIGURE 4

**Future Restoration Area**

WPX ENERGY PERMIAN, LLC  
RDX 16 #009  
Unit F Sec 16 T26S R30E  
Eddy County, New Mexico

**eTECH**



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## APPENDIX B

### Approved Sampling Variance Request

**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**

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

**District IV**

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

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

QUESTIONS

Action 302172

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302172
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2316445941
Incident Name	NAPP2316445941 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/08/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,008
What is the estimated number of samples that will be gathered	43
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno with any questions at (432)305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush and Pipeline Rd, go east on Pipeline Rd. for approximately 3.32 mi, turn right for 1.34 mi; turn left for 0.27 mi. to Site Location (32.0453, -103.8901).

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 302172

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302172
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/10/2024

**Erick Herrera**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Tuesday, January 16, 2024 10:50 AM  
**To:** Gilbert Moreno  
**Cc:** Raley, Jim; Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD  
**Subject:** (Variance Approval) WPX Site Sampling Activity

Gilbert,

The variance is approved for collecting 5-point composite area floor samples to represent each 400 ft<sup>2</sup> area. Sidewall/Edge confirmation samples will still need to be collected every 200 ft<sup>2</sup> to define the edge of the release area. Please include this e-mail correspondence in the remediation and/or closure report.

Regards,

**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](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



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**From:** Gilbert Moreno <gilbert@etechnv.com>  
**Sent:** Friday, January 12, 2024 4:46 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Raley, Jim <Jim.Raley@dvn.com>; Devon-Team <Devon-Team@etechnv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Subject:** [EXTERNAL] RE: WPX Site Sampling Activity

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

Robert,

We have prepared a cover letter with the sampling variance information and maps for your review.

Thanks,

**Gilbert Moreno**

Field Supervisor-Geologist



Work: (432) 305-6414

Cell: (832) 541-7719

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>

**Sent:** Friday, January 12, 2024 8:38 AM

**To:** Gilbert Moreno <[gilbert@etechnv.com](mailto:gilbert@etechnv.com)>

**Cc:** Raley, Jim <[Jim.Raley@dmv.com](mailto:Jim.Raley@dmv.com)>; Devon-Team <[Devon-Team@etechnv.com](mailto:Devon-Team@etechnv.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>

**Subject:** WPX Site Sampling Activity

Gilbert,

We would need a proposed sampling grid map and sampling statistics showing equal or better protection of fresh water, public health and the environment. The demonstration should show that depth to groundwater and karst are not an issue. Also, that it's not within a 100-year floodplain or within 300 feet of a wetland.

**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](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>




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**From:** Gilbert Moreno <[gilbert@etechnv.com](mailto:gilbert@etechnv.com)>

**Sent:** Thursday, January 11, 2024 12:51 PM

**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>

**Cc:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Raley, Jim <[Jim.Raley@dmv.com](mailto:Jim.Raley@dmv.com)>; Devon-Team <[Devon-Team@etechnv.com](mailto:Devon-Team@etechnv.com)>

**Subject:** [EXTERNAL] WPX Site Sampling Activity

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

Robert,

Due to the large Area of concern (5,008 square feet) at the RDX 16 #009 (**nAPP2316445941**), WPX requests a sampling variance of which confirmation soil samples represent a maximum frequency of 400 square feet per soil sample. Due to the shallow depth of the excavation, soil from the sidewalls are anticipated to be included in each representative composite floor soil sample. As such, 13 samples are anticipated to be collected from the excavation's floor compared to 25 samples, utilizing a frequency of 200 square feet. A sampling notification (C-141N) for this incident was submitted for next week and will include soil samples pending approval for the requested sampling frequency increase.



Please let me know if you have any questions or require any additional information.

Thanks,

**Gilbert Moreno**

Field Supervisor-Geologist



Work: (432) 305-6414

Cell: (832) 541-7719

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## APPENDIX C

### Referenced Well Records



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
TULSA, OKLAHOMA

2017 MAY 17 PM 1:58

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-4068 POD1				OSE FILE NUMBER(S) C-4068			
	WELL OWNER NAME(S) RKI Exploration and Production, LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3500 One Williams Center MD 35,				CITY STATE ZIP Tulsa OK 74172			
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LATITUDE	32	2				43.95
	LONGITUDE	103	53	39.23	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW/4SW/4NW/4 Section 16, Township 26S, Range 30 E, N.M.P.M.								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 5/11/2017		DRILLING ENDED 5/12/2017		DEPTH OF COMPLETED WELL (FT) n/a		BORE HOLE DEPTH (FT) 125	
	DEPTH WATER FIRST ENCOUNTERED (FT) none encountered		STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a					
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)							
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: hollow stem auger with air rotary							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	125	±6.625	n/a	n/a	n/a	n/a	n/a
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	n/a	n/a	n/a	n/a	n/a	n/a		

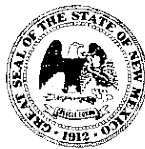
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-4068	POD NUMBER	1	TRN NUMBER	606777
LOCATION	26S-30E-16-1-3-1			EXPL	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	C-4068	POD NUMBER	1
LOCATION	216S 30E 112.103	TRN NUMBER	606777
		EXP1	PAGE 2 OF 2

Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 606777  
File Nbr: C 04068  
Well File Nbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE  
RKI EXPLORATION AND PRODUCTION LLC  
3500 ONE WILLIAMS CENTER MD 35  
TULSA, OK 74172

Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Dunaway".

Deborah Dunaway  
(575) 622-6521

drywell

---

## APPENDIX D

### Photographic Log



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

Incident Number nAPP2316445941

**Photograph 1****Date: 01/17/2024**

Description: Southeast view of confirmation excavation soil sampling activities, near FS04.

**Photograph 2****Date: 01/17/2024**

Description: Southwest view of confirmation soil sampling activities, near FS04.

**Photograph 3****Date: 01/17/2024**

Description: Northwest view of confirmation soil sampling activities, near FS09

**Photograph 4****Date: 01/17/2024**

Description: Southwest view of confirmation soil sampling activities, near FS09.

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# APPENDIX E

## Table





Table 1  
SOIL SAMPLE ANALYTICAL RESULTS  
WPX Energy Permian, LLC  
RDX 16 #009  
Eddy County, New Mexico

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 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples - Incident Number nAPP2316445941										
FS01	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	11,800
FS02	01/17/2024	0.25	<0.0250	0.0643	<20.0	41.2	<50.0	41.2	41.2	9,060
FS03	01/17/2024	0.25	<0.0250	<0.0500	<20.0	357	460.0	357	817	8,370
FS04	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,990
FS05	01/17/2024	0.25	<0.0250	<0.0500	<20.0	378	494	378	872	7,740
FS06	01/17/2024	0.25	<0.0250	0.0375	<20.0	230	296	230	526	909
FS07	01/17/2024	0.25	<0.0250	0.0283	<20.0	99.3	133	99.3	232	8,280
FS08	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,590
FS09	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,130
FS10	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	782
FS11	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
FS12	01/17/2024	0.25	<0.0250	0.0719	<20.0	<25.0	<50.0	<25.0	<50.0	2,440
FS13	01/17/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,170
SW01	01/17/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	343
SW02	01/17/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	228
SW03	01/17/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	457
SW04	01/17/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	146

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel 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<sup>1</sup> for Soils Impacted by a Release<sup>1</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.

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## APPENDIX F

### Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401128

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401128  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:  01/29/24 09:47
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.25'	E401128-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:47:24AM
--	--	----------------------------------

FS01 0.25'

E401128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	78.7 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	11800	200	10	01/23/24	01/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:47:24AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

LCS (2404026-BS1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130			
Toluene	4.90	0.0250	5.00		97.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2404026-MS1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.13	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2404026-MSD1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.94	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	2.25	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	1.95	20	
o-Xylene	5.24	0.0250	5.00	ND	105	63-131	2.16	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.28	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	2.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:47:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2404026-BS2) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2404026-MS2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.6	70-130			

Matrix Spike Dup (2404026-MSD2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.916	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:47:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:47:24AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404020-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404020-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404020-MS1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2404020-MSD1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	252	20.0	250	ND	101	80-120	0.906	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:47

- ND            Analyte NOT DETECTED at or above the reporting limit
- NR            Not Reported
- RPD          Relative Percent Difference
- DNI          Did Not Ignite
- DNR          Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley				Lab WO# E 401128				Job Number 010680007				1D 2D 3D Standard CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method				5 day TAT			
Address: 13000 W County Rd 100				Phone: 575-885-7502				Email: jim.raley@dv.com				Incident ID: nAPP2316445941				RCRA			
City, State, Zip: Odessa, TX, 79765				WO: 21191055												State			
Phone: 832-541-7719																NM CO UT AZ TX			
Email: Devon-team@etechnv.com																Remarks			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GTO (ORD) by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX						
9:40	01.17.24	S	1	FS01	1	0.25'						X							
<div>01/22/24</div>																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only			
Michelle Raley				01/22/24		1140		Michelle Raley				1-22-24		1140		Received on ice: Y / N			
Michelle Raley				1-22-24		1630		Michelle Raley				1-22-24		1730		T1 T2 T3			
Michelle Raley				1-22-24		2400		Michelle Raley				1-22-24		0600		AVG Temp °C 4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech



## Envirotech Analytical Laboratory

Printed: 1/24/2024 8:34:43AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/23/24 06:00	Work Order ID:	E401128
Phone:	(539) 573-4018	Date Logged In:	01/22/24 15:54	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

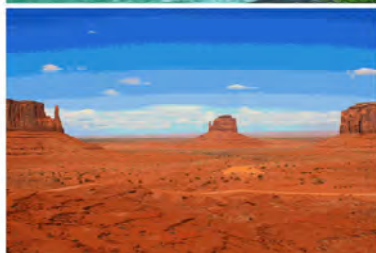
Date



envirotech Inc.

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401129

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401129  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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**  
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:  01/29/24 09:45
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 0.25'	E401129-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.





Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:45:40AM

FS02 0.25'

E401129-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	0.0643	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	41.2	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	79.4 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	9060	100	5	01/23/24	01/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:45:40AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

LCS (2404026-BS1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130			
Toluene	4.90	0.0250	5.00		97.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2404026-MS1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.13	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2404026-MSD1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.94	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	2.25	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	1.95	20	
o-Xylene	5.24	0.0250	5.00	ND	105	63-131	2.16	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.28	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	2.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:45:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2404026-BS2) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2404026-MS2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.6	70-130			

Matrix Spike Dup (2404026-MSD2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.916	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:45:40AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:45:40AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404020-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404020-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404020-MS1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2404020-MSD1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	252	20.0	250	ND	101	80-120	0.906	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:45

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



### Project Information

### Chain of Custody

Page 1 of 1

[illegible]

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**envirotech**

## Envirotech Analytical Laboratory

Printed: 1/24/2024 3:18:54PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
 Phone: (539) 573-4018  
 Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
 Date Logged In: 01/22/24 15:54  
 Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401129  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
 Sample ID? Yes  
 Date/Time Collected? Yes  
 Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? Yes
22. Are sample(s) correctly preserved? No
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

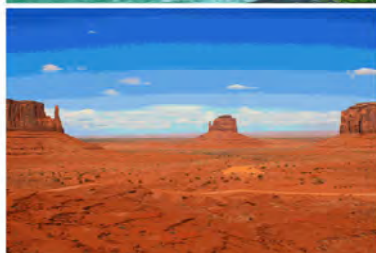
Date



envirotech Inc.

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401130

Job Number: 01058-0007

Received: 1/23/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401130  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 14:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 - 0.25'	E401130-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS04 - 0.25'	E401130-02A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS05 - 0.25'	E401130-03A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

FS03 - 0.25'

E401130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	357	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	460	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	80.0 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	8370	200	10	01/23/24	01/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

FS04 - 0.25'  
E401130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	4990	100	5	01/23/24	01/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

FS05 - 0.25'  
E401130-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/23/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	378	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	494	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	7740	200	10	01/23/24	01/23/24	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1)Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

LCS (2404026-BS1)Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130			
Toluene	4.90	0.0250	5.00		97.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2404026-MS1)Source: E401128-01Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.13	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2404026-MSD1)Source: E401128-01Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.94	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	2.25	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	1.95	20	
o-Xylene	5.24	0.0250	5.00	ND	105	63-131	2.16	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.28	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	2.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2404026-BS2) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2404026-MS2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.6	70-130			

Matrix Spike Dup (2404026-MSD2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.916	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 2:03:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404020-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404020-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404020-MS1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2404020-MSD1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	252	20.0	250	ND	101	80-120	0.906	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 14:03

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley				Lab WO# E401130				Job Number 010580007				1D 2D 3D Standard CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				Analysis and Method				5 day TAT				RCRA			
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220															
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502															
Phone: 832-541-7719				Email: jim.raley@dvx.com															
Email: Devon-team@etechnv.com				WO: 21191055															
Incident ID: nAPP2316445941																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH (5.0/DIR) (DIR) by 8015	BTEX by 8021	VOC by 8260	Metal 6010	Chloride 3000	BGDOC NM	GDQC TX	State					
														NM	CO	UT	AZ	TX	
10:00	01.17.24	S	1	FS03	1	0.25'						X							
10:10	01.17.24	S	1	FS04	2	0.25'						X							
10:20	01.17.24	S	1	FS05	3	0.25'						X							
01/22/24																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: CR																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		01/22/24	11:40	[Signature]		1-22-24	1140	Received on ice: Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		1-22-24	1630	[Signature]		1-22-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4											
[Signature]		1-22-24	2400	[Signature]		1-23-24	0600												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech



## Envirotech Analytical Laboratory

Printed: 1/29/2024 2:02:06PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
 Phone: (539) 573-4018  
 Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
 Date Logged In: 01/22/24 15:54  
 Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401130  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
 Sample ID? Yes  
 Date/Time Collected? Yes  
 Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401131

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401131  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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](mailto:whinchman@envirotech-inc.com)

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Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 15:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 - 0.25'	E401131-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 3:43:50PM
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FS06 - 0.25'

E401131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	0.0375	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/24/24	01/25/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/24/24	01/25/24	
Surrogate: Toluene-d8	89.3 %	70-130		01/24/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/24/24	01/25/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/24/24	01/25/24	
Surrogate: Toluene-d8	89.3 %	70-130		01/24/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404047
Diesel Range Organics (C10-C28)	230	25.0	1	01/25/24	01/26/24	
Oil Range Organics (C28-C36)	296	50.0	1	01/25/24	01/26/24	
Surrogate: n-Nonane	116 %	50-200		01/25/24	01/26/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2404044
Chloride	909	20.0	1	01/25/24	01/25/24	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 3:43:50PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2404041-BLK1) Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.3	70-130			

LCS (2404041-BS1) Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	2.90	0.0250	2.50		116	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.43	0.0250	2.50		97.0	70-130			
o-Xylene	2.39	0.0250	2.50		95.7	70-130			
p,m-Xylene	4.69	0.0500	5.00		93.7	70-130			
Total Xylenes	7.08	0.0250	7.50		94.4	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike (2404041-MS1) Source: E401150-01 Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	2.99	0.0250	2.50	ND	119	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.6	43-135			
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.9	43-135			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.442		0.500		88.4	70-130			

Matrix Spike Dup (2404041-MSD1) Source: E401150-01 Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	2.96	0.0250	2.50	ND	118	48-131	1.01	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135	1.57	27	
Toluene	2.42	0.0250	2.50	ND	97.0	48-130	2.40	24	
o-Xylene	2.43	0.0250	2.50	ND	97.0	43-135	1.68	27	
p,m-Xylene	4.73	0.0500	5.00	ND	94.5	43-135	1.51	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.4	43-135	1.57	27	
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.443		0.500		88.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 3:43:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404041-BLK1) Prepared: 01/24/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.3	70-130			

LCS (2404041-BS2) Prepared: 01/24/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.3	70-130			

Matrix Spike (2404041-MS2) Source: E401150-01 Prepared: 01/24/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.2	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		0.500		106	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2404041-MSD2) Source: E401150-01 Prepared: 01/24/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.8	70-130	0.644	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.448		0.500		89.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 3:43:50PM

Nonhalogenated Organics 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
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Blank (2404047-BLK1)					Prepared: 01/25/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404047-BS1)					Prepared: 01/25/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

Matrix Spike (2404047-MS1)					Source: E401155-03		Prepared: 01/25/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	58.0		50.0		116	50-200			

Matrix Spike Dup (2404047-MSD1)					Source: E401155-03		Prepared: 01/25/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	1.77	20	
Surrogate: n-Nonane	57.2		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 3:43:50PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404044-BLK1)					Prepared: 01/25/24 Analyzed: 01/25/24				
Chloride	ND	20.0							
LCS (2404044-BS1)					Prepared: 01/25/24 Analyzed: 01/25/24				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2404044-MS1)					Source: E401155-04		Prepared: 01/25/24 Analyzed: 01/25/24		
Chloride	248	20.0	250	ND	99.1	80-120			
Matrix Spike Dup (2404044-MSD1)					Source: E401155-04		Prepared: 01/25/24 Analyzed: 01/25/24		
Chloride	249	20.0	250	ND	99.6	80-120	0.451	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 15:43

- ND      Analyte NOT DETECTED at or above the reporting limit
  - NR      Not Reported
  - RPD      Relative Percent Difference
  - DNI      Did Not Ignite
  - DNR      Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 11 of 12

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley				Lab WO#				Job Number				1D 2D 3D Standard CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 461131				01056007				5 day TAT			
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method				RCRA				State			
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502															
Phone: 832-541-7719				Email: jim.raley@dv.com				Depth (ft.)				TPH GRO/DRO/ORO by 8015				BTEX by 8021			
Email: Devon-team@etechnv.com				WO: 21191055				VOC by 8260				Metals 6010				Chloride 300.0			
Incident ID: nAPP2316445941																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOD TX	Remarks					
10:30	01.17.24	S	1	FS06	1	0.25'						x							
5/11/24/24																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: (Y) / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech



## Envirotech Analytical Laboratory

Printed: 1/24/2024 4:28:47PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
 Phone: (539) 573-4018  
 Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
 Date Logged In: 01/22/24 15:55  
 Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401131  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:  
Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401132

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401132  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 0.25'	E401132-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:40:40AM
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FS07 0.25'

E401132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	0.0283	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		01/23/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		01/23/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	99.3	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	133	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	83.1 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2404020	
Chloride	8280	200	10	01/23/24	01/24/24	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:40:40AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404028-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

LCS (2404028-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.41	0.0250	5.00		88.2	70-130			
Ethylbenzene	4.32	0.0250	5.00		86.5	70-130			
Toluene	4.39	0.0250	5.00		87.7	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.81	0.0500	10.0		88.1	70-130			
Total Xylenes	13.2	0.0250	15.0		87.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike (2404028-MS1) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2404028-MSD1) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.67	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	3.99	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	3.78	20	
o-Xylene	4.98	0.0250	5.00	ND	99.5	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.98	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:40:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404028-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			

LCS (2404028-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2404028-MS2) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.1	70-130			

Matrix Spike Dup (2404028-MSD2) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	6.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:40:40AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:40:40AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404020-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404020-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404020-MS1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2404020-MSD1)					Source: E401125-02		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	252	20.0	250	ND	101	80-120	0.906	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:40

- ND      Analyte NOT DETECTED at or above the reporting limit
  - NR      Not Reported
  - RPD      Relative Percent Difference
  - DNI      Did Not Ignite
  - DNR      Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



### Project Information

### Chain of Custody

Page 1 of 1

[illegible]

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## Envirotech Analytical Laboratory

Printed: 1/24/2024 3:25:39PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
Phone: (539) 573-4018  
Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
Date Logged In: 01/22/24 15:56  
Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401132  
Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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  
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes  
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes  
8. If yes, was cooler received in good condition? Yes  
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No  
15. Are VOC samples collected in VOA Vials? NA  
16. Is the head space less than 6-8 mm (pea sized or less)? NA  
17. Was a trip blank (TB) included for VOC analyses? NA  
18. Are non-VOC samples collected in the correct containers? Yes  
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No  
22. Are sample(s) correctly preserved? NA  
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No  
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No  
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

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

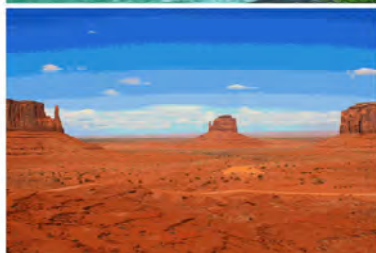
Date



envirotech Inc.

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401133

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401133  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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**  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**Alexa Michaels**  
Sample Custody Officer  
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Field Offices:

**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08 0.25'	E401133-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS09 0.25'	E401133-02A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS10 0.25'	E401133-03A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS11 0.25'	E401133-04A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS12 0.25'	E401133-05A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
FS13 0.25'	E401133-06A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

FS08 0.25'

E401133-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	83.0 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	4590	40.0	2	01/23/24	01/24/24	





Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

FS09 0.25'  
E401133-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	79.5 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	1130	20.0	1	01/23/24	01/24/24	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16 #009  
Project Number: 01058-0007  
Project Manager: Gilbert Moreno

**Reported:**  
1/29/2024 9:53:28AM

FS10 0.25'

E401133-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	81.5 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	782	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

FS11 0.25'  
E401133-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.5 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	76.5 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	241	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

FS12 0.25'  
E401133-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	0.0719	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	83.6 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	2440	200	10	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

FS13 0.25'  
E401133-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	79.5 %	50-200		01/24/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	1170	20.0	1	01/23/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404031-BLK1) Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

LCS (2404031-BS1) Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	3.88	0.0250	5.00		77.5	70-130			
Ethylbenzene	3.72	0.0250	5.00		74.3	70-130			
Toluene	3.87	0.0250	5.00		77.3	70-130			
o-Xylene	3.86	0.0250	5.00		77.3	70-130			
p,m-Xylene	7.68	0.0500	10.0		76.8	70-130			
Total Xylenes	11.5	0.0250	15.0		77.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike (2404031-MS1) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	4.40	0.0250	5.00	ND	87.9	54-133			
Ethylbenzene	4.19	0.0250	5.00	ND	83.9	61-133			
Toluene	4.39	0.0250	5.00	ND	87.7	61-130			
o-Xylene	4.37	0.0250	5.00	ND	87.4	63-131			
p,m-Xylene	8.66	0.0500	10.0	ND	86.6	63-131			
Total Xylenes	13.0	0.0250	15.0	ND	86.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2404031-MSD1) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	4.60	0.0250	5.00	ND	91.9	54-133	4.44	20	
Ethylbenzene	4.41	0.0250	5.00	ND	88.1	61-133	4.98	20	
Toluene	4.60	0.0250	5.00	ND	91.9	61-130	4.67	20	
o-Xylene	4.55	0.0250	5.00	ND	91.0	63-131	4.06	20	
p,m-Xylene	9.09	0.0500	10.0	ND	90.9	63-131	4.90	20	
Total Xylenes	13.6	0.0250	15.0	ND	91.0	63-131	4.62	20	
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404031-BLK1) Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

LCS (2404031-BS2) Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	36.6	20.0	50.0		73.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2404031-MS2) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	35.7	20.0	50.0	ND	71.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

Matrix Spike Dup (2404031-MSD2) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130	14.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:53:28AM

Anions by EPA 300.0/9056A

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
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Blank (2404021-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404021-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2404021-MS1)					Source: E401126-03		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2404021-MSD1)					Source: E401126-03		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	259	20.0	250	ND	103	80-120	0.868	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:53

- ND Analyte NOT DETECTED at or above the reporting limit
  - NR Not Reported
  - RPD Relative Percent Difference
  - DNI Did Not Ignite
  - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program							
Project: RDX 16 #009				Attention: Jim Raley				Lab WO#				Job Number				1D 2D 3D Standard				CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 40133				010680007				5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method								RCRA							
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502																			
Phone: 832-541-7719				Email: jim.raley@dv.com																			
Email: Devon-team@etechnv.com				WO: 21191055																			
				Incident ID: nAPP2316445941																			
Collected by: Edyte Konan																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRD/DRO/ORD by 8015	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State									
														NM	CO	UT	AZ	TX					
10:50	01.17.24	S	1	FS08	1	0.25'						X											
11:00	01.17.24	S	1	FS09	2	0.25'						X											
11:10	01.17.24	S	1	FS10	3	0.25'						X											
11:20	01.17.24	S	1	FS11	4	0.25'						X											
11:30	01.17.24	S	1	FS12	5	0.25'						X											
11:40	01.17.24	S	1	FS13	6	0.25'						X											
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																							
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only							
Michelle Gough				01/22/24		11:40		Michelle Gough				1-22-24		1140		Received on ice: Y/ N							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3							
Michelle Gough				1-22-24		1630		Andrew Hall				1-22-24		1730									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C							
Andrew Hall				1-22-24		2400		Karyn R Hall				1-23-24		0600		4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

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envirotech

## Envirotech Analytical Laboratory

Printed: 1/24/2024 3:29:44PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
 Phone: (539) 573-4018  
 Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
 Date Logged In: 01/22/24 15:56  
 Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401133  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

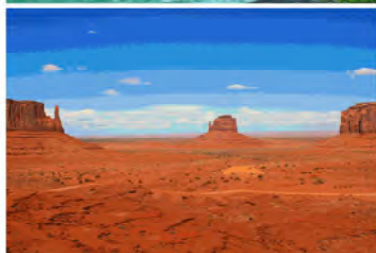
Date



envirotech Inc.

Report to:

Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E401134

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 1/29/24

Gilbert Moreno  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16 #009  
Workorder: E401134  
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-0.25'	E401134-01A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
SW02 0-0.25'	E401134-02A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
SW03 0-0.25'	E401134-03A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.
SW04 0-0.25'	E401134-04A	Soil	01/17/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

SW01 0-0.25'

E401134-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	81.6 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	343	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

SW02 0-0.25'

E401134-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	85.5 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	228	40.0	2	01/24/24	01/24/24	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16 #009  
Project Number: 01058-0007  
Project Manager: Gilbert Moreno

**Reported:**  
1/29/2024 9:55:07AM

SW03 0-0.25'

E401134-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	76.7 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	457	40.0	2	01/24/24	01/24/24	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16 #009  
Project Number: 01058-0007  
Project Manager: Gilbert Moreno

**Reported:**  
1/29/2024 9:55:07AM

SW04 0-0.25'

E401134-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		01/23/24	01/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	83.2 %	50-200		01/24/24	01/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	146	20.0	1	01/24/24	01/24/24	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404031-BLK1) Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

LCS (2404031-BS1) Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	3.88	0.0250	5.00		77.5	70-130			
Ethylbenzene	3.72	0.0250	5.00		74.3	70-130			
Toluene	3.87	0.0250	5.00		77.3	70-130			
o-Xylene	3.86	0.0250	5.00		77.3	70-130			
p,m-Xylene	7.68	0.0500	10.0		76.8	70-130			
Total Xylenes	11.5	0.0250	15.0		77.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike (2404031-MS1) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	4.40	0.0250	5.00	ND	87.9	54-133			
Ethylbenzene	4.19	0.0250	5.00	ND	83.9	61-133			
Toluene	4.39	0.0250	5.00	ND	87.7	61-130			
o-Xylene	4.37	0.0250	5.00	ND	87.4	63-131			
p,m-Xylene	8.66	0.0500	10.0	ND	86.6	63-131			
Total Xylenes	13.0	0.0250	15.0	ND	86.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2404031-MSD1) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Benzene	4.60	0.0250	5.00	ND	91.9	54-133	4.44	20	
Ethylbenzene	4.41	0.0250	5.00	ND	88.1	61-133	4.98	20	
Toluene	4.60	0.0250	5.00	ND	91.9	61-130	4.67	20	
o-Xylene	4.55	0.0250	5.00	ND	91.0	63-131	4.06	20	
p,m-Xylene	9.09	0.0500	10.0	ND	90.9	63-131	4.90	20	
Total Xylenes	13.6	0.0250	15.0	ND	91.0	63-131	4.62	20	
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404031-BLK1) Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

LCS (2404031-BS2) Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	36.6	20.0	50.0		73.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2404031-MS2) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	35.7	20.0	50.0	ND	71.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

Matrix Spike Dup (2404031-MSD2) Source: E401134-02 Prepared: 01/23/24 Analyzed: 01/25/24

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130	14.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1)					Source: E401130-01		Prepared: 01/24/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:55:07AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404037-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404037-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404037-MS1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2404037-MSD1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	263	20.0	250	ND	105	80-120	0.997	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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:55

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT				EPA Program				
Project: RDX 16 8009				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 401134		010510009		5 day TAT						
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method									RCRA	
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502												
Phone: 832-541-7719				Email: jim.raley@dv.com												
Email: Devon-team@etechnv.com				WO: 21191055												
				Incident ID: nAPP2316445941												
Collected by: Edyte Konan																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Deposits	17% GAO/ORGANO BY 8015	BITER BY 8011	POC by EMO	Metals 8010	Chloride 3000	BCDOC NM	GDOD TX	Remarks		
9:00	01.17.24	S	1	SW01	1	0-0.25						X				
9:10	01.17.24	S	1	SW02	2	0-0.25						X				
9:20	01.17.24	S	1	SW03	3	0-0.25						X				
9:30	01.17.24	S	1	SW04	4	0-0.25						X				
01/22/24																
Additional Instructions:																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																
Sampled by: TX																
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time		Lab Use Only		
Michelle Gonzales				01/22/24		11:40		Michelle Gonzales		1-22-24		1140		Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time		T1		
Michelle Gonzales				1-22-24		1630		Michelle Gonzales		1-23-24		6:00		T2		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time		T3		
														AVG Temp °C 4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

envirotech

## Envirotech Analytical Laboratory

Printed: 1/25/2024 1:55:29PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
 Phone: (539) 573-4018  
 Email: devon-team@ensolum.com

Date Received: 01/23/24 06:00  
 Date Logged In: 01/22/24 15:56  
 Due Date: 01/29/24 17:00 (4 day TAT)

Work Order ID: E401134  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.



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## APPENDIX G

### NMOCD Notifications

**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**

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

**District IV**

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

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

QUESTIONS

Action 302172

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302172
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2316445941
Incident Name	NAPP2316445941 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/08/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,008
What is the estimated number of samples that will be gathered	43
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno with any questions at (432)305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush and Pipeline Rd, go east on Pipeline Rd. for approximately 3.32 mi, turn right for 1.34 mi; turn left for 0.27 mi. to Site Location (32.0453, -103.8901).

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 302172

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302172
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/10/2024

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## APPENDIX H

### Previously Submitted Closure Request Report



# CLOSURE REQUEST REPORT

**RDX 16 #009**

**Eddy County, New Mexico**

**Incident Number**

**nAPP2316445941**

**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) to document site assessment and soil sampling activities performed for an inadvertent release of crude oil and produced water at the RDX 16 #009 (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 F, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0453377°, -103.8900681°) and is associated with oil and gas exploration and production operations on State Land (**Figure 1** in **Appendix A**).

On June 8, 2023, failure of the wellhead packing caused the release of approximately 3 barrels (bbls) of crude oil and 50 (bbls) of produced water onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 1 bbl of crude oil. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on June 13, 2023, and was subsequently assigned Incident Number nAPP2316445941. A crude oil released volume was reported on the Initial Form C-141, however, the checkbox denotation was not completed under the section "Nature and Volume of Release. The correction is provided on the Final Form C-141. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern (AOC).

## 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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring (C-04068-POD1) that was drilled by Atkins Engineering Associates, Inc., located approximately 0.21 miles west of the Site. The soil boring location may be referenced on **Figure 1** in **Appendix A**. Using a truck mounted drill rig equipped with a hollow stem auger, the soil boring was advanced to a total depth of 125 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. The boring log and plugging records 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
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

## SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On June 28, 2023, Etech conducted site assessment and delineation activities to characterize the subject release by verifying the presence or absence of impacted soil within and around the AOC. Nine delineation potholes (PH01 through PH09) were advanced via mechanical equipment to assess the vertical and lateral extent of the AOC. Three potholes (PH01 through PH03) were advanced within the AOC and four potholes (PH04 through PH09) were advanced in every cardinal direction surrounding the AOC to confirm horizontal delineation. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® 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.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01 through PH09 indicated all analyzed COCs were below the Site Closure Criteria.

Additionally, concentrations of COCs for potholes surrounding the AOC (PH04 through PH09) provide horizontal delineation of the AOC. 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 laboratory analytical results for all delineation soil samples, concentrations of COCs for delineation soil samples collected within the AOC were below the Site Closure Criteria. Furthermore, delineation soil samples collected around the AOC define the horizontal periphery of the subject release. WPX believes the initial remedial actions have mitigated impacts at the Site and meet the requirements set forth in NMAC 19.15.29.13 to be protective of human health, the environment and groundwater. As



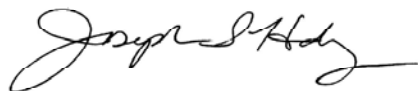
such, NFA appears warranted at this time and this CRR for Incident Number nAPP2316445941 should be respectfully considered for Closure by the NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or [joseph@etechenv.com](mailto:joseph@etechenv.com) or Gilbert Moreno at (832) 541-7719 or [gilbert@etechenv.com](mailto:gilbert@etechenv.com). **Appendix G** provides correspondence email notification receipts associated with the subject release.

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  
State Land Office

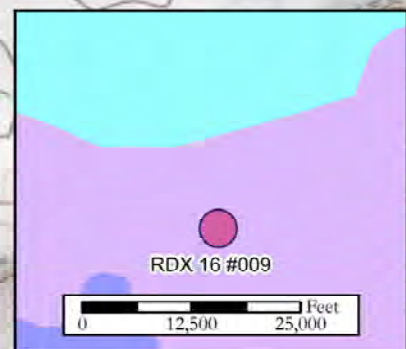
**Appendices:**

- Appendix A:** Figure 1: Site Map  
Figure 2: Delineation Soil Sample Locations
- Appendix B:** Referenced Well Records
- Appendix C:** Lithologic Sampling Logs
- Appendix D:** Photographic Log
- Appendix E:** Tables
- Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G:** NMOCD Notifications

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# APPENDIX A

## Figures



Notes:

- Environmental Systems Research Institute (ESRI),
- New Mexico Oil and Conservation Division (NMOCD),
- United States Fish and Wildlife Service (USFWS)
- Office of the State Engineer (OSE),
- United States Geological Survey (USGS),
- Bureau of Land Management (BLM),
- Carlsbad Field Office (CFO),
- FEMA's National Flood Hazard Layer (NFHL),
- DTW - Depth to Water

Sources:  
US Fish and Wildlife Service, National Standards and Support Team  
wetlands\_team@fws.gov  
NMOC Oil and Gas Map  
USGS National Water Information System: Mapper,  
BLM CFO Karst Map

WPX ENERGY PERMIAN, LLC  
RDX Federal 16 #009  
Unit F Sec 16 T26S R30E  
Eddy County, New Mexico





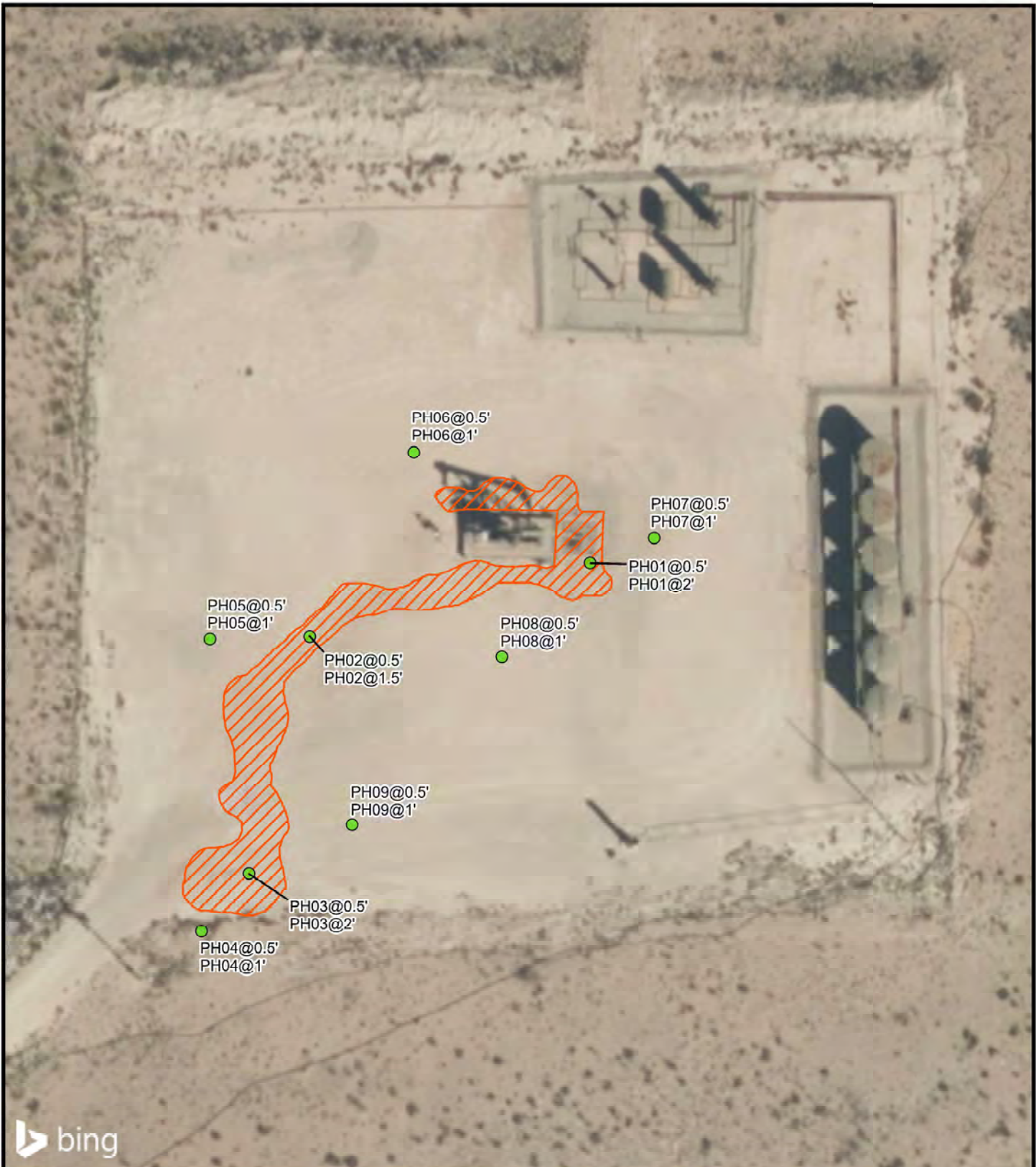
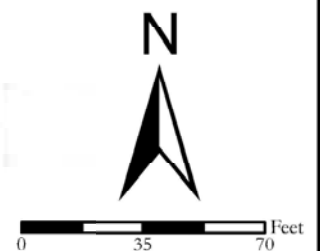


FIGURE 2

## Delineation Soil Sample Locations

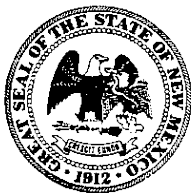
WPX ENERGY PERMIAN, LLC  
RDX Federal 16 #009  
Unit F Sec 16 T26S R30E  
Eddy County, New Mexico



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## APPENDIX B

### Referenced Well Records



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE OF NEW MEXICO  
ROOSEVELT, NEW MEXICO

2017 MAY 17 PM 1:58

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-4068 POD1				OSE FILE NUMBER(S) C-4068			
	WELL OWNER NAME(S) RKI Exploration and Production, LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3500 One Williams Center MD 35,				CITY STATE ZIP Tulsa OK 74172			
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LATITUDE	32	2				43.95
	LONGITUDE	103	53	39.23	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW/4SW/4NW/4 Section 16, Township 26S, Range 30 E, N.M.P.M.								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 5/11/2017		DRILLING ENDED 5/12/2017		DEPTH OF COMPLETED WELL (FT) n/a		BORE HOLE DEPTH (FT) 125	
					DEPTH WATER FIRST ENCOUNTERED (FT) none encountered			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: hollow stem auger with air rotary							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	125	±6.625	n/a	n/a	n/a	n/a	n/a
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	n/a	n/a	n/a	n/a	n/a	n/a		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-4068	POD NUMBER	1	TRN NUMBER	606777
LOCATION	26S-30E-16-1-3-1			EXPL	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	C-4068	POD NUMBER	1
LOCATION	26S-30E-112-103-1	TRN NUMBER	6006777
		EXP/	PAGE 2 OF 2



Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 606777  
File Nbr: C 04068  
Well File Nbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE  
RKI EXPLORATION AND PRODUCTION LLC  
3500 ONE WILLIAMS CENTER MD 35  
TULSA, OK 74172

Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Dunaway".


Deborah Dunaway  
(575) 622-6521


drywell


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## APPENDIX C


### Lithologic Sampling Logs

								Sample Name: PH01		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	10,068	0.8	No	PH01	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	2,404	1.3	No		1	1	SW-SM	1-2' bgs: SAND, dry, light brown, well graded, fine to coarse grained, with some silt, non-plastic, and noncohesive, no staining, no odor			
Dry	1,588	0.7	No	PH01	2	2					
Total Depth: 2 feet bgs											


								Sample Name: PH02		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	13,356	0.4	No	PH02	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	7,140	0	No		1	1	SW-SM	1-1.5' bgs: SAND, dry, light brown, well graded, fine to coarse grained, with some silt, non-plastic, and noncohesive, no staining, no odor			
Dry	6,576	0	No	PH02	1.5	1.5					
Total Depth: 1.5 feet bgs											


								Sample Name: PH03		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	5,592	0	No	PH03	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	3,452	0	No		1	1	SW-SM	1-2' bgs: SAND, dry, light brown, well graded, fine to coarse grained, with some silt, non-plastic, and noncohesive, no staining, no odor			
Dry	<120	0.2	No	PH03	2	2					
Total Depth: 2 feet bgs											


								Sample Name: PH04		Date: 06/28/2023					
								Site Name: RDX 16 #009							
								Incident Number: nAPP2316445941							
								Job Number: 18317							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe					
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes							
Dry	284	0	No	PH04	0.5	0.5	SP	0-1' SAND, dry, light brown, poorly graded, very fine to fine grained, non-plastic, and noncohesive, no stain, no odor							
Dry	216	0	No	PH04	1	1									
Total Depth: 1 foot bgs															


								Sample Name: PH05		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	216	0	No	PH05	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	152	0	No	PH05	1	1					
Total Depth: 1 foot bgs											



								Sample Name: PH06		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	216	0	No	PH06	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	152	0.1	No	PH06	1	1					
Total Depth: 1 foot bgs											

								Sample Name: PH07		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	152	0	No	PH07	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	124	0	No	PH07	1	1					
Total Depth: 1 foot bgs											

								Sample Name: PH08		Date: 06/28/2023	
								Site Name: RDX 16 #009			
								Incident Number: nAPP2316445941			
								Job Number: 18317			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe	
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	152	0	No	PH08	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor			
Dry	124	0.1	No	PH08	1	1					
Total Depth: 1 foot bgs											

								Sample Name: PH09		Date: 06/28/2023			
								Site Name: RDX 16 #009					
								Incident Number: nAPP2316445941					
								Job Number: 18317					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Edyte Konan		Method: Backhoe			
Site Coordinates: 32.045209, -103.890024								Hole Diameter: N/A		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	124	0	No	PH09	0.5	0 0.5	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor					
Dry	<120	0	No	PH09	1	1							
Total Depth: 1 foot bgs													

---

# APPENDIX D

## Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

Incident Number: nAPP2316445941

**Photograph 1****Date: 06/14/2023**

Description: Southeastern view of the release footprint during initial Site assessment.

**Photograph 2****Date: 06/14/2023**

Description: Northeastern view of the release footprint during initial Site assessment.



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

Incident Number: nAPP2316445941

Date & Time: Wed, Jun 28, 2023 at 13:27:45 MDT  
 Position: +032.045098° / -103.890374° (±19.1ft)  
 Altitude: 3093ft (±13.1ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 271° N89W 4818mils True (±11°)  
 Elevation Angle: -13.1°  
 Horizon Angle: +03.7°  
 Zoom: 0.5X  
 PH02

**Photograph 3****Date: 06/28/2023**

Description: Northwestern view during delineation activities within the area of concern.

Date & Time: Wed, Jun 28, 2023 at 13:28:11 MDT  
 Position: +032.045221° / -103.890370° (±15.7ft)  
 Altitude: 3103ft (±10.9ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 330° N30W 5867mils True (±11°)  
 Elevation Angle: -13.2°  
 Horizon Angle: -00.4°  
 Zoom: 0.5X  
 PH02

**Photograph 4****Date: 06/28/2023**

Description: Northwest view during delineation activities within the area of concern.



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

Incident Number: nAPP2316445941

Date & Time: Thu, Jul 13, 2023 at 08:55:36 MDT  
Position: +032.044942° / -103.890480° (±16.1ft)  
Altitude: 3097ft (±10.3ft)  
Datum: WGS-84  
Azimuth/Bearing: 310° N50W 5511mils True (±15°)  
Elevation Angle: -09.8°  
Horizon Angle: -01.4°  
Zoom: 0.5X  
0.5" clean up

**Photograph 5****Date: 07/13/2023**

Description: Northwestern view following restoration activities near the area of concern.

Date & Time: Thu, Jul 13, 2023 at 08:56:46 MDT  
Position: +032.045405° / -103.890130° (±15.6ft)  
Altitude: 3100ft (±11.0ft)  
Datum: WGS-84  
Azimuth/Bearing: 184° S04W 3271mils True (±14°)  
Elevation Angle: -13.0°  
Horizon Angle: -03.7°  
Zoom: 0.5X  
0.5" clean up


**Photograph 6****Date: 07/13/2023**

Description: Southwestern view following restoration activities near the area of concern.

---

# APPENDIX E

## Tables

<div>  <div> <b>Table 1</b>  <b>SOIL SAMPLE ANALYTICAL RESULTS</b>  <b>WPX Energy Permian, LLC</b>  <b>RDX 16 #009</b>  <b>Eddy County, New Mexico</b> </div> </div>										
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 Closure Criteria for Soils Impacted by a Release (NMAC 19,15,29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Number nAB1632648516										
PH01	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,300
PH01	06/28/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,050
PH02	06/28/2023	0.5	<0.0250	<0.0500	<20.0	140	71.6	140	211.6	14,600
PH02	06/28/2023	1.5	<0.0250	<0.0500	<20.0	93.6	<50.0	93.6	93.6	6,660
PH03	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,910
PH03	06/28/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.1
PH04	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	247
PH04	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	214
PH05	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
PH05	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	472
PH06	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	200
PH06	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	462
PH07	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	153
PH07	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
PH08	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	144
PH08	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	119
PH09	06/28/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	101
PH09	06/28/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.0

Notes:  
bgs: below ground surface  
mg/kg: milligrams per kilogram  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon  
NMOCD: New Mexico Oil Conservation Division  
NMAC: New Mexico Administrative Code  
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Remedation Standard for Soils Impacted by a Release

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## APPENDIX F

### Laboratory Analytical Reports & Chain-of-Custody Documentation

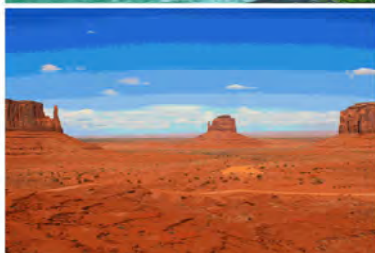
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P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Report to:

Joseph Hernandez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E306236

Job Number: 01058-0007

Received: 6/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/10/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 7/10/23

Joseph Hernandez  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16-9H  
Workorder: E306236  
Date Received: 6/30/2023 8:20:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/30/2023 8:20:00AM, under the Project Name: RDX 16-9H.

The analytical test results summarized in this report with the Project Name: RDX 16-9H 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 regarding 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**  
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Cell: 775-287-1762  
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**Rayny Hagan**  
Technical Representative  
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/10/23 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E306236-01A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH01 2'	E306236-02A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH02 0.5'	E306236-03A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH02 1.5'	E306236-04A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH03 0.5'	E306236-05A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH03 2'	E306236-06A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 2:48:07PM
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## PH01 0.5'

## E306236-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Benzene	ND	0.0250	1	06/30/23	07/02/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/02/23	
Toluene	ND	0.0250	1	06/30/23	07/02/23	
o-Xylene	ND	0.0250	1	06/30/23	07/02/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/02/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/02/23	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.7 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2327033	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
Surrogate: n-Nonane	100 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	10300	400	20	07/05/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 2:48:07PM
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PH01 2'

E306236-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/02/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/02/23	
Toluene	ND	0.0250	1	06/30/23	07/02/23	
o-Xylene	ND	0.0250	1	06/30/23	07/02/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/02/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	83.0 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	2050	40.0	2	07/05/23	07/07/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 2:48:07PM

PH02 0.5'

E306236-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/02/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/02/23	
Toluene	ND	0.0250	1	06/30/23	07/02/23	
o-Xylene	ND	0.0250	1	06/30/23	07/02/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/02/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	140	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	71.6	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	14600	400	20	07/05/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 2:48:07PM
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PH02 1.5'

E306236-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Benzene	ND	0.0250	1	06/30/23	07/02/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/02/23	
Toluene	ND	0.0250	1	06/30/23	07/02/23	
o-Xylene	ND	0.0250	1	06/30/23	07/02/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/02/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.4 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327033	
Diesel Range Organics (C10-C28)	93.6	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	89.5 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	6660	100	5	07/05/23	07/07/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 2:48:07PM

PH03 0.5'

E306236-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		06/30/23	07/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		06/30/23	07/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	89.1 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	5910	40.0	2	07/05/23	07/07/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	<b>Reported:</b> 7/10/2023 2:48:07PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH03 2'

E306236-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Benzene	ND	0.0250	1	06/30/23	07/02/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/02/23	
Toluene	ND	0.0250	1	06/30/23	07/02/23	
o-Xylene	ND	0.0250	1	06/30/23	07/02/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/02/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/02/23	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.6 %	70-130		06/30/23	07/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2327033	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
Surrogate: n-Nonane	92.5 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	86.1	20.0	1	07/05/23	07/07/23	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:48:07PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326080-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			

LCS (2326080-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	5.18	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2326080-MS1)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Benzene	4.98	0.0250	5.00	ND	99.7	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133			
Toluene	4.93	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.80	0.0500	10.0	ND	98.0	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2326080-MSD1)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	1.52	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.76	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	1.74	20	
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131	1.73	20	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131	1.71	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	1.72	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:48:07PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326080-BLK1) Prepared: 06/30/23 Analyzed: 07/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

LCS (2326080-BS2) Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike (2326080-MS2) Source: E306236-06 Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2326080-MSD2) Source: E306236-06 Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	83.1	70-130	1.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:48:07PM

Nonhalogenated Organics 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
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Blank (2327033-BLK1)					Prepared: 07/06/23 Analyzed: 07/07/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.0		50.0		91.9	50-200			

LCS (2327033-BS1)					Prepared: 07/06/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

Matrix Spike (2327033-MS1)					Source: E306236-04		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	366	25.0	250	93.6	109	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			

Matrix Spike Dup (2327033-MSD1)					Source: E306236-04		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	383	25.0	250	93.6	116	38-132	4.62	20	
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:48:07PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2327018-BLK1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	ND	20.0							
LCS (2327018-BS1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2327018-MS1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	427	20.0	250	153	110	80-120			
Matrix Spike Dup (2327018-MSD1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	418	20.0	250	153	106	80-120	2.14	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

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/10/23 14:48

- 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.



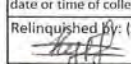

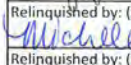
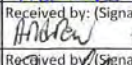
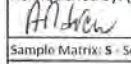
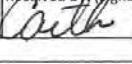
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 1

Client: WPX Energy Permian LLC.				<b>Bill To</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>EPA Program</b>					
Project: RDX 16-9H				Attention: Jim Raley				Lab WO# <b>E306230</b>				Job Number <b>01058-0007</b>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Joseph Hernandez				Address: 5315 Buena Vista Dr.																	
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220															5 day TAT		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502																	RCRA
Phone: (281) 702-2329				Email: jim.raley@devon.com																	
Email: Devon-team@etechnv.com				WBS/WO: 21191055																	
Collected by: Edyte Konan				Incident ID: nAPP2316445941																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	PH 680/800 by 8015	ETEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	Remarks							
12:00	6/28/2023	S	1	PH01	1	0.5'						X									
12:10	6/28/2023	S	1	PH01	2	2'						X									
12:20	6/28/2023	S	1	PH02	3	0.5'						X									
12:30	6/28/2023	S	1	PH02	4	1.5'						X									
12:40	6/28/2023	S	1	PH03	5	0.5'						X									
12:50	6/28/2023	S	1	PH03	6	2'						X									
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">   Michelle Gonzales </div> <div style="text-align: center;">   Andrew Russo </div> </div>																					
<b>Additional Instructions:</b>																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
		06/29/23		1445				6-29-23		1445		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
		6-29-23		1700				6-29-23		1730											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C									
		6-29-23		2300				6/30/23		8:20		4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

## Envirotech Analytical Laboratory

Printed: 6/30/2023 10:36:08AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/30/23 08:20	Work Order ID:	E306236
Phone:	(539) 573-4018	Date Logged In:	06/29/23 17:08	Logged In By:	Caitlin Mars
Email:	jhernandez@ensolum.com	Due Date:	07/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date

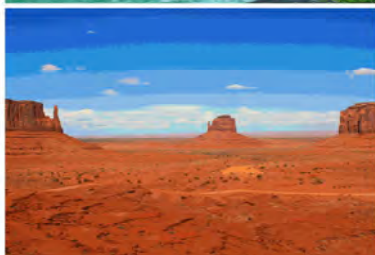


envirotech Inc.



Report to:

Joseph Hernandez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E306235

Job Number: 01058-0007

Received: 6/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/10/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 7/10/23

Joseph Hernandez  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 16-9H  
Workorder: E306235  
Date Received: 6/30/2023 8:20:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/30/2023 8:20:00AM, under the Project Name: RDX 16-9H.

The analytical test results summarized in this report with the Project Name: RDX 16-9H 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 07/10/23 15:14
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 0.5'	E306235-01A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH04 1'	E306235-02A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH05 0.5'	E306235-03A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH05 1'	E306235-04A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH06 0.5'	E306235-05A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH06 1'	E306235-06A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 3:14:50PM

PH04 0.5'

E306235-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
Surrogate: n-Nonane	117 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	247	20.0	1	07/05/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 3:14:50PM
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PH04 1'

E306235-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326082	
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327032	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	214	20.0	1	07/05/23	07/07/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 3:14:50PM

PH05 0.5'

E306235-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	184	20.0	1	07/05/23	07/07/23	





Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 3:14:50PM
--	--	----------------------------------

PH05 1'

E306235-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	472	20.0	1	07/05/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 3:14:50PM
--	--	----------------------------------

PH06 0.5'

E306235-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326082	
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327032	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	200	20.0	1	07/05/23	07/07/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 3:14:50PM

## PH06 1'

## E306235-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Benzene	ND	0.0250	1	06/30/23	07/06/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/06/23	
Toluene	ND	0.0250	1	06/30/23	07/06/23	
o-Xylene	ND	0.0250	1	06/30/23	07/06/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/06/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326082
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		06/30/23	07/06/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	462	20.0	1	07/05/23	07/07/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 3:14:50PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326082-BLK1) Prepared: 06/30/23 Analyzed: 07/06/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

LCS (2326082-BS1) Prepared: 06/30/23 Analyzed: 07/06/23

Benzene	4.94	0.0250	5.00		98.7	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.86	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		97.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2326082-MS1) Source: E306232-04 Prepared: 06/30/23 Analyzed: 07/06/23

Benzene	4.92	0.0250	5.00	ND	98.4	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	61-133			
Toluene	4.92	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.9	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			

Matrix Spike Dup (2326082-MSD1) Source: E306232-04 Prepared: 06/30/23 Analyzed: 07/06/23

Benzene	5.18	0.0250	5.00	ND	104	54-133	5.15	20	
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133	5.95	20	
Toluene	5.18	0.0250	5.00	ND	104	61-130	5.32	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	5.37	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	5.89	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	5.71	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 3:14:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326082-BLK1) Prepared: 06/30/23 Analyzed: 07/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS (2326082-BS2) Prepared: 06/30/23 Analyzed: 07/06/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			

Matrix Spike (2326082-MS2) Source: E306232-04 Prepared: 06/30/23 Analyzed: 07/06/23

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2326082-MSD2) Source: E306232-04 Prepared: 06/30/23 Analyzed: 07/06/23

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	3.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 3:14:50PM

Nonhalogenated Organics 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
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Blank (2327032-BLK1)					Prepared: 07/06/23 Analyzed: 07/07/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			

LCS (2327032-BS1)					Prepared: 07/06/23 Analyzed: 07/07/23				
Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike (2327032-MS1)					Source: E306237-07		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	369	25.0	250	76.9	117	38-132			
Surrogate: n-Nonane	56.9		50.0		114	50-200			

Matrix Spike Dup (2327032-MSD1)					Source: E306237-07		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	317	25.0	250	76.9	96.1	38-132	15.1	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 3:14:50PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2327018-BLK1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	ND	20.0							
LCS (2327018-BS1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2327018-MS1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	427	20.0	250	153	110	80-120			
Matrix Spike Dup (2327018-MSD1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	418	20.0	250	153	106	80-120	2.14	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

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/10/23 15:14

- 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.



## Project Information

## Chain of Custody

Page 1 of 1

Client: WPX Energy Permian LLC.				<b>Bill To</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>EPA Program</b>					
Project: RDX 16-9H				Attention: Jim Raley				Lab WO# E306235				Job Number 01058-0007				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Joseph Hernandez				Address: 5315 Buena Vista Dr.															5 day TAT		
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220																	
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502																	
Phone: (281) 702-2329				Email: jim.raley@dv.com																	
Email: Devon-team@etechenv.com				WBS/WO: 21191055																	
Collected by: Edyte Konan				Incident ID: nAPP2316445941																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRC/DIC/DIC by 8015	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0		BDOC NIM	GDOC TX							
13:00	6/28/2023	S	1	PH04	1	0.5'							X								
13:10	6/28/2023	S	1	PH04	2	1'							X								
13:20	6/28/2023	S	1	PH05	3	0.5'							X								
13:30	6/28/2023	S	1	PH05	4	1'							X								
13:40	6/28/2023	S	1	PH06	5	0.5'							X								
13:50	6/28/2023	S	1	PH06	6	1'							X								
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.											
Sampled by:																					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only					
[Signature]				06/29/23		1445		[Signature]				6-29-23		1445		Received on ice: [Signature] N					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3					
[Signature]				6-29-23		1700		[Signature]				6-29-23		1730							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C					
[Signature]				6-29-23		2300		[Signature]				6/30/23		8:20		4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

## Envirotech Analytical Laboratory

Printed: 6/30/2023 10:29:16AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/30/23 08:20	Work Order ID:	E306235
Phone:	(539) 573-4018	Date Logged In:	06/29/23 17:06	Logged In By:	Caitlin Mars
Email:	jhernandez@ensolum.com	Due Date:	07/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:

Joseph Hernandez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E306234

Job Number: 01058-0007

Received: 6/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/10/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 7/10/23



Joseph Hernandez  
5315 Buena Vista Dr  
Carlsbad, NM 88220

Project Name: RDX 16-9H  
Workorder: E306234  
Date Received: 6/30/2023 8:20:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/30/2023 8:20:00AM, under the Project Name: RDX 16-9H.

The analytical test results summarized in this report with the Project Name: RDX 16-9H 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**Lynn Jarboe**  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 07/10/23 14:12
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 0.5'	E306234-01A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH07 1'	E306234-02A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH08 0.5'	E306234-03A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH08 1'	E306234-04A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH09 0.5'	E306234-05A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
PH09 1'	E306234-06A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.





## Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	<b>Reported:</b> 7/10/2023 2:12:12PM
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PH07 0.5'

E306234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.6 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2327031	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>	90.9 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	153	20.0	1	07/05/23	07/06/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 2:12:12PM

PH07 1'

E306234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326079
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326079
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/07/23	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		07/06/23	07/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	122	20.0	1	07/05/23	07/06/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 2:12:12PM
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PH08 0.5'

E306234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327031	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
	92.1 %	50-200		07/06/23	07/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	144	20.0	1	07/05/23	07/06/23	



## Sample Data

WPX Energy - Carlsbad  
5315 Buena Vista Dr  
Carlsbad NM, 88220

Project Name: RDX 16-9H  
Project Number: 01058-0007  
Project Manager: Joseph Hernandez

**Reported:**  
7/10/2023 2:12:12PM

PH08 1'

E306234-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326079
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326079
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327031
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
	94.9 %	50-200		07/06/23	07/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327018
Chloride	119	20.0	1	07/05/23	07/06/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 7/10/2023 2:12:12PM
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PH09 0.5'

E306234-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327031	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
	93.9 %	50-200		07/06/23	07/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	101	20.0	1	07/05/23	07/06/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	<b>Reported:</b> 7/10/2023 2:12:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	

PH09 1'

E306234-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Benzene	ND	0.0250	1	06/30/23	07/01/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/01/23	
Toluene	ND	0.0250	1	06/30/23	07/01/23	
o-Xylene	ND	0.0250	1	06/30/23	07/01/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/01/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		06/30/23	07/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2327031	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
	95.1 %	50-200		07/06/23	07/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2327018	
Chloride	89.0	20.0	1	07/05/23	07/06/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:12:12PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326079-BLK1)

Prepared: 06/30/23 Analyzed: 06/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			

LCS (2326079-BS1)

Prepared: 06/30/23 Analyzed: 06/30/23

Benzene	4.90	0.0250	5.00		98.1	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130			
Toluene	4.86	0.0250	5.00		97.3	70-130			
o-Xylene	4.80	0.0250	5.00		96.1	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.3	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike (2326079-MS1)

Source: E306230-03

Prepared: 06/30/23 Analyzed: 06/30/23

Benzene	4.97	0.0250	5.00	ND	99.5	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	96.9	61-133			
Toluene	4.94	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.84	0.0500	10.0	ND	98.4	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2326079-MSD1)

Source: E306230-03

Prepared: 06/30/23 Analyzed: 06/30/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	1.66	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133	1.52	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	1.53	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	1.48	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.61	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	1.57	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			





QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:12:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326079-BLK1) Prepared: 06/30/23 Analyzed: 06/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

LCS (2326079-BS2) Prepared: 06/30/23 Analyzed: 06/30/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike (2326079-MS2) Source: E306230-03 Prepared: 06/30/23 Analyzed: 06/30/23

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			

Matrix Spike Dup (2326079-MSD2) Source: E306230-03 Prepared: 06/30/23 Analyzed: 06/30/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.7	70-130	0.521	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:12:12PM

Nonhalogenated Organics 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
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Blank (2327031-BLK1)					Prepared: 07/06/23 Analyzed: 07/07/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2327031-BS1)					Prepared: 07/06/23 Analyzed: 07/07/23				
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

Matrix Spike (2327031-MS1)					Source: E306233-05		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

Matrix Spike Dup (2327031-MSD1)					Source: E306233-05		Prepared: 07/06/23 Analyzed: 07/07/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	9.67	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/10/2023 2:12:12PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2327018-BLK1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	ND	20.0							
LCS (2327018-BS1)					Prepared: 07/05/23 Analyzed: 07/06/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2327018-MS1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	427	20.0	250	153	110	80-120			
Matrix Spike Dup (2327018-MSD1)					Source: E306234-01		Prepared: 07/05/23 Analyzed: 07/06/23		
Chloride	418	20.0	250	153	106	80-120	2.14	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

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/10/23 14:12

- 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.



### Project Information

### Chain of Custody

Page 1 of 1

<b>Client:</b> WPX Energy Permian LLC.				<b>Bill To</b>		<b>Lab Use Only</b>				<b>TAT</b>				<b>EPA Program</b>	
<b>Project:</b> RDX 16-9H				<b>Attention:</b> Jim Raley		<b>Lab WO#</b>	<b>Job Number</b>			<b>1D</b>	<b>2D</b>	<b>3D</b>	<b>Standard</b>	<b>CWA</b>	<b>SDWA</b>
<b>Project Manager:</b> Joseph Hernandez				<b>Address:</b> 5315 Buena Vista Dr.		<b>F360234</b>			<b>Q058-0007</b>			<b>5 day TAT</b>			
<b>Address:</b> 13000 W County Rd 100				<b>City, State, Zip:</b> Carlsbad, NM, 88220											<b>RCRA</b>
<b>City, State, Zip:</b> Odessa, TX, 79765				<b>Phone:</b> 575-885-7502		<b>Analysis and Method</b>									
<b>Phone:</b> (281) 702-2329				<b>Email:</b> jim.raley@dv.com											
<b>Email:</b> Devon-team@etechev.com				<b>WBS/WO:</b> 21191055											
<b>Collected by:</b> Edyte Konan				<b>Incident ID:</b> nAPP2316445941											<b>State</b>
															<b>NM CO UT AZ TX</b>
															<b>Remarks</b>

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GR0/DHO/DHO by B015	BTEX by B021	VOC by B260	Metal 6010	Chloride 300.0	BGDOC	NM	GDGC TX	Remarks
14:00	6/28/2023	S	1	PH07	1	0.5'						X			
14:10	6/28/2023	S	1	PH07	2	1'						X			
14:20	6/28/2023	S	1	PH08	3	0.5'						X			
14:30	6/28/2023	S	1	PH08	4	1'						X			
14:40	6/28/2023	S	1	PH09	5	0.5'						X			
14:50	6/28/2023	S	1	PH09	6	1'						X			

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

**Relinquished by:** *[Signature]*      Date: *06/29/23*      Time: *1445*      Received by: *(Signature)*      Date: *6-29-23*      Time: *1445*

**Relinquished by:** *(Signature)*      Date: *6-29-23*      Time: *1700*      Received by: *(Signature)*      Date: *6-29-23*      Time: *1730*

**Relinquished by:** *(Signature)*      Date: *6-29-23*      Time: *2300*      Received by: *(Signature)*      Date: *6/30/23*      Time: *8:20*

**Sample Matrix:** S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other \_\_\_\_\_      **Container Type:** g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Notes:** Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Envirotech Analytical Laboratory

Printed: 6/30/2023 10:17:47AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/30/23 08:20	Work Order ID:	E306234
Phone:	(539) 573-4018	Date Logged In:	06/29/23 17:04	Logged In By:	Caitlin Mars
Email:	jhernandez@ensolum.com	Due Date:	07/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

---

## APPENDIX G

### NMOCD Notifications



**Erick Herrera**

---

**From:** Joseph Hernandez  
**Sent:** Thursday, June 29, 2023 5:10 PM  
**To:** Devon-Team  
**Subject:** FW: [EXTERNAL] FW: (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

**Joseph S. Hernandez**  
Senior Managing Geologist



Work: (432) 305-6413  
Cell: (281) 702-2329

---

**From:** Knight, Tami C. <tknight@slo.state.nm.us>  
**Sent:** Thursday, June 29, 2023 5:09 PM  
**To:** Raley, Jim <Jim.Raley@dmv.com>  
**Cc:** Joseph Hernandez <joseph@etechenv.com>  
**Subject:** RE: [EXTERNAL] FW: (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

You don't often get email from [tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us). [Learn why this is important](#)

Perfect. Thank you for the information.

**Tami Knight, CHMM**

*Environmental Specialist*  
*SRD-Environmental*  
*Compliance Office (ECO)*  
505.670.1638  
New Mexico State Land Office  
1300 W. Broadway Avenue, Suite A  
Bloomfield, NM 87413  
[tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us)  
[nmstatelands.org](http://nmstatelands.org)  
.....



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---

**From:** Raley, Jim <[Jim.Raley@dvn.com](mailto:Jim.Raley@dvn.com)>  
**Sent:** Thursday, June 29, 2023 4:00 PM  
**To:** Knight, Tami C. <[tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us)>  
**Cc:** Joseph Hernandez <[joseph@etechenv.com](mailto:joseph@etechenv.com)>  
**Subject:** RE: [EXTERNAL] FW: (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

Tami,

This release occurred in 2016. I am not sure if it was reported to SLO, at the time or if any system was in place to report to SLO. It was reported to NMOCD and never received closure. We are currently investigating the site to determine if additional remediation is required to close this incident out with NMOCD, and we will be collecting samples as part of that process. This is the reason for the notification.

Please see attached C-141 for this incident. Please give me a call if you have any concerns.

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



---

**From:** Joseph Hernandez <[joseph@etechenv.com](mailto:joseph@etechenv.com)>  
**Sent:** Thursday, June 29, 2023 3:27 PM  
**To:** Raley, Jim <[Jim.Raley@dvn.com](mailto:Jim.Raley@dvn.com)>  
**Subject:** [EXTERNAL] FW: (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

Jim,

We got this response from after sending the sampling notification. Can you confirm if this was reported to ECO/SLO

**Joseph S. Hernandez**  
Senior Managing Geologist



Work: (432) 305-6413  
Cell: (281) 702-2329

---

**From:** Knight, Tami C. <[tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us)>  
**Sent:** Wednesday, June 28, 2023 7:09:17 PM  
**To:** Erick Herrera <[erick@etechenv.com](mailto:erick@etechenv.com)>  
**Subject:** RE: (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

You don't often get email from [tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us). [Learn why this is important](#)

ECO Barbados State #001 SWD has not been previously reported to ECO. Is this a release that WPX has been working on with NMSLO Water Bureau?

Thank you

Tami Knight, CHMM  
Environmental Specialist  
SLO Surface ECO  
Mobile: (505) 670-1638  
[tknight@slo.state.nm.us](mailto:tknight@slo.state.nm.us)



---

**From:** Erick Herrera <[erick@etechenv.com](mailto:erick@etechenv.com)>  
**Sent:** Thursday, June 22, 2023 2:57 PM  
**To:** [OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov); SLO Spills <[spills@slo.state.nm.us](mailto:spills@slo.state.nm.us)>  
**Cc:** Raley, Jim <[jim.rale@dmv.com](mailto:jim.rale@dmv.com)>; Devon-Team <[Devon-Team@etechenv.com](mailto:Devon-Team@etechenv.com)>  
**Subject:** [EXTERNAL] (WPX Site Sampling Notification) RDX 16-9H (nAPP2316445941) 6-08-2023 & Barbados State #001 SWD (nAB1619656595) 6-28-2016

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between June 27 – June 30, 2023:

Site Name: RDX 16 #009  
Incident Number: nAPP2316445941  
API: 30-015-39752

Site Name: Barbados State Barbados State #001 SWD  
Incident Number: nAB1619656595  
API: 30-015-27558

Thank you,

**Erick Herrera**  
Staff Geologist



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

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**District IV**  
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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

QUESTIONS  
  
Action 318925

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	318925
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2316445941
Incident Name	NAPP2316445941 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX 16 #009
Date Release Discovered	06/08/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 3 BBL   Recovered: 1 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 50 BBL   Recovered: 0 BBL   Lost: 50 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 318925

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	318925
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 02/29/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 318925

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 318925
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	14600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	872
GRO+DRO (EPA SW-846 Method 8015M)	378
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/28/2023
On what date will (or did) the final sampling or liner inspection occur	01/17/2024
On what date will (or was) the remediation complete(d)	01/17/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5008
What is the estimated volume (in cubic yards) that will be remediated	40

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 318925

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	318925
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 02/29/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

**District I**  
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QUESTIONS, Page 5  
  
Action 318925

QUESTIONS (continued)

Operator:  WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	318925
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

**District I**

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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 318925

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	318925
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	302172
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
What was the (estimated) number of samples that were to be gathered	43
What was the sampling surface area in square feet	5008

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5008
What was the total volume (cubic yards) remediated	40
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The impacted soils meet Site Closure Criteria but do not meet reclamation standards in the area needed for production operations. Impacted soil will be removed to reclamation standards at facility deconstruction.

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 02/29/2024
--	---

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**District III**  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 318925

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 318925
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 318925

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	318925
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316445941 RDX 16 #009, thank you. This Remediation Closure Report is approved.	4/25/2024