



New Mexico Oil Conservation Division
506 W. Texas Ave
Artesia, NM 88210

RE: Deferral Request Addendum Cover Letter
WPX Energy Permian, LLC
RDX 16 #009
Incident Number nAPP2317840368 and nAPP2322658221
Eddy County, New Mexico

To Whom It May Concern:

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Deferral Request Addendum Cover Letter (DRACL) to document that No Further Action (NFA) is warranted for two inadvertent releases of crude oil and produced water at the RDX 16 #009 (Site) (**Figure 1** in **Appendix A**) assigned Incident Numbers nAPP2317840368 and nAPP2322658221, based on previous remediation efforts and additional confirmation soil samples collected as requested. WPX is requesting to defer residual impacted soil within an earthen bermed tank battery containment (EBTBC) and NFA until the Site undergoes major deconstruction or plugging and abandonment (P&A), which ever comes first.

This DRACL is being submitted to present additional data following a rejection of a previous Deferral Request Report (DRR) for Incident Numbers nAPP2317840368 and nAPP2322658221. The DRR, which was submitted on June 3, 2024, detailed the corrective actions that were completed to address the two inadvertent releases, but was denied on June 7, 2024, by the New Mexico Oil Conservation Division (NMOCD) for the following reason(s):

- *"Deferral denied. Per the remediation plan approved on 3/7/2024, the off-pad area which contains FS10-FS15 was to be excavated to at least 4', pursuant to 19.15.29.13 NMAC. FS10 and FS11 are off pad and need to be remediated to 4'. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. The deferral request must specify which sample points are being requested for deferral including an explanation why the contaminants can't be removed. Resubmit report to the OCD by 8/6/2024."*

On July 2, 2024, Etech collected 5-point composite confirmation excavation soil samples as requested by the NMOCD (FS10A and FS11A) at 0.5-feet below ground surface (bgs) and (FS11A and FS11B) at 4-feet via hand auger. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed 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, Inc. in Farmington New Mexico, for analysis of the Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) by Method Environmental Protection Agency (EPA) 8021B, TPH (Total Petroleum Hydrocarbon) by Method EPA 8015 M/D and chloride by Method EPA 300.0. The locations of the additional confirmation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of confirmation soil sampling activities is included in **Appendix B**.

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

Based on laboratory analytical results for the additional confirmation soil samples, WPX believes that residual soil impacts associated with the two inadvertent releases have been excavated to the



Maximum Extent Practical (MEP) and removed from the Site. The MEP was excavated surrounding all surface/and or subsurface pipelines and production equipment adhering to WPX's safety precautions and encroachment guidelines to ensure the health and safety of on-site personnel for structural integrity of utilities. In all areas where excavation was not limited, residual impacts were removed in accordance with the applicable Site Closure Criteria. As a result, WPX is requesting deferral of final remediation for delineation soil samples (PH01 through PH03) and confirmation excavation soil samples (FS18 through FS28), due to the presence of active production equipment, preventing the full excavation of residual impacted soil (**Figure 3 in Appendix A**). Residual impacts appear to solely reside below the EBTBC up to 6 feet bgs based on delineation soil samples collected near PH01 at 6 feet bgs, 4 feet bgs collected near PH02 and 2 feet bgs collected near PH03.

WPX believes the timely initial response and other completed remedial actions completed have mitigated immediate impacts at the Site and meet the Deferral requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater. WPX does not believe deferment will result in imminent risk to human health, the environment or groundwater. Impacted soil is shallow within the EBTBC, where depth to groundwater was determined to be greater than 100 feet bgs. As such, NFA appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD until the Site undergoes major deconstruction or P&A activities, whichever comes first. **Appendix E** provides current correspondence email notification receipts associated with the subject release. All field data and summaries can be referenced in the DRR provided in **Appendix F**.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera (432) 305-6416 or erick@etechenv.com.

Sincerely,
Etech Environmental and Safety Solutions, Inc.

A handwritten signature in black ink that reads "Erick Herrera".

Erick Herrera
Project Geologist

A handwritten signature in black ink that reads "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, Devon Energy
New Mexico Oil Conservation Division

Appendices:

- Appendix A:** Figure 1: Site Location Map
Figure 2: Confirmation Soil Sample Locations
Figure 3: Deferral Request
- Appendix B:** Photographic Log
- Appendix C:** Table
- Appendix D:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E:** Email Notifications
- Appendix F:** Archived Reports

APPENDIX A

Figures

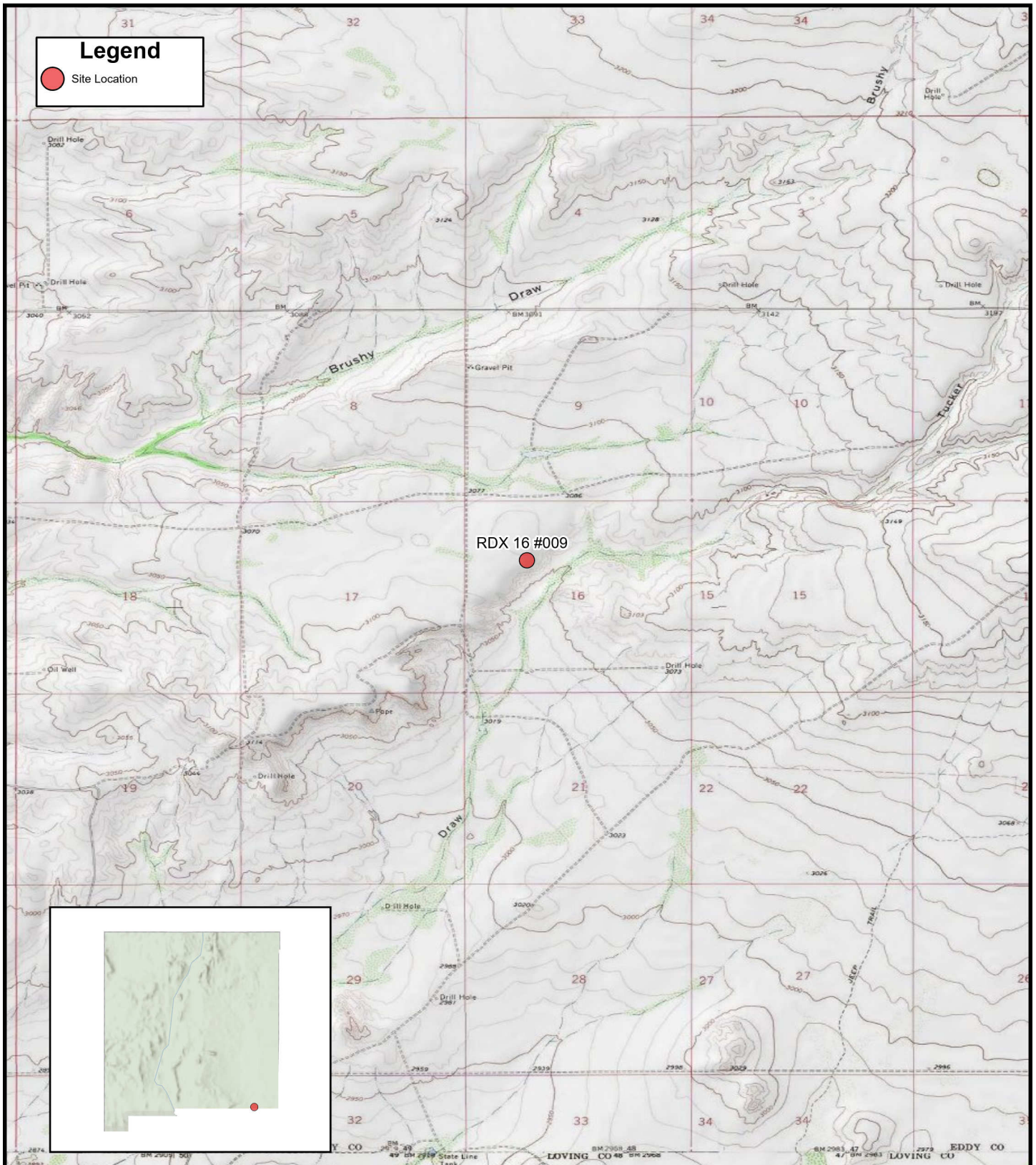


FIGURE 1

Site Location Map

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

eTECH



0 2,000 4,000 Feet

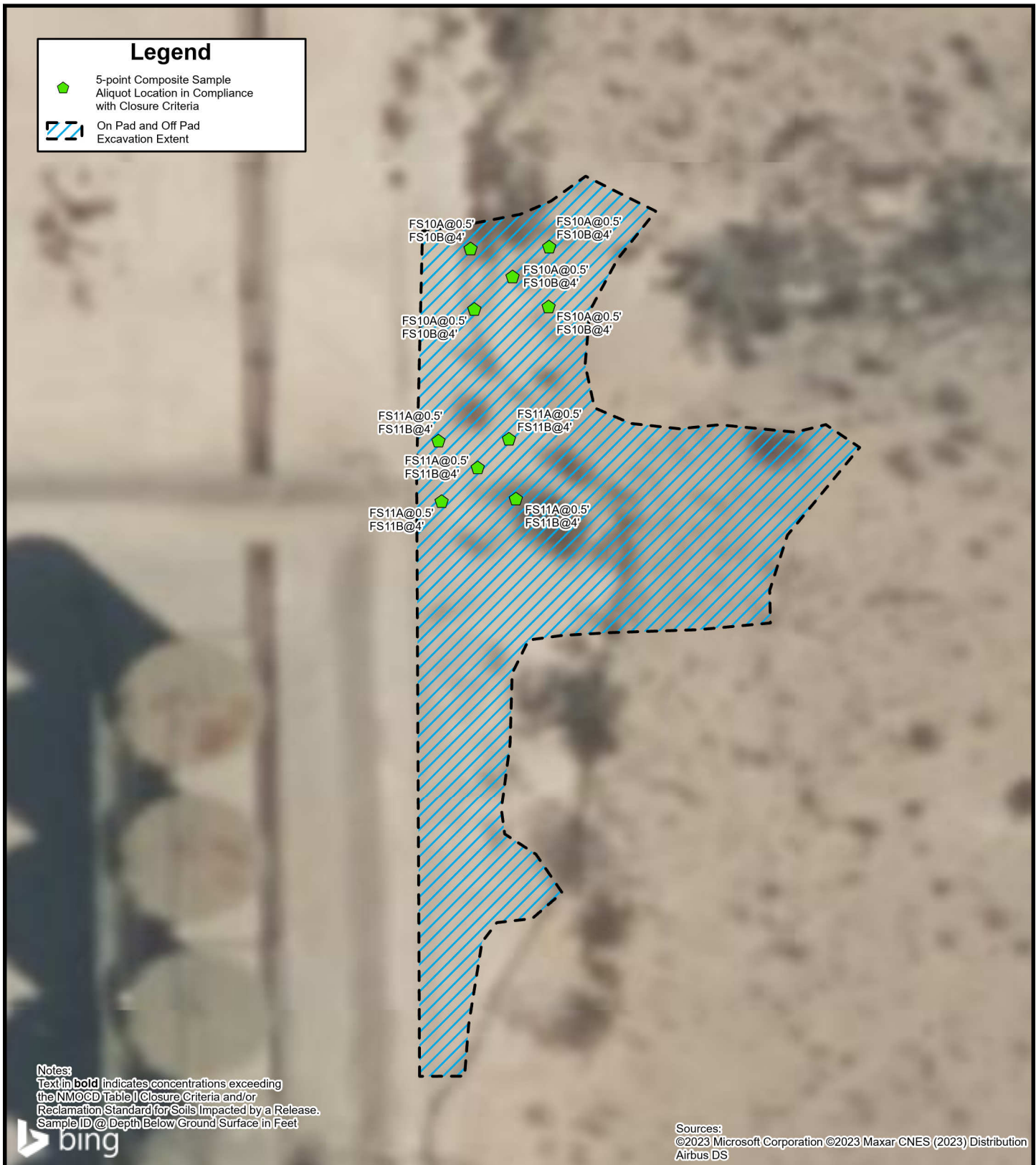


FIGURE 2

Confirmation Soil Sample Locations

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

eTECH



0 9.5 19 Feet

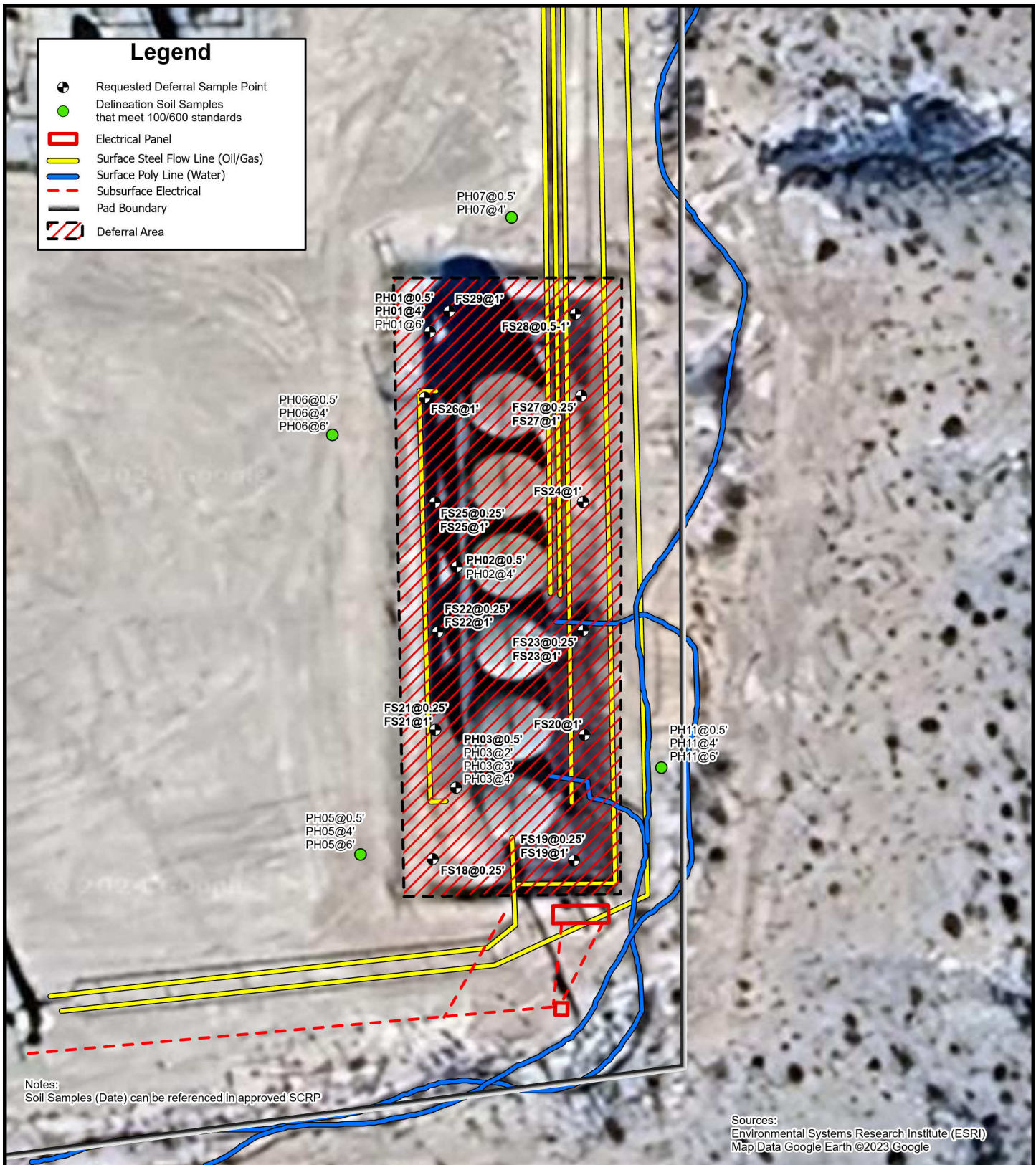


FIGURE 3

Deferral Area

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

eTECH



0 18.5 37 Feet

APPENDIX B

Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

Incident Numbers nAPP2317840368 and nAPP2322658221

**Photograph 1****Date: 07/02/2024**

Description: Southwest view of confirmation sampling activities.

**Photograph 2****Date: 07/02/2024**

Description: Southeastern view of confirmation sampling activities.

**Photograph 3****Date: 07/02/2024**

Description: Northeastern view of confirmation sampling activities.

**Photograph 4****Date: 07/02/2024**

Description: Northern view of confirmation sampling activities.

APPENDIX C

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 Numbers nAPP2317840368 & nAPP2322658221										
FS10A	07/02/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	295
FS10B	07/02/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	370
FS11A	07/02/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	314
FS11B	07/02/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	298

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 † for Soils Impacted by a Release

† 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.

APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

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



Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E407041

Job Number: 01058-0007

Received: 7/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

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: 7/11/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #009
Workorder: E407041
Date Received: 7/8/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/8/2024 10:00:00AM, 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 07/11/24 15:47
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS10A 0.5'	E407041-01A	Soil	07/02/24	07/08/24	Glass Jar, 2 oz.
FS10B 4'	E407041-02A	Soil	07/02/24	07/08/24	Glass Jar, 2 oz.
FS11A 0.5'	E407041-03A	Soil	07/02/24	07/08/24	Glass Jar, 2 oz.
FS11B 4'	E407041-04A	Soil	07/02/24	07/08/24	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: Anna Byers	Reported: 7/11/2024 3:47:13PM
--------------------------------------------------------------------	----------------------------------------------------------------------------------------	----------------------------------

FS10A 0.5'
E407041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2428035	
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	93.4 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2428035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	93.4 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2428028	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane	102 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428037	
Chloride	295	20.0	1	07/09/24	07/09/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/11/2024 3:47:13PM

FS10B 4'

E407041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.1 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.1 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane	100 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	370	20.0	1	07/09/24	07/09/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/11/2024 3:47:13PM

FS11A 0.5'
E407041-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.6 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.6 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane	97.8 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	314	20.0	1	07/09/24	07/09/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/11/2024 3:47:13PM

FS11B 4'

E407041-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.8 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8	92.8 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane	101 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	298	20.0	1	07/09/24	07/09/24	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/11/2024 3:47:13PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2428035-BLK1) Prepared: 07/09/24 Analyzed: 07/09/24

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	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			

LCS (2428035-BS1) Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.45	0.0250	2.50		97.9	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

Matrix Spike (2428035-MS1) Source: E407038-04 Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.75	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.42	0.0250	2.50	ND	96.7	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.475		0.500		95.0	70-130			

Matrix Spike Dup (2428035-MSD1) Source: E407038-04 Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.80	0.0250	2.50	ND	112	48-131	1.50	23	
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	3.91	27	
Toluene	2.49	0.0250	2.50	ND	99.7	48-130	3.06	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	5.62	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	5.59	27	
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135	5.60	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	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:	Anna Byers	7/11/2024 3:47:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2428035-BLK1)					Prepared: 07/09/24 Analyzed: 07/09/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			

LCS (2428035-BS2)					Prepared: 07/09/24 Analyzed: 07/09/24				
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

Matrix Spike (2428035-MS2)					Source: E407038-04	Prepared: 07/09/24 Analyzed: 07/09/24			
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			

Matrix Spike Dup (2428035-MSD2)					Source: E407038-04	Prepared: 07/09/24 Analyzed: 07/09/24			
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.45	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	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:	Anna Byers	7/11/2024 3:47:13PM

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 (2428028-BLK1)					Prepared: 07/09/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			

LCS (2428028-BS1)					Prepared: 07/09/24 Analyzed: 07/10/24				
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	63.5		50.0		127	50-200			

Matrix Spike (2428028-MS1)					Source: E407038-04		Prepared: 07/09/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2428028-MSD1)					Source: E407038-04		Prepared: 07/09/24 Analyzed: 07/10/24		
Diesel Range Organics (C10-C28)	296	25.0	250	ND	119	38-132	0.669	20	
Surrogate: n-Nonane	58.3		50.0		117	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:	Anna Byers	7/11/2024 3:47:13PM

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 (2428037-BLK1)					Prepared: 07/09/24 Analyzed: 07/09/24				
Chloride	ND	20.0							
LCS (2428037-BS1)					Prepared: 07/09/24 Analyzed: 07/09/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2428037-MS1)					Source: E407038-04		Prepared: 07/09/24 Analyzed: 07/09/24		
Chloride	373	20.0	250	120	101	80-120			
Matrix Spike Dup (2428037-MSD1)					Source: E407038-04		Prepared: 07/09/24 Analyzed: 07/09/24		
Chloride	377	20.0	250	120	103	80-120	0.933	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:	Anna Byers	07/11/24 15:47

- 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.

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: Anna Byers					Address: 5315 Buena Vista Dr.		E 407041		01058-0007		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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM	GDOC TX	State					
Phone: 432-305-6415					Email: jim.raley@divn.com												NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21191055																	
					Incident ID: nAPP2322658221, nAPP2317840368																	
Collected by: Edyte Konan																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																
13:30	07.02.24	S	1	FS10A	1	0.5'									X							
14:00	07.02.24	S	1	FS10B	2	4'									X							
14:30	07.02.24	S	1	FS11A	3	0.5'									X							
15:00	07.02.24	S	1	FS11B	4	4'									X							
07/03/2024																						
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 6 °C on subsequent days.												
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only				
[Signature]					07/03/24		07:00		[Signature]					7-3-24		0700		Received on ice: Y / N				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 T2 T3				
[Signature]					7-3-24		1600		[Signature]					7-3-24		1600						
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C				
[Signature]					7-3-24		2200		[Signature]					7-8-24		1000		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: 7/9/2024 4:55:41PM

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:	07/08/24 10:00	Work Order ID:	E407041
Phone:	(539) 573-4018	Date Logged In:	07/08/24 16:46	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	07/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
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: CouierComments/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? No

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 E

Email Notifications

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, June 12, 2024 12:18 PM
To: Anna Byers
Cc: Devon-Team; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Deferral Request Denials for Incident Numbers nAPP2317840368 and nAPP2322658221 - WPX RDX 16 #009

Hi Anna,

You're welcome. Sounds great!

Shelly

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

From: Anna Byers <anna@etechenv.com>
Sent: Wednesday, June 12, 2024 11:14 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Deferral Request Denials for Incident Numbers nAPP2317840368 and nAPP2322658221 - WPX RDX 16 #009

Good morning Shelly,

Thank you for clarifying! We will schedule the soil sampling event and submit a report addendum with the soil samples collected at the corrected depths.

Best,

Anna Byers
Senior Geologist



Work: (432) 305-6415
Cell: (575) 200-6754

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, June 12, 2024 10:59 AM
To: Anna Byers <anna@etechenv.com>

Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Deferral Request Denials for Incident Numbers nAPP2317840368 and nAPP2322658221 - WPX RDX 16 #009

Good morning Anna,

Due to having two different standards for remediation (off pad reclamation standards and Table I dtgw >100 feet on pad), the samples can not be combined. Recollect the samples in question, collecting five point composite samples at the same depths, meaning recollect a sample at .25 feet depth on pad and the off pad samples at 4' depth. After, resubmit your deferral request by 8/6/2024.

Kind regards,

Shelly

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

From: Anna Byers <anna@etechenv.com>

Sent: Monday, June 10, 2024 9:33 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Deferral Request Denials for Incident Numbers nAPP2317840368 and nAPP2322658221 - WPX RDX 16 #009

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

Good morning,

On behalf of WPX Permian, LLC. (WPX), Etech Environmental and Safety Solutions (Etech) would like to address the reasons for the Deferral Request Report denials for Incident Numbers nAPP2317840368 and nAPP2322658221 at the RDX 16 #009 (Site). Incident Numbers nAPP2317840368 and nAPP2322658221 were denied by the NMOCD for the following reasons:

- **Deferral denied.** Per the remediation plan approved on 3/7/2024, (1) the off-pad area which contains FS10-FS15 was to be excavated to at least 4' which is pursuant to 19.15.29.13 NMAC. FS10 and FS11 are off pad and need to be remediated to 4'. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. (2) The deferral request must specify which sample points are being requested for deferral including an explanation why the contaminants can't be removed. Resubmit report to the OCD by 8/6/2024.

(1) The off-pad area associated with FS10 and FS11 was excavated to 4 feet below ground surface (bgs), however, the composite soil samples represented a portion of the shallower excavation located on pad in addition to the adjacent pasture excavation area, which was reflected in the excavation confirmation soil sample depths. The 4-foot excavation area in proximity of soil sampling locations FS10 and FS11 is shown in Photograph 3 of the Photolog in the denied Deferral Request Report. WPX requests that the NMOCD reconsiders that the excavation was advanced to a minimum of 4 feet bgs as outlined in the approved Remediation Plan based on photographic evidence provided in the report during sampling events and recognize that the depths of soil samples FS10 and FS11 were misleading due to the inclusion of a portion of the shallower excavation to the west.

(2) The requested Deferral Area was indicated on Figure 3 along with the delineation soil sampling locations from the approved Remediation Plan and supplementary delineation soil sampling locations presented in the denied Deferral Request Report, which designated the area within the earthen berm tank battery containment as the Deferral Area. As such, WPX is requesting deferral of all confirmation excavation soil samples collected within the earthen berm (FS18 through FS29) and delineation soil samples collected from the PH01 soil sampling location. WPX removed the Maximum Extent Practical (MEP) of residual impacts within the earthen berm, resulting in a greater depth than proposed in the approved Remediation Plan, which was limited by the congested presence of surface equipment and soil type. The excavation within the earthen berm tank battery containment was advanced manually due to the configuration of surface utilities, however, further soil removal beyond the existing 1-foot excavation would have presented the risk of destabilizing surface equipment and utilities. Considering the depth to groundwater and distances from other recognized sensitive receptors, WPX believes that impacts at the Site have been mitigated and meet the requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater.

As such, WPX requests NMOCD to reconsider the denial of the Deferral Request Report associated with Incident Numbers nAPP2317840368 and nAPP2322658221, and respectfully requests approval of the delineated Deferral Area that resides beneath the earthen berm tank battery containment.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415
Cell: (575) 200-6754

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 359042

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359042
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/26/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,062
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
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 359042

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359042
	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.	6/27/2024

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 359043

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359043
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322658221
Incident Name	NAPP2322658221 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	08/14/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,062
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
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 359043

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359043
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	6/27/2024

APPENDIX F

Archived Reports

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





DEFERRAL REQUEST REPORT

RDX 16 #009

Eddy County, New Mexico

Incident Numbers

nAPP2317840368

nAPP2322658221

Prepared for:

WPX Energy Permian, LLC.

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 Deferral Request Report (DRR) detailing excavation and soil sampling events conducted in accordance with an approved Site Characterization and Remediation Plan (SCRP) to address two inadvertent releases of crude oil and produced water at the RDX 16 #009 (Site). Based on the laboratory analytical results from recent soil sampling events, WPX is requesting to defer residual impacted soil within an earthen bermed tank battery containment (EBTBC) and No Further Action (NFA) until the Site undergoes major deconstruction or plugging and abandonment (P&A), whichever comes first.

SITE LOCATION AND 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**).

Incident Number nAPP2317840368

On June 26, 2023, it was discovered that a water transfer pump was inadvertently left off causing a release of approximately 50 barrels (bbls) of crude oil and 522 bbls of produced water within an EBTBC. Fluids escaped the containment and flowed onto the pad surface and adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 40 bbls of crude oil and 480 bbls of produced water. WPX immediately reported the release to Mike Bratcher and Rosa Romero from the New Mexico Oil Conservation Division (NMOCD) via email and on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 27, 2023, which was subsequently assigned Incident Number nAPP2317840368.

In July 2023, WPX conducted initial soil removal of impacted pad surfaces within and around the EBTBC. Further remediation to include pasture soils required an approved Right-of-Entry (ROE) permit prior to ground disturbance. As a result, on July 20, 2023, SWCA Environmental Consultants (SWCA) was retained to conduct a required cultural survey of the Site, which was completed on August 3, 2023. The ROE permit was submitted to the State Land Office (SLO) for review and approved on October 31, 2023.

Incident Number nAPP2322658221

On August 14, 2023, it was discovered that a breaker to a water transfer pump tripped during a power outage and caused a release of approximately 149 barrels bbls of produced water within the same EBTBC impacted by Incident Number nAPP2317840368. All fluids remained within the EBTBC. A vacuum truck was dispatched to the Site and recovered approximately 110 bbls of produced water. WPX immediately reported the release to Mike Bratcher and Rosa Romero from the NMOCD via email and on a Form C-141 on August 14, 2023, which was subsequently assigned Incident Number nAPP2322658221.

Due to the delay of land access caused by ROE permitting processes, an extension to complete remediation activities and prepare a report for both incidents was requested and granted by the NMOCD for December 23, 2023.

Etech prepared the SCRCP proposing corrective actions to address identified residual soil impacts exceeding the applicable Site Closure Criteria and/ or reclamation standard. The SCRCP was submitted to the NMOCD and approved on February 29, 2024, with the following conditions:

- *Variance request to collect confirmation sidewall and floor samples no more than 400 square feet is approved.*
- *Submit deferral request or remediation closure report to the OCD by June 4, 2024.*

Deferral Request Report
Incident Numbers nAPP2317840368 & nAPP2322658221
RDX 16 #009

pg. 1



SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved SCRP, the Site was characterized 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.

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 ¹
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/ 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B/ 8260B	50 mg/kg

¹The 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.

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 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. Referenced well records are provided as **Appendix B**.

EXCAVATION SOIL SAMPLING ACTIVITIES

During April 2, 2024, through May 15, 2024, Etech oversaw the excavation of identified impacts via mechanical equipment based on detailed corrective actions in the approved SCRP, laboratory analytical results associated with delineation soil sampling activities, and visual observation. As proposed, the excavation was vertically advanced to depths ranging between 0.25 feet and 5 feet below ground surface (bgs) and further driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples from the floors (labeled FS01 through FS29) and sidewalls (labeled SW01 through SW06) of the excavation at



the approved sampling frequency of 400 square feet. The composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed 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, Inc. in Farmington, New Mexico, for analysis of the COCs. Laboratory analytical results indicated one or more elevated COC concentrations present in multiple locations within the EBTBC and outside the containment at soil sampling locations FS02 and FS12.

On April 16, 2024, Etech resumed oversight of excavation activities to remove the residual soil impacts within proximity of FS02 and FS12 and to further advance the excavation within the EBTBC to the Maximum Extent Practical (MEP). Excavation activities associated with FS02 and FS12 were driven by field screening soil samples for VOCs and chloride, as previously described. The excavation within the EBTBC was advanced to the MEP (approximately 1-foot bgs) via hand digging to reduce the potential risk of structural destabilization of above-ground equipment, surface and subsurface lines or utilities while personnel were onsite to remediate the Site. Following additional soil removal, composite confirmation excavation soil samples were collected from the new excavation floors, handled, and analyzed as previously described. The locations of the final confirmation excavation soil samples are shown in **Figure 2** in **Appendix A**.

Approximately 740 cubic yards (CY) of residual impacted soil was removed from the Site and transported to R360 Red Bluff in Orla, Texas under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. Photographic documentation of all Site activities is included in **Appendix C**.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all final confirmation excavation soil samples collected outside of the EBTBC were below the applicable Site Closure Criteria and/ or reclamation standard.

Laboratory analytical results for soil samples collected from within the EBTBC (FS18 through FS29) indicated TPH-GRO + TPH-DRO and TPH concentrations exceeded the applicable Site Closure Criteria. Following the additional soil removal from within the containment, which was beyond the proposed depth of 2 to 3 inches in the SCRP, laboratory analytical results indicated an overall decrease in residual TPH concentrations for the final confirmation excavation soil samples. Residual impacts left in place within the containment are characterized by confirmation soil samples FS18 through FS29 with TPH concentrations ranging from 4,060 mg/kg to 17,400 mg/kg.

Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

DELINEATION SOIL SAMPLING ACTIVITIES

On April 16, 2024, Etech advanced one additional delineation pothole (PH15) to 4 feet bgs to assess the presence of impacts within the southern portion of the AOC, which was driven by field screening soil samples for VOCs and chloride, as previously described. Two delineation soil samples were collected from PH15, representing the highest observed field screening concentrations and the greatest depth. Soil samples were handled and analyzed as previously described. Field screening results and observations for delineation soil samples were recorded on a soil sampling log, which is included as **Appendix F**. The location of all delineation soil samples to date are displayed in **Figure 2** in **Appendix A**.



DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample PH15 indicated the concentrations of the COCs were below the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

DEFERRAL REQUEST

Based on laboratory analytical results from confirmation excavation and delineation soil sampling events, residual impacts associated with the AOC have been delineated, excavated to the MEP, and removed from the Site. The MEP was excavated surrounding all surface and/or subsurface pipelines and production equipment adhering to WPX's safety precautions and encroachment guidelines to ensure the health and safety of on-site personnel and for structural integrity of utilities. In all areas where excavation was not limited, residual impacts were removed in accordance with the applicable Site Closure Criteria. As a result, residual impacts appear to solely reside below the EBTBC up to 6 feet bgs (**Figure 3 in Appendix A**), which have been vertically and horizontally delineated by the fourteen potholes in the approved SCRP in conjunction with the excavation and delineation soil samples presented in this DRR. As such, WPX respectfully requests deferral of approximately 1,300 CY of residual impacted soil beneath the EBTBC until the Site undergoes major facility deconstruction or P&A, whichever comes first.

WPX believes the timely initial response mitigated impacts at the Site and that the completed corrective actions meet the requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater. NFA appears warranted at this time and Incident Numbers nAPP2317840368 and nAPP2322658221 should be respectfully considered for Deferral 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 or Gilbert Moreno at (832) 541-7719 or gilbert@etechenv.com. Documentation of correspondence and notifications regarding Incident Numbers nAPP2317840368 and nAPP2322658221 is presented as **Appendix G**. The approved SCRP may be referenced in **Appendix H**.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno
Project Geologist

Joseph S. Hernandez
Senior Managing Geologist

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

Deferral Request Report
Incident Numbers nAPP2317840368 & nAPP2322658221
RDX 16 #009

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Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map - Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2: Excavation and Delineation Soil Sample Locations

Figure 3: Deferral Area

Appendix B: Referenced Well Records

Appendix C: Photographic Log

Appendix D: Tables

Appendix E: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F: Soil Sampling Log

Appendix G: Correspondence & Notifications

Appendix H: Archived Reports

APPENDIX A

Figures

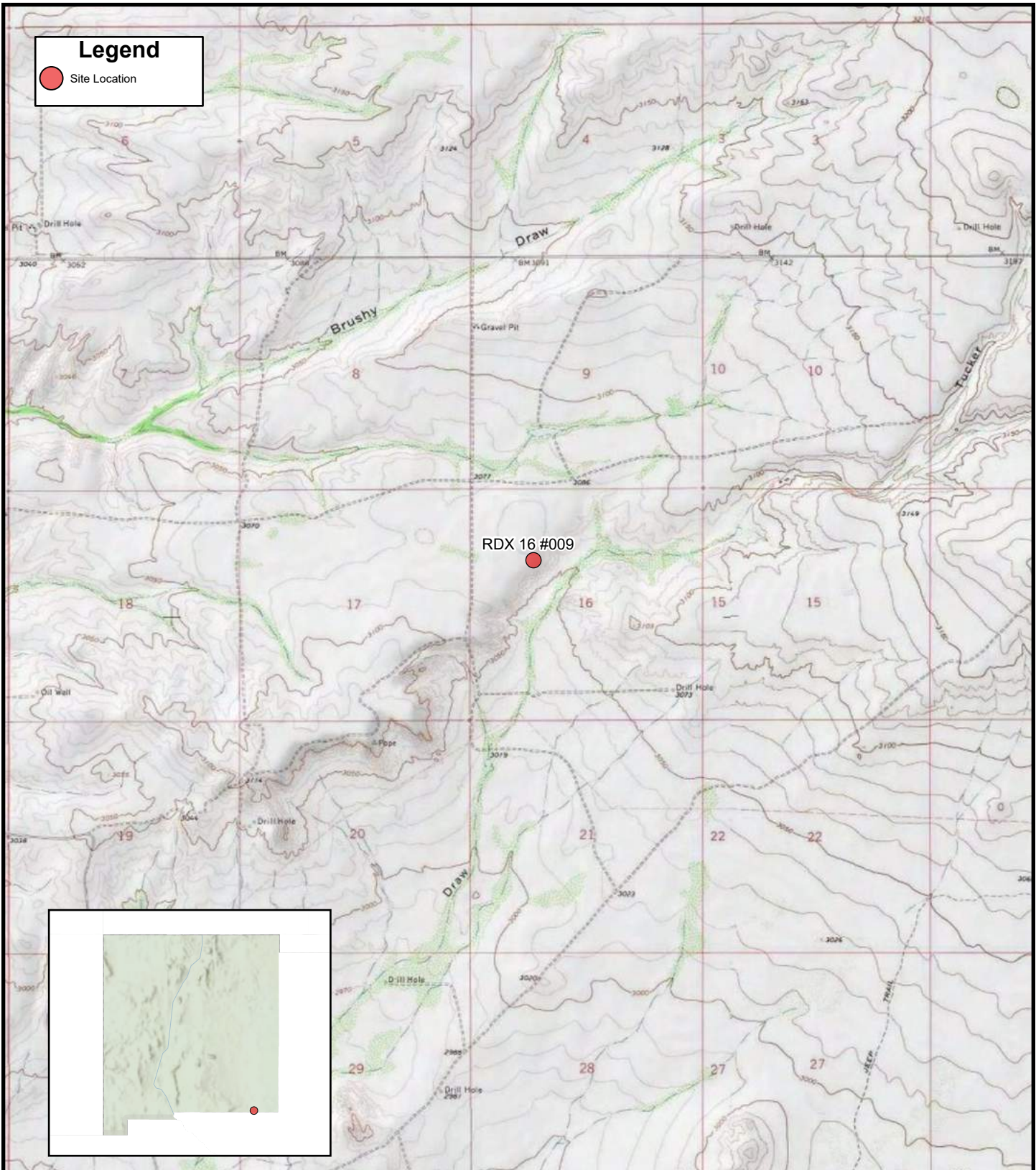


FIGURE 1

Site Location Map

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



0 2,000 4,000 Feet

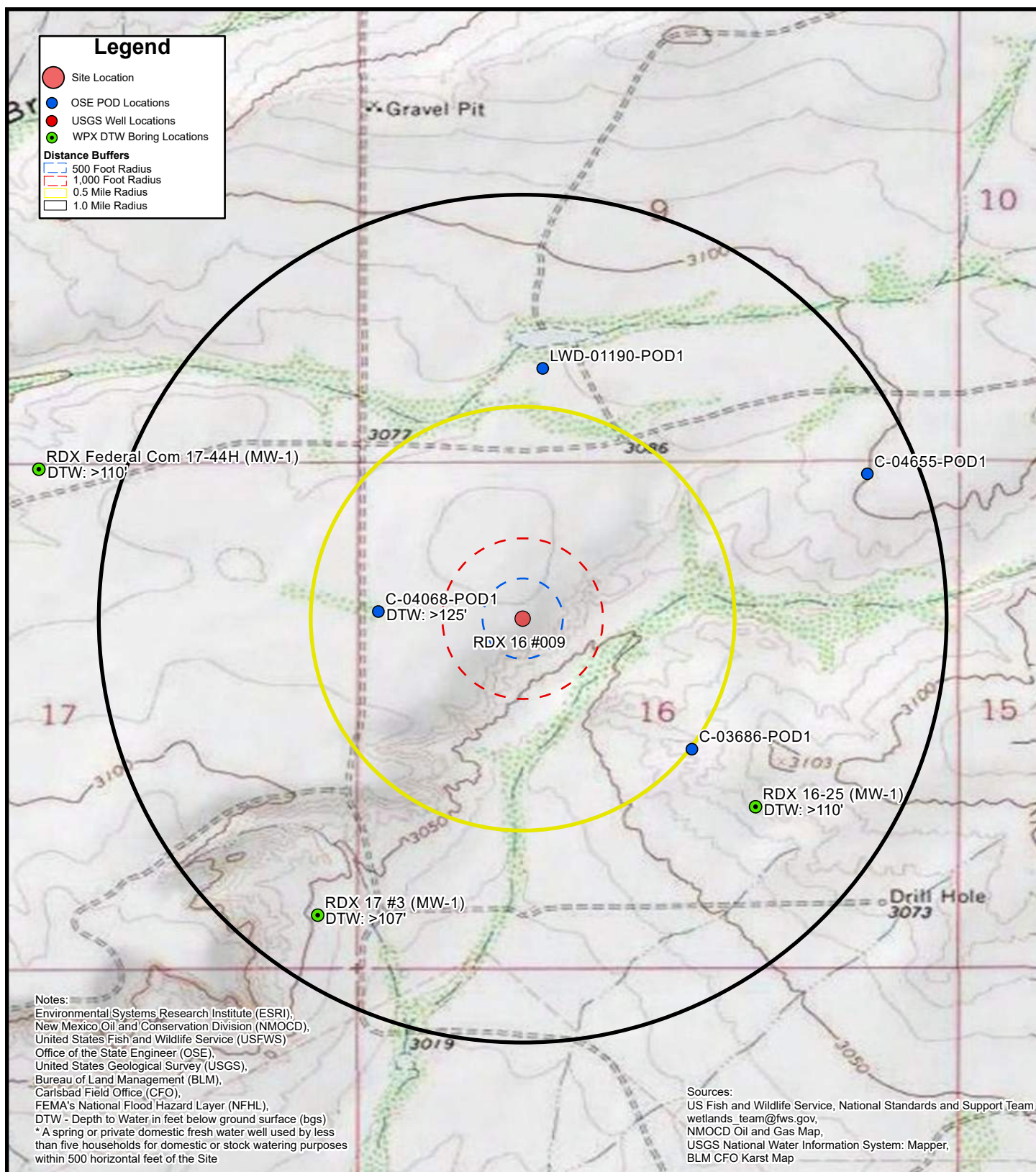
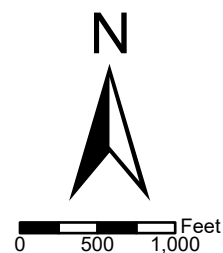


FIGURE 1A
**Site Characterization Map
 Ground Water**

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

eTECH



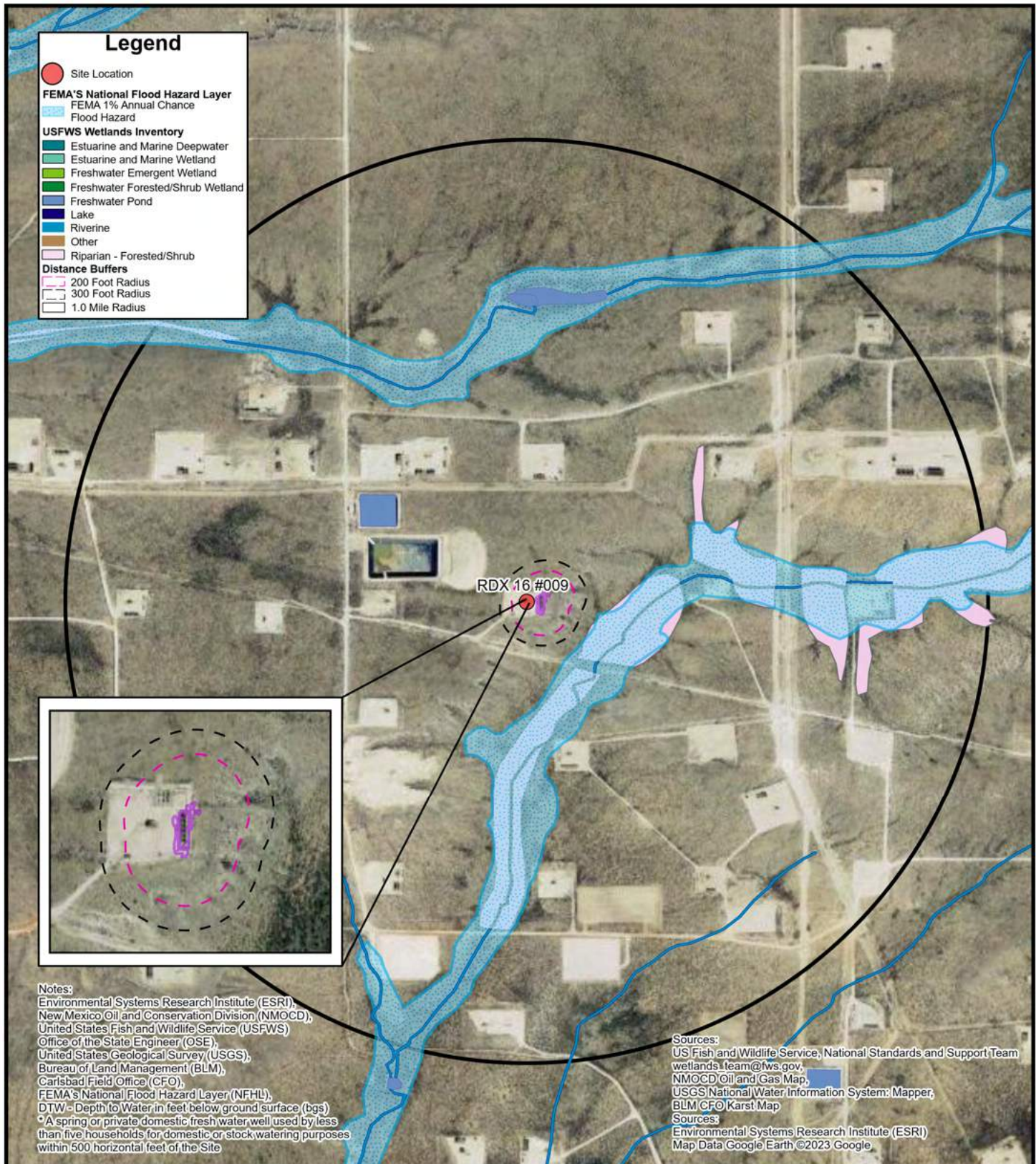
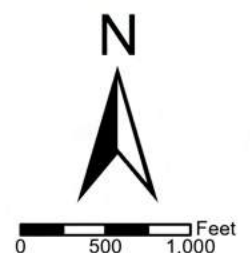
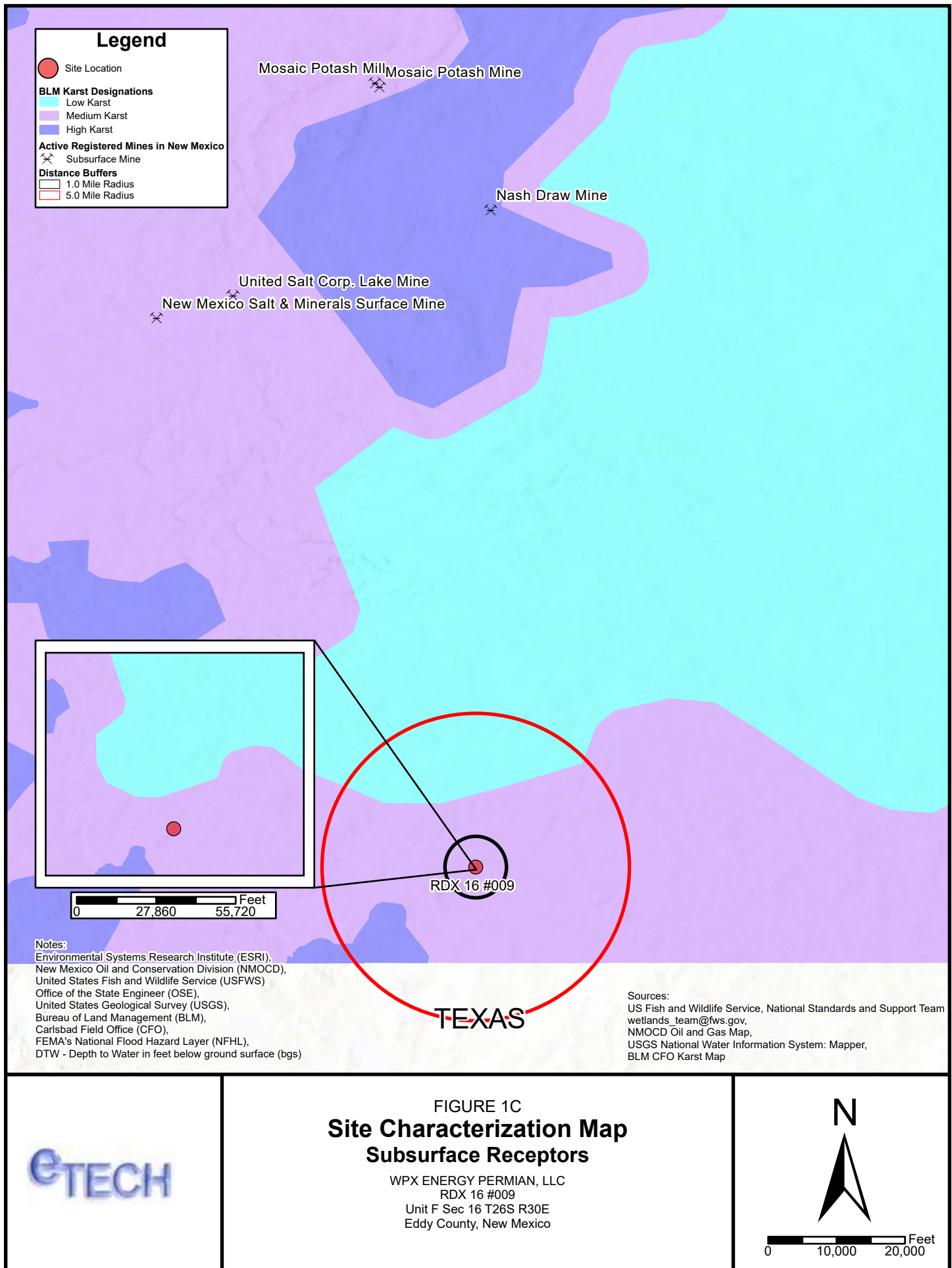


FIGURE 1B Site Characterization Map Surficial Receptors

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





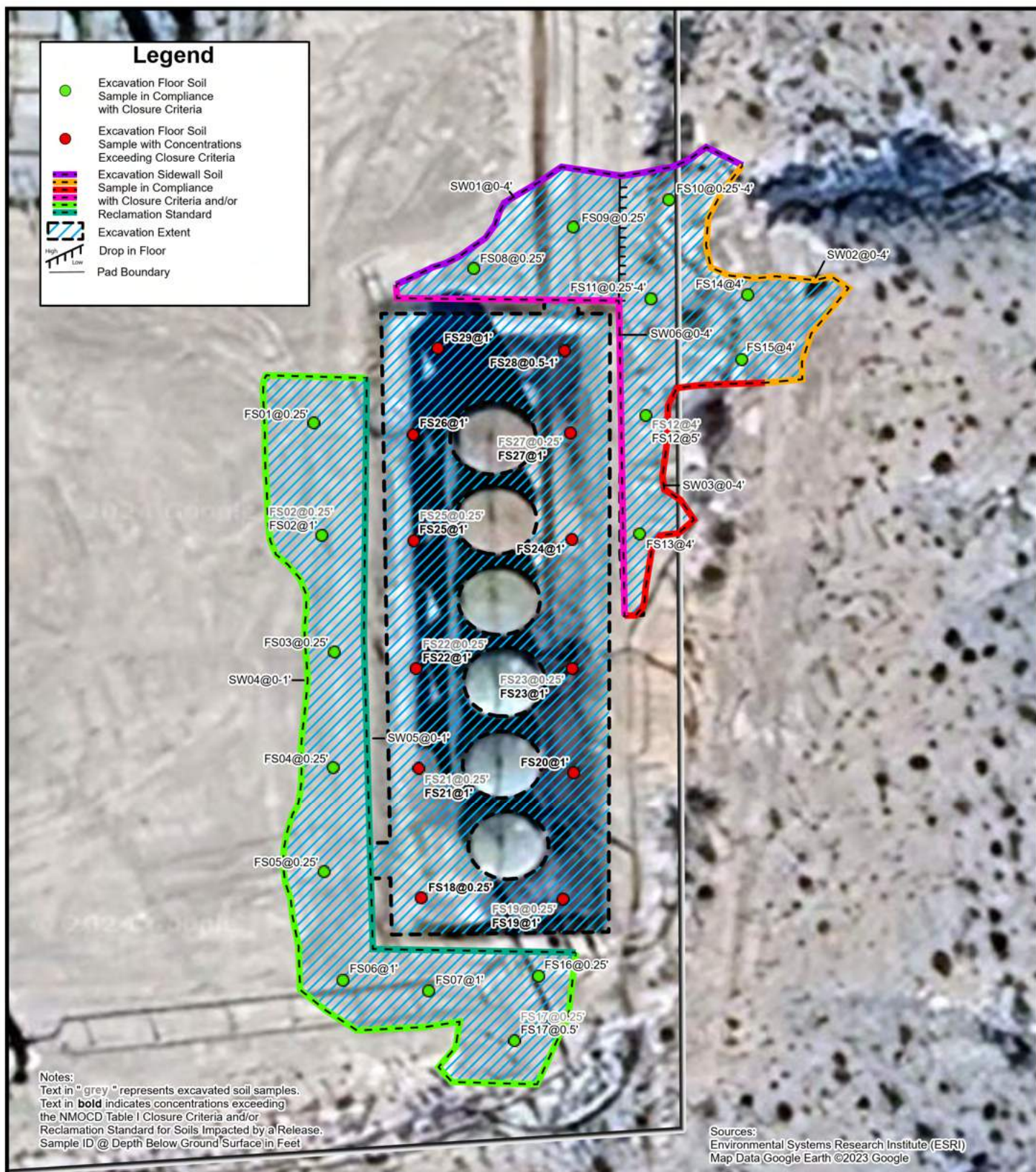
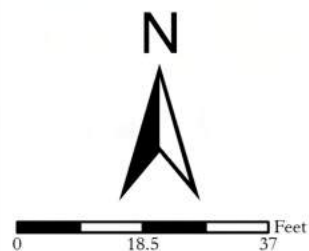


FIGURE 2

Excavation Soil Sample Locations

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



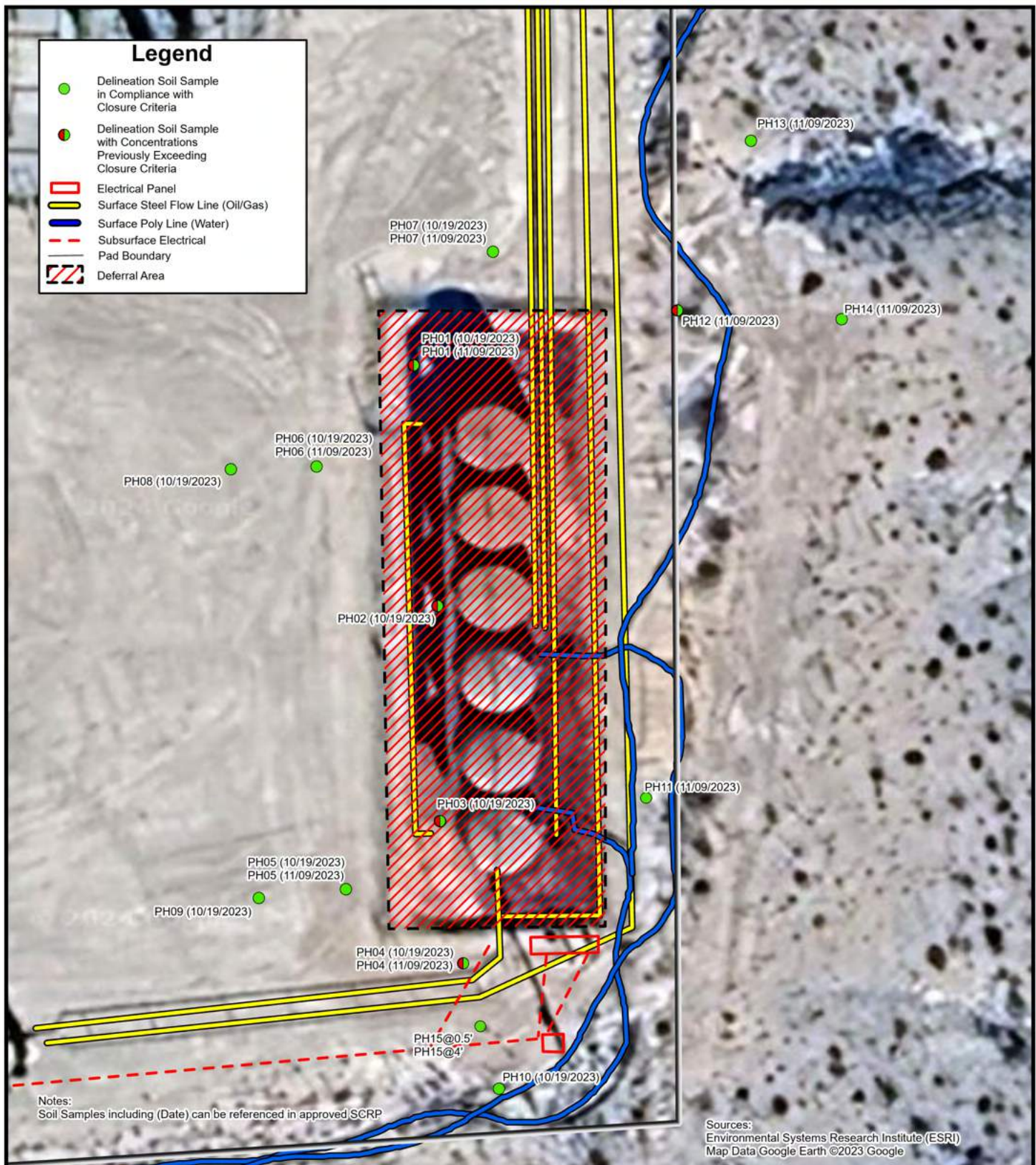


FIGURE 3

Deferral Area

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



0 18.5 37 Feet

APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

2017 MAY 17 PM 1:58

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-4068 POD I				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 Tulsa		STATE OK	
					ZIP 74172			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 43.95 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 103	53	39.23 W	* DATUM REQUIRED: WGS 84				
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) FROM TO		BORE HOLE DIAM. (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	
	0 125		4.625		n/a		n/a	
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	
	n/a n/a		n/a		n/a		n/a	

FOR USE 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

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	C-4068	POD NUMBER	1
LOCATION	26S-30E-112-1-3-1	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

APPENDIX Ô

Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

nAPP2322658221 & nAPP2317840368

**Photograph 1****Date: 04/03/2024**

Description: Northeastern view during excavation activities.

**Photograph 2****Date: 04/03/2024**

Description: Southeastern view during excavation activities.

**Photograph 3****Date: 04/08/2024**

Description: Southwestern view of excavation extent.

**Photograph 4****Date: 04/26/2024**

Description: Southeastern view of excavation extent.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

nAPP2322658221 & nAPP2317840368

**Photograph 5****Date: 05/08/2024**

Description: Northwestern view of excavation extent.

**Photograph 6****Date: 05/14/2024**

Description: Southeastern view of Site restoration.

**Photograph 7****Date: 05/14/2024**

Description: Northeastern view of Site restoration.

**Photograph 8****Date: 05/14/2024**

Description: Southeastern view of Site restoration.

APPENDIX Ö

Tables



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
Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
PH15	04/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	357
PH15	04/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	934
Excavation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
FS01	04/08/2024	0.25	<0.0250	<0.0500	<20.0	895	<100	895	895	2,820
FS02	04/08/2024	0.25	<0.0250	<0.0500	<20.0	4,830	<250	4,830	4,830	5,420
FS02	04/26/2024	1	<0.0250	<0.0500	<20.0	646	457	646	1,103	1,710
FS03	04/08/2024	0.25	<0.0250	<0.0500	<20.0	589	669	589	1,260	9,210
FS04	04/08/2024	0.25	<0.0250	<0.0500	<20.0	603	<100	603	603	10,300
FS05	04/08/2024	0.25	<0.0250	<0.0500	<20.0	592	732	592	1,320	10,500
FS06	04/08/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	17,600
FS07	04/08/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,600
FS08	04/08/2024	0.25	<0.0250	<0.0500	<20.0	40.3	<50.0	40.3	40.3	15,700
FS09	04/08/2024	0.25	<0.0250	<0.0500	<20.0	58.5	<50.0	58.5	58.5	15,400
FS10 [†]	04/08/2024	0.25-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,370
FS11 [†]	04/08/2024	0.25-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,290
FS12 [†]	04/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20,300
FS12 [†]	04/19/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,800
FS13 [†]	04/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	19,900
FS14 [†]	04/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,080
FS15 [†]	04/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,080
FS16	04/08/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	11,300
FS17	04/08/2024	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20,100
FS17	04/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	842
FS18	05/08/2024	1	<0.0250	<0.0500	<20.0	3,610	1,800	3,610	5,410	12,400
FS19	04/16/2024	0.25	<0.0250	0.558	24.9	24,700	15,200	24,700	39,900	6,270
FS19	05/08/2024	1	<0.0250	<0.0500	<20.0	6,480	4,850	6,480	11,330	14,500
FS20	05/08/2024	1	<0.0250	<0.0500	<20.0	7,420	5,430	7,420	12,850	11,400
FS21	04/16/2024	0.25	<0.0250	0.754	27.8	8,590	4,370	8,620	13,000	5,050
FS21	05/08/2024	1	<0.0250	<0.0500	<20.0	7,640	5,880	7,640	13,500	10,400



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
Excavation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
FS22	04/16/2024	0.25	<0.0250	2.19	<20.0	22,300	13,600	22,300	35,900	6,240
FS22	05/08/2024	1	<0.0250	<0.0500	<20.0	2,760	2,130	2,760	4,890	5,670
FS23	04/16/2024	0.25	<0.0250	1.37	42.2	22,100	10,800	22,100	32,900	12,200
FS23	05/08/2024	1	<0.0250	<0.0500	<20.0	7,200	5,220	7,200	12,420	10,400
FS24	05/08/2024	1	<0.0250	<0.0500	<20.0	2,810	1,950	2,810	4,760	5,900
FS25	04/16/2024	0.25	<0.0250	0.317	<20.0	27,900	15,200	27,900	43,100	20,900
FS25	05/08/2024	1	<0.0250	<0.0500	<20.0	2,450	1,610	2,450	4,060	6,050
FS26	05/08/2024	1	<0.0250	<0.0500	<20.0	3,310	2,020	3,310	5,330	11,400
FS27	04/16/2024	0.25	<0.0250	0.322	<20.0	27,500	15,400	27,500	42,900	19,600
FS27	05/08/2024	1	<0.0250	<0.0500	<20.0	3,030	1,800	3,030	4,830	12,400
FS28	05/08/2024	0.5-1	<0.0250	<0.0500	<20.0	10,500	6,800	10,500	17,400	4,640
FS29	05/08/2024	1	<0.0250	<0.0500	<20.0	10,100	6,760	10,100	16,860	5,820
SW01 [†]	04/08/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25.5
SW02 [†]	04/08/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.3
SW03 [†]	04/08/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.4
SW04	04/08/2024	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.8
SW05	04/08/2024	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,750
SW06	04/08/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,100

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 [†] for Soils Impacted by a Release[†] 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.

APPENDIX E

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: E404160

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/24/24

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: 4/24/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #009
Workorder: E404160
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@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	04/24/24 14:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH15 0.5'	E404160-01A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
PH15 4'	E404160-02A	Soil	04/16/24	04/18/24	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: 4/24/2024 2:30:22PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	----------------------------------

PH15 0.5'

E404160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.1 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.1 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416127	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	94.0 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416096	
Chloride	357	20.0	1	04/18/24	04/19/24	



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	4/24/2024 2:30:22PM

PH15 4'

E404160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.2 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	91.3 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.2 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416127
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	93.4 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2416096
Chloride	934	200	10	04/18/24	04/19/24	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/24/2024 2:30:22PM

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 (2416098-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.09	0.0250	2.50		83.4	70-130			
Ethylbenzene	2.13	0.0250	2.50		85.4	70-130			
Toluene	2.24	0.0250	2.50		89.6	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.60	0.0250	7.50		88.0	70-130			
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike (2416098-MS1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.18	0.0250	2.50	ND	87.3	48-131			
Ethylbenzene	2.13	0.0250	2.50	ND	85.2	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.16	0.0250	2.50	ND	86.5	43-135			
p,m-Xylene	4.36	0.0500	5.00	ND	87.2	43-135			
Total Xylenes	6.52	0.0250	7.50	ND	87.0	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2416098-MSD1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.30	0.0250	2.50	ND	92.0	48-131	5.18	23	
Ethylbenzene	2.26	0.0250	2.50	ND	90.6	45-135	6.10	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	6.73	24	
o-Xylene	2.28	0.0250	2.50	ND	91.2	43-135	5.31	27	
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135	4.92	27	
Total Xylenes	6.86	0.0250	7.50	ND	91.5	43-135	5.05	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	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	4/24/2024 2:30:22PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2416098-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2416098-MS2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2416098-MSD2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	1.81	20	
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	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	4/24/2024 2:30:22PM

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 (2416127-BLK1)					Prepared: 04/19/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

LCS (2416127-BS1)					Prepared: 04/19/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.1	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			

Matrix Spike (2416127-MS1)					Source: E404159-28		Prepared: 04/19/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			

Matrix Spike Dup (2416127-MSD1)					Source: E404159-28		Prepared: 04/19/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.2	38-132	0.624	20	
Surrogate: n-Nonane	46.1		50.0		92.1	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	4/24/2024 2:30:22PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2416096-BLK1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Chloride	ND	20.0							
LCS (2416096-BS1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2416096-MS1)					Source: E404153-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Chloride	325	20.0	250	65.6	104	80-120			
Matrix Spike Dup (2416096-MSD1)					Source: E404153-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Chloride	337	20.0	250	65.6	109	80-120	3.72	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	04/24/24 14:30

- 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.



Client: WPX Energy Permian, LLC.

Project: RDX 16 #009

Project Manager: Gilbert Moreno

Address: 13000 W County Rd 100

City, State, Zip: Odessa, TX, 79765

Phone: 832-541-7719

Email: Devon-team@etechnv.com

Collected by: Edyte Konan

Bill To

Attention: Jim Raley

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

Phone: 575-885-7502

Email: jim.raley@dvn.com

WO: 21191055

Incident ID: nAPP2322658221, nAPP2317840368

Lab Use Only

Lab WO#

Job Number

TAT

1D

2D

3D

Standard

EPA Program

CWA

SDWA

Analysis and Method

Depth (ft.)

TPH GRO/DRO/ORO by 8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

TDS

Cation/Anion

BGDOC NM

GDOC TX

State

NM

CO

UT

AZ

TX

Remarks

Time Sampled

Date Sampled

Matrix

No. of Containers

Sample ID

Lab Number

10:30

04.16.24

S

1

PH15

1

10:40

04.16.24

S

1

PH15

2

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: GM

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

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 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.

Lab Use Only

Received on ice:

T1

T2

T3

AVG Temp °C

Envirotech Analytical Laboratory

Printed: 4/19/2024 1:25:55PM

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-learn@etechnv.com

Date Received: 04/18/24 07:45
Date Logged In: 04/18/24 08:59
Due Date: 04/24/24 17:00 (4 day TAT)

Work Order ID: E404160
Logged In By: Angelina Pineda

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 16-9H

Work Order: E404077

Job Number: 01058-0007

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404077
Date Received: 4/10/2024 10:28:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 10:28:00AM, 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,

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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:	Gilbert Moreno	04/16/24 14:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.25'	E404077-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS02 0.25'	E404077-02A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS03 0.25'	E404077-03A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS04 0.25'	E404077-04A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS05 0.25'	E404077-05A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 2:09:28PM
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FS01 0.25'
E404077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	895	50.0	2	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	100	2	04/11/24	04/12/24	
Surrogate: n-Nonane	107 %	50-200		04/11/24	04/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	2820	100	5	04/11/24	04/12/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:09:28PM
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FS02 0.25'
E404077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	4830	125	5	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	250	5	04/11/24	04/12/24	
Surrogate: n-Nonane	111 %	50-200		04/11/24	04/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	5420	100	5	04/11/24	04/12/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:09:28PM
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FS03 0.25'
E404077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	589	50.0	2	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	669	100	2	04/11/24	04/12/24	
Surrogate: n-Nonane	117 %	50-200		04/11/24	04/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	9210	200	10	04/11/24	04/13/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:09:28PM
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FS04 0.25'
E404077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	603	50.0	2	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	100	2	04/11/24	04/12/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	10300	200	10	04/11/24	04/13/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:09:28PM
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FS05 0.25'
E404077-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	592	50.0	2	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	732	100	2	04/11/24	04/12/24	
Surrogate: n-Nonane	114 %	50-200		04/11/24	04/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	10500	200	10	04/11/24	04/13/24	



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:	Gilbert Moreno	4/16/2024 2:09:28PM

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 (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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	7.47		8.00		93.4	70-130			

LCS (2415039-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.51	0.0250	5.00		90.2	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		92.9	70-130			

Matrix Spike (2415039-MS1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.56	0.0250	5.00	ND	91.2	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike Dup (2415039-MSD1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.58	0.0250	5.00	ND	91.6	54-133	0.465	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	0.694	20	
Toluene	4.91	0.0250	5.00	ND	98.3	61-130	0.632	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131	0.762	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.690	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.714	20	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	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:	Gilbert Moreno	4/16/2024 2:09:28PM

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 (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.6	70-130			

LCS (2415039-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2415039-MS2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2415039-MSD2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	0.185	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	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:	Gilbert Moreno	4/16/2024 2:09:28PM

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 (2415051-BLK1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			

LCS (2415051-BS1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	322	25.0	250		129	38-132			
Surrogate: n-Nonane	60.7		50.0		121	50-200			

Matrix Spike (2415051-MS1)					Source: E404067-01		Prepared: 04/11/24 Analyzed: 04/11/24		
Diesel Range Organics (C10-C28)	324	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	60.3		50.0		121	50-200			

Matrix Spike Dup (2415051-MSD1)					Source: E404067-01		Prepared: 04/11/24 Analyzed: 04/11/24		
Diesel Range Organics (C10-C28)	323	25.0	250	ND	129	38-132	0.146	20	
Surrogate: n-Nonane	59.0		50.0		118	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:	Gilbert Moreno	4/16/2024 2:09:28PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2415048-BLK1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	ND	20.0							
LCS (2415048-BS1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415048-MS1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18900	400	250	17600	524	80-120			M4
Matrix Spike Dup (2415048-MSD1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18800	400	250	17600	468	80-120	0.750	20	M4

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:	Gilbert Moreno	04/16/24 14:09

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.

envirotech

Envirotech Analytical Laboratory

Printed: 4/10/2024 2:17:32PM

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:	04/10/24 10:28	Work Order ID:	E404077
Phone:	(539) 573-4018	Date Logged In:	04/10/24 10:28	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/16/24 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



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Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program		
Project: RDX 16-9H				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 404077		01058-007					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				WBS/WO: 21191055												
Collected by: Gilbert Moreno				Incident ID: See Remarks												
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	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
11:30	4.9.24	S	1	FS01	1	0.25'								X		nAPP2322658221
11:40	4.9.24	S	6/21	FS02	2	0.25'								X		nAPP2317840368
11:50	4.9.24	S	6/21	FS03	3	0.25'								X		
12:00	4.9.24	S	6/21	FS04	4	0.25'								X		
12:10	4.9.24	S	6/21	FS05	5	0.25'								X		
<p>4-8-24</p> <p><i>[Signature]</i></p>																
Additional Instructions:																
<p>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: GM</p> <p>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.</p>																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<p>Lab Use Only</p> <p>Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>T1 _____ T2 _____ T3 _____</p> <p>AVG Temp °C 4</p>								
<i>[Signature]</i>		4.9.24	0980	Michelle Gonzales		4.9.24	0930									
Michelle Gonzales		4.9.24	1622	<i>[Signature]</i>		4.9.24	1715									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<p>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p>								
<i>[Signature]</i>		4.9.24	2330	<i>[Signature]</i>		4/10/24	1028									
<p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____</p> <p>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.</p>																



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Report to:
Gilbert Moreno



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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E404268

Job Number: 01058-0007

Received: 4/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/30/24

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: 4/30/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404268
Date Received: 4/29/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/29/2024 7:45:00AM, 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

Raina Schwanz
Laboratory Administrator
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Alexa Michaels
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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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:	Gilbert Moreno	04/30/24 15:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 1'	E404268-01A	Soil	04/26/24	04/29/24	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: Gilbert Moreno	Reported: 4/30/2024 3:29:46PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

FS02 1'
E404268-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418008	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418003	
Diesel Range Organics (C10-C28)	646	50.0	2	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	457	100	2	04/29/24	04/29/24	
Surrogate: n-Nonane	97.1 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2418001	
Chloride	1710	40.0	2	04/29/24	04/29/24	



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:	Gilbert Moreno	4/30/2024 3:29:46PM

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 (2418008-BLK1) Prepared: 04/29/24 Analyzed: 04/29/24

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	7.20		8.00		90.0	70-130			

LCS (2418008-BS1) Prepared: 04/29/24 Analyzed: 04/29/24

Benzene	4.27	0.0250	5.00		85.4	70-130			
Ethylbenzene	4.23	0.0250	5.00		84.6	70-130			
Toluene	4.26	0.0250	5.00		85.2	70-130			
o-Xylene	4.17	0.0250	5.00		83.3	70-130			
p,m-Xylene	8.51	0.0500	10.0		85.1	70-130			
Total Xylenes	12.7	0.0250	15.0		84.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.5	70-130			

Matrix Spike (2418008-MS1) Source: E404270-11 Prepared: 04/29/24 Analyzed: 04/29/24

Benzene	4.95	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.7	70-130			

Matrix Spike Dup (2418008-MSD1) Source: E404270-11 Prepared: 04/29/24 Analyzed: 04/29/24

Benzene	4.99	0.0250	5.00	ND	99.8	54-133	0.906	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133	1.07	20	
Toluene	4.97	0.0250	5.00	ND	99.4	61-130	1.07	20	
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131	0.966	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.24	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131	1.15	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	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:	Gilbert Moreno	4/30/2024 3:29:46PM

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 (2418008-BLK1) Prepared: 04/29/24 Analyzed: 04/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			

LCS (2418008-BS2) Prepared: 04/29/24 Analyzed: 04/29/24

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

Matrix Spike (2418008-MS2) Source: E404270-11 Prepared: 04/29/24 Analyzed: 04/29/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			

Matrix Spike Dup (2418008-MSD2) Source: E404270-11 Prepared: 04/29/24 Analyzed: 04/29/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.7	70-130	2.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	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:	Gilbert Moreno	4/30/2024 3:29:46PM

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 (2418003-BLK1)					Prepared: 04/29/24 Analyzed: 04/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS (2418003-BS1)					Prepared: 04/29/24 Analyzed: 04/29/24				
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

Matrix Spike (2418003-MS1)					Source: E404268-01		Prepared: 04/29/24 Analyzed: 04/29/24		
Diesel Range Organics (C10-C28)	915	50.0	250	646	108	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike Dup (2418003-MSD1)					Source: E404268-01		Prepared: 04/29/24 Analyzed: 04/29/24		
Diesel Range Organics (C10-C28)	1060	50.0	250	646	167	38-132	15.0	20	M2
Surrogate: n-Nonane	53.9		50.0		108	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:	Gilbert Moreno	4/30/2024 3:29:46PM

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 (2418001-BLK1)					Prepared: 04/29/24 Analyzed: 04/29/24				
Chloride	ND	20.0							
LCS (2418001-BS1)					Prepared: 04/29/24 Analyzed: 04/29/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2418001-MS1)					Source: E404267-02		Prepared: 04/29/24 Analyzed: 04/29/24		
Chloride	1050	20.0	250	752	120	80-120			
Matrix Spike Dup (2418001-MSD1)					Source: E404267-02		Prepared: 04/29/24 Analyzed: 04/29/24		
Chloride	1010	20.0	250	752	104	80-120	3.94	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:	Gilbert Moreno	04/30/24 15:29

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

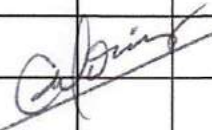
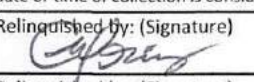
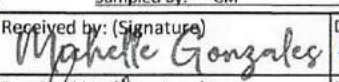
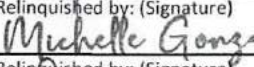
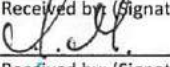
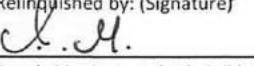
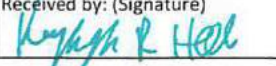
Note (1): Methods marked with ** are non-accredited methods.

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 16-9H				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E404268		9058-007					24 hr 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				Depth (ft.)	TPH GRO/DRO/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com														NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21191055														x				
Collected by: Gilbert Moreno				Incident ID: See Remarks														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number														
10:30	4.26.24	S	1	FS02				1	1'							X		nAPP2322658221				
																		nAPP2317840368				
																						
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: GM												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														
		4.26.24	3:12			4.26.24	1512	Received on ice: Y / N														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3														
		4.26.24	1700			4.26.24	1700															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C														
		4.26.24	2300			4.29.24	0745															
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: 4/29/2024 4:55:00PM

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:	04/29/24 07:45	Work Order ID:	E404268
Phone:	(539) 573-4018	Date Logged In:	04/26/24 15:49	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/30/24 17:00 (1 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: Courier**Comments/Resolution****Sample 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 16-9H

Work Order: E404076

Job Number: 01058-0007

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404076
Date Received: 4/10/2024 10:25:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 10:25:00AM, 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

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

Alexa Michaels
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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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:	Gilbert Moreno	04/16/24 13:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 1'	E404076-01A	Soil	04/09/24	04/10/24	Glass Jar, 2 oz.
FS07 1'	E404076-02A	Soil	04/09/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 1:39:12PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

FS06 1'
E404076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane	112 %	50-200		04/11/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	17600	400	20	04/11/24	04/12/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 4/16/2024 1:39:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS07 1'

E404076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane	113 %	50-200		04/11/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	14600	200	10	04/11/24	04/12/24	



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:	Gilbert Moreno	4/16/2024 1:39:12PM

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 (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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 7.47 8.00 93.4 70-130

LCS (2415039-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.51	0.0250	5.00		90.2	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.44 8.00 92.9 70-130

Matrix Spike (2415039-MS1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.56	0.0250	5.00	ND	91.2	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.31 8.00 91.4 70-130

Matrix Spike Dup (2415039-MSD1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.58	0.0250	5.00	ND	91.6	54-133	0.465	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	0.694	20	
Toluene	4.91	0.0250	5.00	ND	98.3	61-130	0.632	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131	0.762	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.690	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.714	20	

Surrogate: 4-Bromochlorobenzene-PID 7.12 8.00 89.0 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:	Gilbert Moreno	4/16/2024 1:39:12PM

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 (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.6	70-130			

LCS (2415039-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2415039-MS2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2415039-MSD2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	0.185	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	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:	Gilbert Moreno	4/16/2024 1:39:12PM

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 (2415051-BLK1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			

LCS (2415051-BS1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	322	25.0	250		129	38-132			
Surrogate: n-Nonane	60.7		50.0		121	50-200			

Matrix Spike (2415051-MS1)					Source: E404067-01		Prepared: 04/11/24 Analyzed: 04/11/24		
Diesel Range Organics (C10-C28)	324	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	60.3		50.0		121	50-200			

Matrix Spike Dup (2415051-MSD1)					Source: E404067-01		Prepared: 04/11/24 Analyzed: 04/11/24		
Diesel Range Organics (C10-C28)	323	25.0	250	ND	129	38-132	0.146	20	
Surrogate: n-Nonane	59.0		50.0		118	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:	Gilbert Moreno	4/16/2024 1:39:12PM

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 (2415048-BLK1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	ND	20.0							
LCS (2415048-BS1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415048-MS1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18900	400	250	17600	524	80-120			M4
Matrix Spike Dup (2415048-MSD1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18800	400	250	17600	468	80-120	0.750	20	M4

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:	Gilbert Moreno	04/16/24 13:39

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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

Client: WPX Energy Permian, LLC	<table border="1"> <tr> <th colspan="2">Bill To</th> <th colspan="4">Lab Use Only</th> <th colspan="4">TAT</th> <th colspan="2">EPA Program</th> </tr> <tr> <td colspan="2">Attention: Jim Raley</td> <td colspan="2">Lab WO#</td> <td colspan="2">Job Number</td> <td>1D</td> <td>2D</td> <td>3D</td> <td>Standard</td> <td>CWA</td> <td>SDWA</td> </tr> <tr> <td colspan="2">Address: 5315 Buena Vista Dr.</td> <td colspan="2">E 404076</td> <td colspan="2">0105580007</td> <td></td> <td></td> <td></td> <td>5 Day TAT</td> <td></td> <td></td> </tr> <tr> <td colspan="2">City, State, Zip: Carlsbad, NM, 88220</td> <td colspan="8">Analysis and Method</td> <td></td> <td>RCRA</td> </tr> <tr> <td colspan="2">Phone: 575-885-7502</td> <td rowspan="4"> <table border="1"> <tr> <td rowspan="4">t.)</td> <td rowspan="4">O/DRO/ORO by</td> <td rowspan="4">8021</td> <td rowspan="4">8260</td> <td rowspan="4">5010</td> <td rowspan="4">300.0</td> <td rowspan="4">Anion</td> <td rowspan="4">NM</td> <td rowspan="4">TX</td> <td colspan="5">State</td> </tr> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>x</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> </td> <td colspan="5"></td> </tr> <tr> <td colspan="2">Email: jim.raley@dvn.com</td> <td colspan="9"></td> </tr> <tr> <td colspan="2">Email: Devon-team@etechenv.com</td> <td colspan="9"></td> </tr> <tr> <td colspan="2">Collected by: Gilbert Moreno</td> <td colspan="9">Incident ID: See Remarks</td> </tr> </table>	Bill To		Lab Use Only				TAT				EPA Program		Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	Address: 5315 Buena Vista Dr.		E 404076		0105580007					5 Day TAT			City, State, Zip: Carlsbad, NM, 88220		Analysis and Method									RCRA	Phone: 575-885-7502		<table border="1"> <tr> <td rowspan="4">t.)</td> <td rowspan="4">O/DRO/ORO by</td> <td rowspan="4">8021</td> <td rowspan="4">8260</td> <td rowspan="4">5010</td> <td rowspan="4">300.0</td> <td rowspan="4">Anion</td> <td rowspan="4">NM</td> <td rowspan="4">TX</td> <td colspan="5">State</td> </tr> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>x</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	t.)	O/DRO/ORO by	8021	8260	5010	300.0	Anion	NM	TX	State					NM	CO	UT	AZ	TX	x															Email: jim.raley@dvn.com											Email: Devon-team@etechenv.com											Collected by: Gilbert Moreno		Incident ID: See Remarks								
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City, State, Zip_Odessa,TX, 79765																																																																																																																							
Phone: 832-541-7719																																																																																																																							
Email: Devon-team@etechenv.com																																																																																																																							
Collected by: Gilbert Moreno																																																																																																																							

[illegible]

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: GM

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) <i>Calvin</i>	Date 4.9.24	Time 0930	Received by: (Signature) <i>Michelle Gonzales</i>	Date 4-9-24	Time 0930	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 4-9-24	Time 1622	Received by: (Signature) <i>J.M.</i>	Date 4-9-24	Time 1715	
Relinquished by: (Signature) <i>J.M.</i>	Date 4-9-24	Time 2330	Received by: (Signature) <i>Alvin</i>	Date 4/10/24	Time 1025	

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: 4/10/2024 2:15:23PM

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:	04/10/24 10:25	Work Order ID:	E404076
Phone:	(539) 573-4018	Date Logged In:	04/10/24 10:25	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	04/16/24 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 16-9H

Work Order: E404075

Job Number: 01058-0007

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404075
Date Received: 4/10/2024 10:17:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 10:17:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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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:	Gilbert Moreno	04/16/24 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08 0.25'	E404075-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS09 0.25'	E404075-02A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 2:11:29PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

FS08 0.25'
E404075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2415035	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2415035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415093	
Diesel Range Organics (C10-C28)	40.3	25.0	1	04/12/24	04/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/12/24	04/15/24	
Surrogate: n-Nonane	116 %	50-200		04/12/24	04/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	15700	400	20	04/11/24	04/12/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:11:29PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

FS09 0.25'
E404075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2415035	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2415035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415093	
Diesel Range Organics (C10-C28)	58.5	25.0	1	04/12/24	04/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/12/24	04/15/24	
Surrogate: n-Nonane	113 %	50-200		04/12/24	04/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	15400	400	20	04/11/24	04/12/24	



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:	Gilbert Moreno	4/16/2024 2:11:29PM

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 (2415035-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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	7.66		8.00		95.8	70-130			

LCS (2415035-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.83	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	9.96	0.0500	10.0		99.6	70-130			
Total Xylenes	14.9	0.0250	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

Matrix Spike (2415035-MS1) Source: E404072-01 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.80	0.0250	5.00	ND	95.9	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133			
Toluene	4.90	0.0250	5.00	ND	98.0	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2415035-MSD1) Source: E404072-01 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	5.11	0.0250	5.00	ND	102	54-133	6.34	20	
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133	6.57	20	
Toluene	5.23	0.0250	5.00	ND	105	61-130	6.62	20	
o-Xylene	5.25	0.0250	5.00	ND	105	63-131	6.63	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	6.70	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	6.68	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	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:	Gilbert Moreno	4/16/2024 2:11:29PM

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 (2415035-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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

LCS (2415035-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike (2415035-MS2) Source: E404072-01 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike Dup (2415035-MSD2) Source: E404072-01 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130	4.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	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:	Gilbert Moreno	4/16/2024 2:11:29PM

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 (2415093-BLK1)					Prepared: 04/12/24 Analyzed: 04/15/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			

LCS (2415093-BS1)					Prepared: 04/12/24 Analyzed: 04/15/24				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike (2415093-MS1)					Source: E404106-31		Prepared: 04/12/24 Analyzed: 04/15/24		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2415093-MSD1)					Source: E404106-31		Prepared: 04/12/24 Analyzed: 04/15/24		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132	3.52	20	
Surrogate: n-Nonane	53.1		50.0		106	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:	Gilbert Moreno	4/16/2024 2:11:29PM

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 (2415048-BLK1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	ND	20.0							
LCS (2415048-BS1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415048-MS1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18900	400	250	17600	524	80-120			M4
Matrix Spike Dup (2415048-MSD1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18800	400	250	17600	468	80-120	0.750	20	M4

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:	Gilbert Moreno	04/16/24 14:11

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



Client: WPX Energy Permian, LLC						Bill To				Lab Use Only							TAT				EPA Program								
Project: RDX 16-9H						Attention: Jim Raley				Lab WO#			Job Number				1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Gilbert Moreno						Address: 5315 Buena Vista Dr.				E404075			010580007							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				Depth (ft.)	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State									
Phone: 832-541-7719						Email: jim.raley@dm.com														NM	CO	UT	AZ	TX					
Email: Devon-team@etechenv.com						WBS/WO: 21191055														x									
Collected by: Gilbert Moreno						Incident ID: See Remarks																		Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																								
12:40	4.9.24	S	1	FS08	1	0.25'											X			nAPP2322658221									
12:50	4.9.24	S	6 x 1	FS09	2	0.25'											X			nAPP2317840368									
<div style="text-align: center;">All Samples</div>																													
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: GM															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.														
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	Lab Use Only																			
Gilberto			4.9.24	0930	Michelle Gonzales			4.9.24	0930	Received on ice: Y N																			
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	T1 T2 T3																			
Michelle Gonzales			4-9-24	1622	J.M.			4.9.24	1715																				
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	AVG Temp °C																			
J.M.			4.9.24	2330	[Signature]			4/10/24	1017	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: 4/10/2024 2:12:06PM

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	Date Received:	04/10/24 10:17	Work Order ID:	E404075
Phone:	(539) 573-4018	Date Logged In:	04/10/24 10:17	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/16/24 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 16-9H

Work Order: E404063

Job Number: 01058-0007

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404063
Date Received: 4/10/2024 8:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 8:45:00AM, 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,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 04/16/24 15:45
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
FS10 0.25-4'	E404063-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS11 0.25-4'	E404063-02A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS12 4'	E404063-03A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS13 4'	E404063-04A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS14 4'	E404063-05A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS15 4'	E404063-06A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 3:45:20PM
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FS10 0.25-4'

E404063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2415034	
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		92.9 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2415034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		92.9 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415054	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		101 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2415022	
Chloride	5370	200	10	04/10/24	04/10/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 3:45:20PM
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FS11 0.25-4'
E404063-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415034	
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		84.7 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		84.7 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2415054	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		96.3 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2415022	
Chloride	8290	400	20	04/10/24	04/10/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 3:45:20PM
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FS12 4'
E404063-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		99.2 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		99.2 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415054
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		102 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	20300	1000	50	04/10/24	04/10/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 4/16/2024 3:45:20PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS13 4'

E404063-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		112 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		112 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415054
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		102 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	19900	400	20	04/10/24	04/10/24	



Sample Data

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

Project Name: RDX 16-9H
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/16/2024 3:45:20PM

FS14 4'

E404063-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		113 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		113 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415054
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		102 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	1080	200	10	04/10/24	04/10/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 3:45:20PM
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FS15 4'
E404063-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		92.8 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415034
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		92.8 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415054
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		103 %	50-200	04/11/24	04/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	5080	200	10	04/10/24	04/10/24	



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:	Gilbert Moreno	4/16/2024 3:45:20PM

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 (2415034-BLK1) Prepared: 04/10/24 Analyzed: 04/12/24

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	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

LCS (2415034-BS1) Prepared: 04/10/24 Analyzed: 04/12/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.4	70-130			
Toluene	2.36	0.0250	2.50		94.5	70-130			
o-Xylene	2.52	0.0250	2.50		101	70-130			
p,m-Xylene	4.96	0.0500	5.00		99.2	70-130			
Total Xylenes	7.48	0.0250	7.50		99.7	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2415034-MS1) Source: E404067-03 Prepared: 04/10/24 Analyzed: 04/12/24

Benzene	2.50	0.0250	2.50	ND	99.9	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.2	45-135			
Toluene	2.34	0.0250	2.50	ND	93.7	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135			
p,m-Xylene	4.72	0.0500	5.00	ND	94.3	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.3	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2415034-MSD1) Source: E404067-03 Prepared: 04/10/24 Analyzed: 04/12/24

Benzene	2.26	0.0250	2.50	ND	90.3	48-131	10.1	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.7	45-135	1.60	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	1.23	24	
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	4.27	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	12.0	27	
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135	9.52	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		92.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	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:	Gilbert Moreno	4/16/2024 3:45:20PM

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 (2415034-BLK1) Prepared: 04/10/24 Analyzed: 04/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

LCS (2415034-BS2) Prepared: 04/10/24 Analyzed: 04/12/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

Matrix Spike (2415034-MS2) Source: E404067-03 Prepared: 04/10/24 Analyzed: 04/12/24

Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

Matrix Spike Dup (2415034-MSD2) Source: E404067-03 Prepared: 04/10/24 Analyzed: 04/12/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	16.4	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	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:	Gilbert Moreno	4/16/2024 3:45:20PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2415054-BLK1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.6		50.0		115	50-200			

LCS (2415054-BS1)					Prepared: 04/11/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike (2415054-MS1)					Source: E404069-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike Dup (2415054-MSD1)					Source: E404069-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	1.14	20	
Surrogate: n-Nonane	52.1		50.0		104	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:	Gilbert Moreno	4/16/2024 3:45:20PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2415022-BLK1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	ND	20.0							
LCS (2415022-BS1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415022-BSD1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110	0.223	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:	Gilbert Moreno	04/16/24 15:45

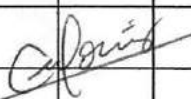
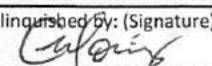
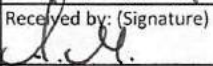
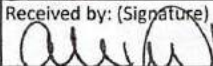
- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received"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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program						
Project: RDX 16-9H				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 404063		010580007					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		Depth (ft.)	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719				Email: jim.raley@dvn.com											NM	CO	UT	AZ	TX	
Email: Devon-team@etechenv.com				WBS/WO: 21191055											x					
Collected by: Gilbert Moreno				Incident ID: See Remarks												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
13:00	4.9.24	S	1	FS10	1	0.25-4'							X		nAPP2322658221					
13:10	4.9.24	S	2	FS11	2	0.25-4'							X		nAPP2317840368					
13:20	4.9.24	S	3	FS12	3	4'							X							
13:30	4.9.24	S	4	FS13	4	4'							X							
13:40	4.9.24	S	5	FS14	5	4'							X							
13:50	4.9.24	S	6	FS15	6	4'							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: GM										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												
		4.9.24	0930	Michelle Gonzales		4.9.24	0930	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												
Michelle Gonzales		4.9.24	1622			4.9.24	1715													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
J. H.		4.9.24	2330			4/10/24	848	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: 4/10/2024 3:51:16PM

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@etechev.com

Date Received: 04/10/24 08:45
 Date Logged In: 04/09/24 17:37
 Due Date: 04/16/24 17:00 (4 day TAT)

Work Order ID: E404063
 Logged In By: Angelina Pineda

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.

Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only		TAT				EPA Program			
Project: RDX 16-9H				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 404063		01058-0007					5 Day TAT		
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220											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				WBS/WO: 21191055											
Collected by: Gilbert Moreno				Incident ID: See Remarks											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDGC TX	Remarks
13:00	4.9.24	S	1	FS10	1	0.25-4'							X		nAPP2322658221
13:10	4.9.24	S	2	FS11	2	0.25-4'							X		nAPP2317840368
13:20	4.9.24	S	2	FS12	3	4'							X		
13:30	4.9.24	S	4	FS13	4	4'							X		
13:40	4.9.24	S	5	FS14	5	4'							X		
13:50	4.9.24	S	6	FS15	6	4'							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: GM															
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							
C. M.		4.9.24	0930	Michelle Gonzales		4.9.24	0930	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							
Michelle Gonzales		4.9.24	1622	J. M.		4.9.24	1715								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C							
J. M.		4.9.24	2330	A. M.		4/10/24	845	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

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E404235

Job Number: 01058-0007

Received: 4/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/29/24

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: 4/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404235
Date Received: 4/23/2024 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/23/2024 8:15:00AM, 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

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: 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	04/29/24 10:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS12 5'	E404235-01A	Soil	04/19/24	04/23/24	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: 4/29/2024 10:11:18AM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

FS12 5'
E404235-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2417034	
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		04/23/24	04/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2417034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	70-130		04/23/24	04/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417039	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane	95.5 %	50-200		04/23/24	04/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2417037	
Chloride	10800	400	20	04/23/24	04/24/24	



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	4/29/2024 10:11:18AM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2417034-BLK1) Prepared: 04/23/24 Analyzed: 04/24/24

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	7.39		8.00		92.3	70-130			

LCS (2417034-BS1) Prepared: 04/23/24 Analyzed: 04/24/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike (2417034-MS1) Source: E404234-02 Prepared: 04/23/24 Analyzed: 04/24/24

Benzene	5.18	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			

Matrix Spike Dup (2417034-MSD1) Source: E404234-02 Prepared: 04/23/24 Analyzed: 04/24/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	3.10	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	2.68	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.00	20	
o-Xylene	4.94	0.0250	5.00	ND	98.9	63-131	2.89	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	2.58	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	2.68	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	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	4/29/2024 10:11:18AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2417034-BLK1) Prepared: 04/23/24 Analyzed: 04/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

LCS (2417034-BS2) Prepared: 04/23/24 Analyzed: 04/24/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

Matrix Spike (2417034-MS2) Source: E404234-02 Prepared: 04/23/24 Analyzed: 04/24/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2417034-MSD2) Source: E404234-02 Prepared: 04/23/24 Analyzed: 04/24/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.1	70-130	0.551	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	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	4/29/2024 10:11:18AM

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 (2417039-BLK1) Prepared: 04/23/24 Analyzed: 04/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.6		50.0		93.3	50-200			

LCS (2417039-BS1) Prepared: 04/23/24 Analyzed: 04/24/24

Diesel Range Organics (C10-C28)	239	25.0	250		95.7	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike (2417039-MS1) Source: E404225-23 Prepared: 04/23/24 Analyzed: 04/24/24

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132			
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			

Matrix Spike Dup (2417039-MSD1) Source: E404225-23 Prepared: 04/23/24 Analyzed: 04/24/24

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	38-132	3.15	20	
Surrogate: n-Nonane	45.5		50.0		90.9	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	4/29/2024 10:11:18AM

Anions by EPA 300.0/9056A

Analyst: JM

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 (2417037-BLK1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	ND	20.0							
LCS (2417037-BS1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2417037-MS1)					Source: E404234-04		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	282	20.0	250	29.9	101	80-120			
Matrix Spike Dup (2417037-MSD1)					Source: E404234-04		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	280	20.0	250	29.9	99.9	80-120	0.645	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	04/29/24 10:11

- 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.



[illegible]

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) <i>[Signature]</i>	Date 04/22/2024	Time 14:00	Received by: (Signature) Michelle Gonzales	Date 4-22-24	Time 11:00	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) Michelle Gonzales	Date 4-22-24	Time 16:00	Received by: (Signature) <i>[Signature]</i>	Date 4-22-24	Time 16:01	
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-22-24	Time 10:15	Received by: (Signature) <i>[Signature]</i>	Date 4/23/24	Time 0815	
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: 4/23/2024 12:09:25PM

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@etechnv.com

Date Received: 04/23/24 08:15
 Date Logged In: 04/23/24 09:14
 Due Date: 04/29/24 17:00 (4 day TAT)

Work Order ID: E404235
 Logged In By: Angelina Pineda

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

Carrier: Courier

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

Sample 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 16-9H

Work Order: E404062

Job Number: 01058-0007

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404062
Date Received: 4/10/2024 8:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 8:45:00AM, 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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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:	Gilbert Moreno	04/16/24 14:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS16 0.25'	E404062-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
FS17 0.25'	E404062-02A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 2:51:58PM
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FS16 0.25'
E404062-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415033	
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415026	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	103 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2415022	
Chloride	11300	200	10	04/10/24	04/10/24	



Sample Data

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

Project Name: RDX 16-9H
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/16/2024 2:51:58PM

FS17 0.25'

E404062-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2415033	
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2415033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2415026	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2415022	
Chloride	20100	400	20	04/10/24	04/10/24	



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:	Gilbert Moreno	4/16/2024 2:51:58PM

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 (2415033-BLK1) Prepared: 04/10/24 Analyzed: 04/10/24

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	7.70		8.00		96.3	70-130			

LCS (2415033-BS1) Prepared: 04/10/24 Analyzed: 04/10/24

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.3	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2415033-MS1) Source: E404059-10 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2415033-MSD1) Source: E404059-10 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.86	0.0250	5.00	ND	97.3	54-133	0.178	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133	0.385	20	
Toluene	4.94	0.0250	5.00	ND	98.7	61-130	0.522	20	
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131	0.354	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.477	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131	0.437	20	
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	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:	Gilbert Moreno	4/16/2024 2:51:58PM

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 (2415033-BLK1) Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

LCS (2415033-BS2) Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike (2415033-MS2) Source: E404059-10 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2415033-MSD2) Source: E404059-10 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.9	70-130	1.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	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:	Gilbert Moreno	4/16/2024 2:51:58PM

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 (2415026-BLK1) Prepared: 04/10/24 Analyzed: 04/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.2		50.0		114	50-200			

LCS (2415026-BS1) Prepared: 04/10/24 Analyzed: 04/10/24

Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS Dup (2415026-BSD1) Prepared: 04/10/24 Analyzed: 04/10/24

Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132	0.233	20	
Surrogate: n-Nonane	56.1		50.0		112	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:	Gilbert Moreno	4/16/2024 2:51:58PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2415022-BLK1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	ND	20.0							
LCS (2415022-BS1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415022-BSD1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110	0.223	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:	Gilbert Moreno	04/16/24 14:51

- 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 16-9H				Attention: Jim Raley		Lab WO#				Job Number						1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 404002				01058-0007									5 Day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220																				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				WBS/WO: 21191055																				
Collected by: Gilbert Moreno				Incident ID: See Remarks																				
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	TDS	Cation/Anion	BGDOC	NM	TX	GDGC	State						
																			NM	CO	UT	AZ	TX	
																			x					
																			Remarks					
14:00	4.9.24	S	1	FS16	1	0.25'									X				nAPP2322658221					
14:10	4.9.24	S	1	FS17	2	0.25'									X				nAPP2317840368					
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: GM														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														
			4.9.24	0930				4.9.24	0930	Received on ice: (Y) N														
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	T1 T2 T3														
			4.9.24	1622				4.9.24	1715															
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	AVG Temp °C														
			4.9.24	2330				4/10/24	848	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: 4/10/2024 4:00:58PM

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@etechenv.com

Date Received: 04/10/24 08:45
 Date Logged In: 04/09/24 17:32
 Due Date: 04/16/24 17:00 (4 day TAT)

Work Order ID: E404062
 Logged In By: Angelina Pineda

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 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: E404161

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/24/24

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: 4/24/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404161
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Office: 505-632-1881
labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: 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	04/24/24 14:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS17 0.5'	E404161-01A	Soil	04/16/24	04/18/24	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: 4/24/2024 2:29:33PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	----------------------------------

FS17 0.5'

E404161-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	91.9 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	99.6 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	91.9 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	99.6 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416127	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	94.4 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416096	
Chloride	842	200	10	04/18/24	04/19/24	



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	4/24/2024 2:29:33PM

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 (2416098-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.09	0.0250	2.50		83.4	70-130			
Ethylbenzene	2.13	0.0250	2.50		85.4	70-130			
Toluene	2.24	0.0250	2.50		89.6	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.60	0.0250	7.50		88.0	70-130			
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike (2416098-MS1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.18	0.0250	2.50	ND	87.3	48-131			
Ethylbenzene	2.13	0.0250	2.50	ND	85.2	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.16	0.0250	2.50	ND	86.5	43-135			
p,m-Xylene	4.36	0.0500	5.00	ND	87.2	43-135			
Total Xylenes	6.52	0.0250	7.50	ND	87.0	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2416098-MSD1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.30	0.0250	2.50	ND	92.0	48-131	5.18	23	
Ethylbenzene	2.26	0.0250	2.50	ND	90.6	45-135	6.10	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	6.73	24	
o-Xylene	2.28	0.0250	2.50	ND	91.2	43-135	5.31	27	
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135	4.92	27	
Total Xylenes	6.86	0.0250	7.50	ND	91.5	43-135	5.05	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	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	4/24/2024 2:29:33PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2416098-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2416098-MS2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2416098-MSD2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	1.81	20	
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	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	4/24/2024 2:29:33PM

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 (2416127-BLK1)					Prepared: 04/19/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

LCS (2416127-BS1)					Prepared: 04/19/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.1	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			

Matrix Spike (2416127-MS1)					Source: E404159-28		Prepared: 04/19/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			

Matrix Spike Dup (2416127-MSD1)					Source: E404159-28		Prepared: 04/19/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.2	38-132	0.624	20	
Surrogate: n-Nonane	46.1		50.0		92.1	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	4/24/2024 2:29:33PM

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 (2416096-BLK1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Chloride	ND	20.0							
LCS (2416096-BS1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2416096-MS1)					Source: E404153-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Chloride	325	20.0	250	65.6	104	80-120			
Matrix Spike Dup (2416096-MSD1)					Source: E404153-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Chloride	337	20.0	250	65.6	109	80-120	3.72	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	04/24/24 14:29

- 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.



Released to Imaging: 8/6/2024 4:25:22 PM

Received by OCD: 8/6/2024 4:43:36 PM

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT				EPA Program					
Project: RDX 16 #009				Attention: Jim Raley		Lab WO# E 404161		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.									5 day TAT				
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220											RCRA		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502													
Phone: 832-541-7719				Email: jim.raley@dvn.com													
Email: Devon-team@etechnv.com				WO: 21191055													
				Incident ID: nAPP2322658221, nAPP2317840368													
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	TDS	Cation/ Anion	BGDOC NM	TX	GDGC	Remarks
12:50	04.16.24	S	1	FS17	1	0.5'								X			
<div>04/17/2024</div>																	
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																	
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>Michelle Gonzales</i>						Lab Use Only					
Date: 04/17/24						Date: 4-17-24						Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N					
Time: 7:30						Time: 0730											
Relinquished by: (Signature) <i>Michelle Gonzales</i>						Received by: (Signature) <i>Andrew M880</i>						T1					
Date: 4-17-24						Date: 4.17.24						T2					
Time: 1617						Time: 1730						T3					
Relinquished by: (Signature) <i>Andrew M880</i>						Received by: (Signature) <i>[Signature]</i>						AVG Temp °C 4					
Date: 4.17.24						Date: 4/18/24											
Time: 2400						Time: 0745											
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: 4/19/2024 1:34:31PM

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:	04/18/24 07:45	Work Order ID:	E404161
Phone:	(539) 573-4018	Date Logged In:	04/18/24 09:05	Logged In By:	Angelina Pineda
Email:	devon-team@eictechenv.com	Due Date:	04/24/24 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

Carrier: Courier

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

Sample 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



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E404152

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404152
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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Field Offices:

Southern New Mexico Area

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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	04/19/24 11:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS19 0.25'	E404152-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 11:57:40AM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

FS19 0.25'
E404152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.159	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.0700	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.329	0.0500	1	04/18/24	04/18/24	
Total Xylenes	0.399	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	86.8 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	24.9	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	24700	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	15200	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	120 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	6270	100	5	04/18/24	04/18/24	



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	4/19/2024 11:57:40AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 11:57:40AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 11:57:40AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 11:57:40AM

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 (2416092-BLK1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416092-BS1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 11:57

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



Released to Imaging: 8/6/2024 4:23:22 PM

Received by OCD: 8/6/2024 4:43:36 PM

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.		E404152		01058-0007					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		Depth (ft.)	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM	TX	GDOC	State					
Phone: 832-541-7719				Email: jim.raley@dmv.com													NM	CO	UT	AZ	TX	
mail: Devon-team@etechnv.com				WO: 21191055																		
Collected by: Edyte Konan				Incident ID: nAPP2322658221, nAPP2317840368																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks					
11:00	04.16.24	S	1	FS19	1	0.25'								X			24H TAT BTEX and TPH					
<div>04/17/2024</div>																						
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 6 °C on subsequent days.										
Sampled by: EK												Lab Use Only										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: (Y)N														
Michelle Gonzales		04/17/24	07:30	Michelle Gonzales		4-17-24	0730															
Michelle Gonzales		4-17-24	1617	Andrew		4-17-24	1730	T1 T2 T3														
Andrew		4-17-24	2400	Andrew		4/18/24	0745	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.																						



Page 195 of 630

Envirotech Analytical Laboratory

Printed: 4/18/2024 3:32:02PM

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@etechnav.com

Date Received: 04/18/24 07:45
 Date Logged In: 04/17/24 16:52
 Due Date: 04/18/24 17:00 (0 day TAT)

Work Order ID: E404152
 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/ 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

COC Remarks : 24H TAT BTEX and TPH

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: E404150

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404150
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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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Client Representative
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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
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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	04/19/24 11:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 0.25'	E404150-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 11:59:53AM
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FS21 0.25'
E404150-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.130	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.268	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.356	0.0500	1	04/18/24	04/18/24	
Total Xylenes	0.624	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	27.8	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	8590	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	4370	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	127 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	5050	200	10	04/18/24	04/18/24	



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	4/19/2024 11:59:53AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 11:59:53AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 11:59:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 11:59:53AM

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 (2416092-BLK1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416092-BS1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 11:59

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 4/18/2024 3:49:49PM

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:	04/18/24 07:45	Work Order ID:	E404150
Phone:	(539) 573-4018	Date Logged In:	04/17/24 16:42	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	04/18/24 17:00 (0 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: 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 (pca 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

COC Remarks : 24H TAT BTEX and TPH

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: E404151

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404151
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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	04/19/24 11:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS22 0.25'	E404151-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 11:58:35AM
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FS22 0.25'

E404151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.0852	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.127	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.0838	0.0500	1	04/18/24	04/18/24	
Total Xylenes	0.211	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	87.0 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.0 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	22300	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	13600	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	124 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	6240	100	5	04/18/24	04/18/24	



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	4/19/2024 11:58:35AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 11:58:35AM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 11:58:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 11:58:35AM

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 (2416092-BLK1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416092-BS1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 11:58

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.

Refused to Imaging: 8/8/2024 4:25:22 PM

Received by OCD: 8/6/2024 4:43:36 PM

Client: WPX Energy Permian, LLC. Project: RDX 16 #009 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechnv.com					Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dmv.com WO: 21191055 Incident ID: nAPP2322658221, nAPP2317840368		Lab Use Only Lab WO# E 404151 Job Number 0058-007				TAT 1D 2D 3D Standard 5 day TAT				EPA Program CWA SDWA RCRA							
Collected by: Edyte Konan					Analysis and Method												State					
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	TDS	Cation/ Anion	BGDOC NM	TX	GDGC	NM	CO	UT	AZ	TX	Remarks
11:30	04.16.24	S	1	FS22	(0.25'								X								24H TAT BTEX and TPH
04/17/2024																						
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 Received on ice: 0/ N										
Michelle Gonzales		04/17/24		07:30		Michelle Gonzales		4-17-24		0730		T1 T2 T3										
Michelle Gonzales		4-17-24		1617		Andrew M880		4-17-24		1730		T1 T2 T3										
Andrew M880		4-17-24		2400		AQ		4/18/24		0745		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 Analytical Laboratory

Printed: 4/18/2024 3:43:30PM

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:	04/18/24 07:45	Work Order ID:	E404151
Phone:	(539) 573-4018	Date Logged In:	04/17/24 16:50	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/18/24 17:00 (0 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: Courier**Comments/Resolution**

COC Remarks : 24H TAT BTEX and TPH

Sample 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: E404146

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404146
Date Received: 4/18/2024 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:30:00AM, 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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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	04/19/24 12:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS23 0.25'	E404146-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 12:03:18PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

FS23 0.25'

E404146-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.213	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.506	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.654	0.0500	1	04/18/24	04/18/24	
Total Xylenes	1.16	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	42.2	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	22100	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	10800	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	127 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	12200	200	10	04/18/24	04/18/24	



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	4/19/2024 12:03:18PM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 12:03:18PM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 12:03:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 12:03:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2416092-BLK1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416092-BS1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 12:03

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 4/18/2024 4:01:42PM

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:	04/18/24 07:30	Work Order ID:	E404146
Phone:	(539) 573-4018	Date Logged In:	04/17/24 16:26	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	04/18/24 17:00 (0 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 | Carrier: <u>Courier</u> |
| 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. | | |

Sample 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/in 15 minutes of sampling | |
| 13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> | |

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 (pca 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

COC Remarks : 24H TAT BTEX and TPH

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: E404148

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404148
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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
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whinchman@envirotech-inc.com

Raina Schwanz
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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	04/19/24 12:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS25 0.25'	E404148-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 12:02:21PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

FS25 0.25'

E404148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.0613	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.147	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.109	0.0500	1	04/18/24	04/18/24	
Total Xylenes	0.256	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.1 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	27900	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	15200	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	116 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	20900	400	20	04/18/24	04/18/24	



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	4/19/2024 12:02:21PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 12:02:21PM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 12:02:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 12:02:21PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2416092-BLK1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416092-BS1)					Prepared: 04/18/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)					Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24		
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 12:02

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



Released to: Imaging: 8/6/2024 4:25:22 PM

Received by OCD: 8/6/2024 4:43:36 PM

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.		E404148		01058-0007						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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM	TX	GDGC	State				
Phone: 832-541-7719					Email: jim.raley@dmn.com													NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com					WO: 21191055																	
Incident ID: nAPP2322658221, nAPP2317840368																						
Collected by: Edyte Konan																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
12:00	04.16.24	S	1	FS25	1	0.25'									X			24H TAT BTEX and TPH				
<div>04/17/2024</div>																						
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																						
Relinquished by: (Signature)						Received by: (Signature)						Lab Use Only										
Date: 04/17/24						Date: 4-17-24						Received on ice: Y N										
Time: 7:30						Time: 0730																
Relinquished by: (Signature)						Received by: (Signature)						T1 T2 T3										
Date: 4-17-24						Date: 4-17-24																
Time: 1617						Time: 1730																
Relinquished by: (Signature)						Received by: (Signature)						AVG Temp °C 4										
Date: 4-17-24						Date: 4/18/24																
Time: 2400						Time: 0745																
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.																						



Page 243 of 630

Envirotech Analytical Laboratory

Printed: 4/18/2024 3:58:08PM

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@etechnv.com

Date Received: 04/18/24 07:45
 Date Logged In: 04/17/24 16:37
 Due Date: 04/18/24 17:00 (0 day TAT)

Work Order ID: E404148
 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
 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling Yes
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

COC Remarks : 24H TAT BTEX and TPH

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: E404149

Job Number: 01058-0007

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E404149
Date Received: 4/18/2024 7:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, 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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Office: 505-632-1881
Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

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	04/19/24 12:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27 0.25'	E404149-01A	Soil	04/16/24	04/18/24	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: 4/19/2024 12:01:19PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

FS27 0.25'

E404149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	0.0742	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	0.132	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	0.115	0.0500	1	04/18/24	04/18/24	
Total Xylenes	0.248	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2416085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.7 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
Diesel Range Organics (C10-C28)	27500	500	20	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	15400	1000	20	04/18/24	04/18/24	
Surrogate: n-Nonane	122 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2416092	
Chloride	19600	400	20	04/18/24	04/18/24	



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	4/19/2024 12:01:19PM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

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	6.94		8.00		86.7	70-130			

LCS (2416085-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike (2416085-MS1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2416085-MSD1) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	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	4/19/2024 12:01:19PM

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 (2416085-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

LCS (2416085-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2416085-MS2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416085-MSD2) Source: E404142-02 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	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	4/19/2024 12:01:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2416088-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	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	4/19/2024 12:01:19PM

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 (2416092-BLK1)				Prepared: 04/18/24 Analyzed: 04/18/24					
Chloride	ND	20.0							
LCS (2416092-BS1)				Prepared: 04/18/24 Analyzed: 04/18/24					
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)				Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24			
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)				Source: E404146-01		Prepared: 04/18/24 Analyzed: 04/18/24			
Chloride	11300	200	250	12200	NR	80-120	4.39	20	M4

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	04/19/24 12:01

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 4/18/2024 3:53:34PM

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:	04/18/24 07:45	Work Order ID:	E404149
Phone:	(539) 573-4018	Date Logged In:	04/17/24 16:39	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/18/24 17:00 (0 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: Courier**Comments/Resolution**

COC Remarks : 24H TAT BTEX and TPH

Sample 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: E405140

Job Number: 01058-0007

Received: 5/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/17/24

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: 5/17/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E405140
Date Received: 5/10/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2024 5:00:00AM, 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: 05/17/24 17:27
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
FS18 1'	E405140-01A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS19 1'	E405140-02A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS20 1'	E405140-03A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS21 1'	E405140-04A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS22 1'	E405140-05A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS23 1'	E405140-06A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS24 1'	E405140-07A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS25 1'	E405140-08A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS26 1'	E405140-09A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS27 1'	E405140-10A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS28 0.5'- 1'	E405140-11A	Soil	05/08/24	05/10/24	Glass Jar, 2 oz.
FS29 1'	E405140-12A	Soil	05/08/24	05/10/24	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: 5/17/2024 5:27:44PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	----------------------------------

FS18 1'
E405140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Benzene	ND	0.0250	1	05/10/24	05/14/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/14/24	
Toluene	ND	0.0250	1	05/10/24	05/14/24	
o-Xylene	ND	0.0250	1	05/10/24	05/14/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/14/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2420075	
Diesel Range Organics (C10-C28)	3610	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	1800	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		98.6 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2420152	
Chloride	12400	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS19 1'

E405140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/14/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/14/24	
Toluene	ND	0.0250	1	05/10/24	05/14/24	
o-Xylene	ND	0.0250	1	05/10/24	05/14/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/14/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		101 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		101 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	6480	500	20	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	4850	1000	20	05/14/24	05/17/24	
Surrogate: n-Nonane		106 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	14500	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS20 1'

E405140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/14/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/14/24	
Toluene	ND	0.0250	1	05/10/24	05/14/24	
o-Xylene	ND	0.0250	1	05/10/24	05/14/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/14/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	05/10/24	05/14/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	7420	500	20	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	5430	1000	20	05/14/24	05/17/24	
Surrogate: n-Nonane		109 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	11400	200	10	05/16/24	05/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 5/17/2024 5:27:44PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS21 1'
E405140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Benzene	ND	0.0250	1	05/10/24	05/14/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/14/24	
Toluene	ND	0.0250	1	05/10/24	05/14/24	
o-Xylene	ND	0.0250	1	05/10/24	05/14/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/14/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene	103 %	70-130		05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		05/10/24	05/14/24	
Surrogate: Toluene-d8	103 %	70-130		05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/14/24	
Surrogate: Bromofluorobenzene	103 %	70-130		05/10/24	05/14/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		05/10/24	05/14/24	
Surrogate: Toluene-d8	103 %	70-130		05/10/24	05/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2420075	
Diesel Range Organics (C10-C28)	7640	500	20	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	5880	1000	20	05/14/24	05/17/24	
Surrogate: n-Nonane	117 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2420152	
Chloride	10400	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS22 1'

E405140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	2760	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	2130	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		100 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	5670	100	5	05/16/24	05/17/24	



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:
5/17/2024 5:27:44PM

FS23 1'

E405140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	7200	125	5	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	5220	250	5	05/14/24	05/17/24	
Surrogate: n-Nonane		100 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	10400	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS24 1'

E405140-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		113 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		113 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	2810	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	1950	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		104 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	5900	100	5	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS25 1'
E405140-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		100 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		100 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	2450	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	1670	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		99.4 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	6050	100	5	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS26 1'
E405140-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	3310	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	2020	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		102 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	11400	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS27 1'

E405140-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		100 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		100 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	3030	250	10	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	1800	500	10	05/14/24	05/17/24	
Surrogate: n-Nonane		91.1 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	12400	200	10	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS28 0.5'- 1'
E405140-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2419195
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	05/10/24	05/15/24	
Surrogate: Toluene-d8		102 %	70-130	05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	10500	500	20	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	6800	1000	20	05/14/24	05/17/24	
Surrogate: n-Nonane		103 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420152
Chloride	4640	40.0	2	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

FS29 1'

E405140-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Benzene	ND	0.0250	1	05/10/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/15/24	
Toluene	ND	0.0250	1	05/10/24	05/15/24	
o-Xylene	ND	0.0250	1	05/10/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/10/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		05/10/24	05/15/24	
Surrogate: Toluene-d8	101 %	70-130		05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2419195	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/15/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/10/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		05/10/24	05/15/24	
Surrogate: Toluene-d8	101 %	70-130		05/10/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2420075	
Diesel Range Organics (C10-C28)	10100	500	20	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	6760	1000	20	05/14/24	05/17/24	
Surrogate: n-Nonane	112 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2420152	
Chloride	5820	100	5	05/16/24	05/17/24	



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	5/17/2024 5:27:44PM

Volatile Organic Compounds by EPA 8260B

Analyst: EG

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

Blank (2419195-BLK1) Prepared: 05/10/24 Analyzed: 05/14/24

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	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2419195-BS1) Prepared: 05/10/24 Analyzed: 05/14/24

Benzene	2.72	0.0250	2.50		109	70-130			
Ethylbenzene	2.87	0.0250	2.50		115	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.96	0.0250	2.50		118	70-130			
p,m-Xylene	5.98	0.0500	5.00		120	70-130			
Total Xylenes	8.94	0.0250	7.50		119	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2419195-MS1) Source: E405140-04 Prepared: 05/10/24 Analyzed: 05/14/24

Benzene	2.60	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.72	0.0250	2.50	ND	109	45-135			
Toluene	2.58	0.0250	2.50	ND	103	48-130			
o-Xylene	2.89	0.0250	2.50	ND	116	43-135			
p,m-Xylene	5.82	0.0500	5.00	ND	116	43-135			
Total Xylenes	8.72	0.0250	7.50	ND	116	43-135			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2419195-MSD1) Source: E405140-04 Prepared: 05/10/24 Analyzed: 05/14/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	2.12	23	
Ethylbenzene	2.72	0.0250	2.50	ND	109	45-135	0.0184	27	
Toluene	2.56	0.0250	2.50	ND	103	48-130	0.448	24	
o-Xylene	2.96	0.0250	2.50	ND	118	43-135	2.09	27	
p,m-Xylene	5.96	0.0500	5.00	ND	119	43-135	2.29	27	
Total Xylenes	8.91	0.0250	7.50	ND	119	43-135	2.22	27	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.438		0.500		87.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	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	5/17/2024 5:27:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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

Blank (2419195-BLK1) Prepared: 05/10/24 Analyzed: 05/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2419195-BS2) Prepared: 05/10/24 Analyzed: 05/14/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.7	70-130			
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike (2419195-MS2) Source: E405140-04 Prepared: 05/10/24 Analyzed: 05/14/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130			
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike Dup (2419195-MSD2) Source: E405140-04 Prepared: 05/10/24 Analyzed: 05/14/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.0	70-130	0.0812	20	
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	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	5/17/2024 5:27:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2420075-BLK1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2420075-BS1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	226	25.0	250		90.4	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

LCS Dup (2420075-BSD1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132	19.0	20	
Surrogate: n-Nonane	54.9		50.0		110	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	5/17/2024 5:27:44PM

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 (2420152-BLK1)					Prepared: 05/16/24 Analyzed: 05/17/24				
Chloride	ND	20.0							
LCS (2420152-BS1)					Prepared: 05/16/24 Analyzed: 05/17/24				
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2420152-BSD1)					Prepared: 05/16/24 Analyzed: 05/17/24				
Chloride	252	20.0	250		101	90-110	1.38	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	05/17/24 17:27

- 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.

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.		E405140	01058-0007				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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDGC	State				
Phone: 832-541-7719					Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com					WO: 21191055																	
Incident ID: nAPP2322658221, nAPP2317840368																						
Collected by: Edyte Konan																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
11:00	05.08.24	S	1	FS18	1	1'									X							
11:10	05.08.24	S	1	FS19	2	1'									X							
11:20	05.08.24	S	1	FS20	3	1'									X							
11:30	05.08.24	S	1	FS21	4	1'									X							
11:40	05.08.24	S	1	FS22	5	1'									X							
11:50	05.08.24	S	1	FS23	6	1'									X							
12:00	05.08.24	S	1	FS24	7	1'									X							
12:10	05.08.24	S	1	FS25	8	1'									X							
12:20	05.08.24	S	1	FS26	9	1'									X							
12:30	05.08.24	S	1	FS27	10	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 6 °C on subsequent days.												
Relinquished by: (Signature) <i>[Signature]</i> Date: 05/09/24 Time: 0936										Received by: (Signature) <i>Michelle Gonzales</i> Date: 5-9-24 Time: 0936												
Relinquished by: (Signature) <i>Michelle Gonzales</i> Date: 5-9-24 Time: 1830										Received by: (Signature) <i>J.M.</i> Date: 5-9-24 Time: 1830												
Relinquished by: (Signature) <i>J.M.</i> Date: 5-9-24 Time: 2400										Received by: (Signature) <i>Keypa R Hall</i> Date: 5-10-24 Time: 0500												
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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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 405740	01058-0007				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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719					Email: jim.raley@divn.com												NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com					WO: 21191055																
					Incident ID: nAPP2322658221, nAPP2317840368																
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks					
12:40	05.08.24	S	1	FS28	11	1'								X							
12:50	05.08.24	S	1	FS29	12	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. 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													
[Signature]		05/09/24	0936	Michelle Gonzales		5-9-24	0936	Received on ice: Y/ N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
Michelle Gonzales		5-9-24	1830	[Signature]		5-9-24	1830														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C													
[Signature]		5-9-24	2400	[Signature]		5-10-24	0500	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 Analytical Laboratory

Printed: 5/13/2024 9:26:55AM

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:	05/10/24 05:00	Work Order ID:	E405140
Phone:	(539) 573-4018	Date Logged In:	05/09/24 14:52	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	05/16/24 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



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Project Information

Chain of Custody

Page 1 of 2

Client: WPX Energy Permian, LLC.				Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dv.com WO: 21191055 Incident ID: nAPP2322658221, nAPP2317840368		Lab Use Only Lab WO# <u>E405140</u> Job Number <u>0105B-0007</u>				TAT 1D 2D 3D Standard 5 day TAT				EPA Program CWA SDWA			
Project: RDX 16 #009						Analysis and Method Depth (ft.) TPH GRO/DRO/ORO by 801.5 BTEX by 802.1 VOC by 826.0 Metals 601.0 Chloride 300.0 TDS Cation/ Anion BGDOC NM TX COOC				State NM CO UT AZ TX				RCRA			
Project Manager: Gilbert Moreno																	
Address: 13000 W County Rd 100																	
City, State, Zip: Odessa, TX, 79765																	
Phone: 832-541-7719																	
Email: Devon-team@etechnv.com																	
Collected by: Edyte Konan																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks											
11:00	05.08.24	S	1	FS18	1												
11:10	05.08.24	S	1	FS19	2												
11:20	05.08.24	S	1	FS20	3												
11:30	05.08.24	S	1	FS21	4												
11:40	05.08.24	S	1	FS22	5												
11:50	05.08.24	S	1	FS23	6												
12:00	05.08.24	S	1	FS24	7												
12:10	05.08.24	S	1	FS25	8												
12:20	05.08.24	S	1	FS26	9												
12:30	05.08.24	S	1	FS27	10												
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: <u>EK</u>																	
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) <u>[Signature]</u>		Date <u>05/09/24</u>	Time <u>0936</u>	Received by: (Signature) <u>Michelle Gonzales</u>		Date <u>5-9-24</u>	Time <u>0936</u>	Lab Use Only Received on ice: <u>Y</u> / N									
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date <u>5-9-24</u>	Time <u>1830</u>	Received by: (Signature) <u>[Signature]</u>		Date <u>5-9-24</u>	Time <u>1830</u>	T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>5-9-24</u>	Time <u>2400</u>	Received by: (Signature) <u>Keeyah R Hall</u>		Date <u>5-10-24</u>	Time <u>0500</u>	AVG Temp °C <u>4</u>									
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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Report to:

Gilbert Moreno



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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E404061

Job Number: 01058-0007

Received: 4/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404061
Date Received: 4/10/2024 8:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 8:45:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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ljjarboe@envirotech-inc.com

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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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:	Gilbert Moreno	04/16/24 14:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-4'	E404061-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW02 0-4'	E404061-02A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW03 0-4'	E404061-03A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW04 0-1'	E404061-04A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 2:45:54PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

SW01 0-4'
E404061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		125 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		87.2 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		125 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		87.2 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2415026	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		109 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2415022	
Chloride	25.5	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: RDX 16-9H
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/16/2024 2:45:54PM

SW02 0-4'

E404061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		111 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		120 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		111 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		120 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		109 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	29.3	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: RDX 16-9H
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/16/2024 2:45:54PM

SW03 0-4'

E404061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/10/24	04/12/24	
Surrogate: Toluene-d8	102 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/10/24	04/12/24	
Surrogate: Toluene-d8	102 %	70-130		04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	111 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	30.4	20.0	1	04/10/24	04/10/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16-9H	Reported: 4/16/2024 2:45:54PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

SW04 0-1'
E404061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/12/24	
Toluene	ND	0.0250	1	04/10/24	04/12/24	
o-Xylene	ND	0.0250	1	04/10/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		122 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/12/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/10/24	04/12/24	
Surrogate: Toluene-d8		122 %	70-130	04/10/24	04/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		111 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415022
Chloride	28.8	20.0	1	04/10/24	04/10/24	



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:	Gilbert Moreno	4/16/2024 2:45:54PM

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 (2415030-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.57	0.0250	2.50		103	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.7	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.72	0.0250	2.50		109	70-130			
p,m-Xylene	5.42	0.0500	5.00		108	70-130			
Total Xylenes	8.14	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.1	70-130			

Matrix Spike (2415030-MS1) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.23	0.0250	2.50	ND	89.3	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.8	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike Dup (2415030-MSD1) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	1.40	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	1.10	27	
Toluene	2.39	0.0250	2.50	ND	95.8	48-130	7.03	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	7.07	27	
p,m-Xylene	5.17	0.0500	5.00	ND	103	43-135	6.60	27	
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135	6.76	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	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:	Gilbert Moreno	4/16/2024 2:45:54PM

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 (2415030-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	64.4	20.0	50.0		129	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2415030-MS2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike Dup (2415030-MSD2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	0.496	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	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:	Gilbert Moreno	4/16/2024 2:45:54PM

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 (2415026-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.2		50.0		114	50-200			

LCS (2415026-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS Dup (2415026-BSD1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132	0.233	20	
Surrogate: n-Nonane	56.1		50.0		112	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:	Gilbert Moreno	4/16/2024 2:45:54PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2415022-BLK1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	ND	20.0							
LCS (2415022-BS1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415022-BSD1)					Prepared: 04/09/24 Analyzed: 04/09/24				
Chloride	251	20.0	250		100	90-110	0.223	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:	Gilbert Moreno	04/16/24 14:45

- 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

Client: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program	
Project: RDX 16-9H		Attention: Jim Raley		Lab WO#		1D 2D 3D		Standard CWA SDWA	
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E 404061		Job Number		01058-0007	
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method		5 Day TAT		RCRA	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502		Depth (ft.)		State		NM CO UT AZ TX	
Phone: 832-541-7719		Email: jim.raley@dvn.com		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260	
Email: Devon-team@etechnv.com		WBS/WO: 21191055		Metals 6010		Chloride 300.0		TDS	
Collected by: Gilbert Moreno		Incident ID: See Remarks		Cation/Anion		BGDOC NM		TX	

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	TDS	Cation/Anion	BGDOC NM	TX	Remarks
14:20	4.9.24	S	1	SW01	1	0-4'								X		nAPP2322658221
14:30	4.9.24	S	1	SW02	2	0-4'								X		nAPP2317840368
14:40	4.9.24	S	1	SW03	3	0-4'								X		
14:50	4.9.24	S	1	SW04	4	0-1'								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.

Sampled by: GM

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 Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Enrique</i>	4.9.24	0930	<i>Michelle Gonzales</i>	4.9.24	0930	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	4.9.24	1622	<i>A. J.</i>	4.9.24	1715	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>J.M.</i>	4.9.24	2330	<i>Amir</i>	4/10/24	845	

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: 4/10/2024 2:08:58PM

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@etechenv.com

Date Received: 04/10/24 08:45
 Date Logged In: 04/09/24 17:28
 Due Date: 04/16/24 17:00 (4 day TAT)

Work Order ID: E404061
 Logged In By: Angelina Pineda

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

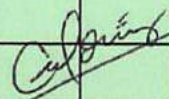
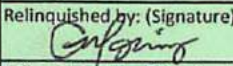


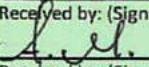
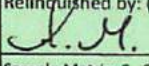
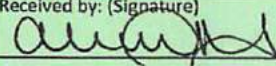


envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program				
Project: RDX 16-9H				Attention: Jim Raley		Lab WO# E404061		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.									5 Day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220										RCRA				
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502														
Phone: 832-541-7719				Email: jim.raley@dmv.com														
Email: Devon-team@etechnv.com				WBS/WO: 21191055														
Collected by: Gilbert Moreno				Incident ID: See Remarks														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/CRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC	NM	TX	GDGC	Remarks
14:20	4-9-24	S	1	SW01	1	0-4'								X				nAPP2322658221
14:30	4-9-24	S	1	SW02	2	0-4'								X				nAPP2317840368
14:40	4-9-24	S	1	SW03	3	0-4'								X				
14:50	4-9-24	S	1	SW04	4	0-1'								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. Sampled by: GM																		
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										
		4.9.24	0930			4.9.24	0930	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
		4.9.24	1622			4.9.24	1715											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
		4.9.24	2330			4/10/24	845	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

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16-9H

Work Order: E404060

Job Number: 01058-0007

Received: 4/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/24

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: 4/16/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16-9H
Workorder: E404060
Date Received: 4/10/2024 8:45:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 8:45:00AM, 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
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Cell: 775-287-1762
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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:	Gilbert Moreno	04/16/24 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05 0-1'	E404060-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW06 0-4'	E404060-02A	Soil	04/08/24	04/10/24	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: Gilbert Moreno	Reported: 4/16/2024 2:48:31PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

SW05 0-1'
E404060-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.4 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.4 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2415026	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		110 %	50-200	04/10/24	04/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2415036	
Chloride	9750	200	10	04/10/24	04/10/24	

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16-9H Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/16/2024 2:48:31PM
--------------------------------------------------------------------	------------------------------------------------------------------------------------------	----------------------------------

SW06 0-4'
E404060-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		87.0 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		87.0 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		108 %	50-200	04/10/24	04/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	10100	200	10	04/10/24	04/10/24	



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:	Gilbert Moreno	4/16/2024 2:48:31PM

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 (2415030-BLK1)

Prepared: 04/10/24 Analyzed: 04/11/24

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	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS1)

Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.57	0.0250	2.50		103	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.7	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.72	0.0250	2.50		109	70-130			
p,m-Xylene	5.42	0.0500	5.00		108	70-130			
Total Xylenes	8.14	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.1	70-130			

Matrix Spike (2415030-MS1)

Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.23	0.0250	2.50	ND	89.3	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.8	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike Dup (2415030-MSD1)

Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	1.40	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	1.10	27	
Toluene	2.39	0.0250	2.50	ND	95.8	48-130	7.03	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	7.07	27	
p,m-Xylene	5.17	0.0500	5.00	ND	103	43-135	6.60	27	
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135	6.76	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	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:	Gilbert Moreno	4/16/2024 2:48:31PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2415030-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	64.4	20.0	50.0		129	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2415030-MS2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike Dup (2415030-MSD2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	0.496	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	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:	Gilbert Moreno	4/16/2024 2:48:31PM

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 (2415026-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.2		50.0		114	50-200			

LCS (2415026-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS Dup (2415026-BSD1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132	0.233	20	
Surrogate: n-Nonane	56.1		50.0		112	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:	Gilbert Moreno	4/16/2024 2:48:31PM

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 (2415036-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	ND	20.0							
LCS (2415036-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415036-MS1)					Source: E404058-25		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	262	20.0	250	ND	105	80-120			
Matrix Spike Dup (2415036-MSD1)					Source: E404058-25		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	263	20.0	250	ND	105	80-120	0.459	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:	Gilbert Moreno	04/16/24 14:48

- 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.



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: 4/10/2024 1:48:42PM

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@etechnv.com

Date Received: 04/10/24 08:45
 Date Logged In: 04/09/24 17:24
 Due Date: 04/16/24 17:00 (4 day TAT)

Work Order ID: E404060
 Logged In By: Angelina Pineda

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 (pca 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.



envirotech

APPENDIX F

Soil Sampling Logs



Sample Name: PH15	Date: 04/16/2024
Site Name: RDX 16 #009	
Incident Number: nAPP2317840368 & nAPP2322658221	
Job Number: 18317	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK	Method: Backhoe
---------------	-----------------

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 4'

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	0.5	No	PH15	0 0.5	0	CCHE	(0-4') CALICHE, dry, tan, fine to coarse grain, some gravel trace silt, no stain, no odor.
Dry	<116	1.1	No		1	1		
Dry	708	1.2	No		2	2		
						3		
Dry	592	0.3	No	PH15	4	4		

Total Depth

APPENDIX G

Correspondence & Notifications

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, September 21, 2023 2:24 PM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: (Extension Approval) - RDX 16-9H - nAPP2317840368 and nAPP2322658221

RE: Incident #**NAPP2317840368** and **NAPP2322658221**

Jim,

Your request for an extension to **December 23rd, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, September 21, 2023 9:46 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Devon-Team <Devon-Team@etechemv.com>
Subject: [EXTERNAL] RDX 16-9H Extension Request - nAPP2322658221 and nAPP2322658221

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

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16 #009 (Site).

A produced water release was discovered on June 26, 2023, and subsequently assigned Incident Number nAPP2317840368. Note: the date of discovery for this release on the initial C-141 is incorrect and will be updated on the Final C-141. A cultural survey was completed for the proposed work area in pasture soil to conduct delineation activities. Cultural is finalizing a report for State Land Office (SLO) and will be sent for review. An additional inadvertent release of produced water occurred on August 14, 2023 (nAPP2322658221) and overlapped the area impacted by nAPP2322658221, therefore additional investigation and planning are warranted to allow cultural and the State Land Office to provide additional clearance for corrective actions to address both incidents.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nAPP2317840368 and nAPP2322658221 to **December 23, 2023**.

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



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

QUESTIONS

Action 329007

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 329007
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/26/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,422
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/08/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to site GPS (32.0453, -103.8901).

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CONDITIONS

Action 329007

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 329007
	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.	4/2/2024

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QUESTIONS

Action 329031

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 329031
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322658221
Incident Name	NAPP2322658221 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	08/14/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,422
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/08/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to site GPS (32.0453, -103.8901).

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CONDITIONS

Action 329031

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 329031
	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.	4/2/2024

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QUESTIONS

Action 332455

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 332455
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/26/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,422
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to Site GPS (32.0453, -103.8901).

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CONDITIONS

Action 332455

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 332455
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jrale	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.	4/11/2024

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QUESTIONS

Action 332457

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 332457
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322658221
Incident Name	NAPP2322658221 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source

Site Name	RDX 16 #009
Date Release Discovered	08/14/2023
Surface Owner	State

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	10,422
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to Site GPS (32.0453, -103.8901).

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CONDITIONS

Action 332457

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 332457
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jrale	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.	4/11/2024

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QUESTIONS

Action 341030

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 341030
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	06/26/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,062
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to Site GPS (32.0453, -103.8901).

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CONDITIONS

Action 341030

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 341030
	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.	5/6/2024

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QUESTIONS

Action 341033

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 341033
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322658221
Incident Name	NAPP2322658221 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Site Name	RDX 16 #009
Date Release Discovered	08/14/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,062
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd, and Pipeline Rd, Go east on Pipeline Rd for 3.2 mi; turn right for 1.34 mi; left for 0.27 mi to Site GPS (32.0453, -103.8901).

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CONDITIONS

Action 341033

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 341033
	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.	5/6/2024

APPENDIX H

Archived Reports



SITE CHARACTERIZATION AND REMEDIATION PLAN

RDX 16 #009

Eddy County, New Mexico

Incident Numbers

nAPP2317840368

nAPP2322658221

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 Site Characterization and Remediation Plan (SCRP) detailing delineation soil sampling activities at the RDX 16 #009 (Site) associated with two inadvertent releases of crude oil and produced water. Based on the site characterization and laboratory analytical results from recent soil sampling events, WPX proposes this SCR, which summarizes corrective actions and details remediation objectives to rectify environmental impacts.

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**).

Incident Number nAPP2317840368

On June 26, 2023, it was discovered that a water transfer pump was inadvertently left off causing a release of approximately 50 barrels (bbls) of crude oil and 522 bbls of produced water within an earthen bermed tank battery containment. Fluids escaped the containment and flowed onto the pad surface and adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 40 bbls of crude oil and 480 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld Geospatial Positioning System (GPS) receiver, which is presented as Release Area #1 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the New Mexico Oil Conservation Division (NMOCD) via email and on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 27, 2023, which was subsequently assigned Incident Number nAPP2317840368. It should be noted that the date of the release discovery on the initial C-141 is incorrect, which was communicated to the NMOCD via email and can be referenced in **Appendix B**.

In July 2023, WPX conducted initial restoration of pad surfaces within and around the earthen bermed tank battery containment. Further remediation to include pasture soils required an approved Right-of-Entry (ROE) permit prior to ground disturbance. As a result, on July 20, 2023, SWCA Environmental Consultants (SWCA) was retained to conduct a cultural survey of the Site, which was completed on August 3, 2023. Following the finalized cultural survey of the Site, an ROE permit was submitted on October 5, 2023, and issued on October 31, 2023.

Incident Number nAPP2322658221

On August 14, 2023, it was discovered that a breaker to the water transfer pump tripped during a power outage causing a release of approximately 149 barrels bbls of produced water within the same earthen bermed tank battery containment as Incident Number nAPP2317840368. All fluids remained within the earthen bermed tank battery containment. A vacuum truck was dispatched to the Site and recovered approximately 110 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld GPS receiver, which is presented as Release Area #2 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the NMOCD via email and on a Form C-141 on August 14, 2023, which was subsequently assigned Incident Number nAPP2322658221.

Due to the delay of land access caused by ROE permitting processes, an extension to complete remediation activities and prepare a report for both incidents was requested and granted by the NMOCD for December 23, 2023.

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 off a nearby soil boring advanced by Atkins Engineering Associates, Inc., located approximately 0.21 miles west of the Site. Soil boring (C-04068-POD1) was advanced on May 11, 2017, via a truck mounted drill rig equipped with a hollow stem auger 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 well log for the referenced soil boring is provided in **Appendix C**. The soil boring location and other nearby soil borings and/or regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

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 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 [†]
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 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

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

DELINEATION SOIL SAMPLING ACTIVITIES

On October 19 and November 9, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the two overlapping subject release areas, henceforth

combined into one area and referred to as the Area of Concern (AOC). Fourteen delineation potholes (PH01 through PH14) were advanced via mechanical equipment within and surrounding the AOC. 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 minimum of two samples were collected from each delineation 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 D**. The delineation soil sample locations and the AOC are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix E**.

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, Inc Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples collected surrounding the AOC and assisting with lateral delineation (PH07 through PH10, PH11 PH13, and PH14) were compliant with Site Closure Criteria and/or the reclamation standard.

Laboratory analytical results for samples collected within the AOC (PH01 through PH06, and PH12) indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standard, however, chloride and/or TPH-GRO+TPH-DRO/TPH concentrations exceeded the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 4,050 mg/kg to 25,500 mg/kg. Laboratory analytical results are summarized in **Table 1** included in **Appendix F**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix G**.

PROPOSED REMEDIATION PLAN

Based on the delineation soil sampling results, the following conclusions regarding the inadvertent releases are presented:

- Laboratory analytical results for delineation soil samples PH07 through PH10, PH11, PH13, and PH14 indicated all concentrations of the COCs were below the Site Closure Criteria and/or reclamation standard, which sufficiently defines the horizontal periphery of the AOC.
- Laboratory analytical results for the terminus depth of all delineation soil samples indicated all concentrations of the COCs were below Site Closure Criteria, which sufficiently defines the vertical extent of the AOC.
- Laboratory analytical results indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standards for all delineation soil samples.
- Laboratory analytical results for delineation soil samples collected within the AOC indicated concentrations of chloride and TPH-GRO+TPH-DRO/TPH exceeding the Site Closure Criteria and/or reclamation standard exist up to 4 feet bgs, which are characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg and 4,050 mg/kg to 25,500 mg/kg, respectively. TPH concentrations only appear to exist in the proximity of soil sample locations PH01 through PH03, which dramatically decrease below Site Closure Criteria before 4 feet bgs.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- WPX proposes to advance excavation activities to remove residual impacts greater than Site Closure Criteria according to delineation soil sample analytical laboratory results to the Maximum Extent Practical (MEP) and to leave residual impacts, classified as in compliance Site Closure Criteria but greater than reclamation standards, in place until the Site undergoes major deconstruction or plugging and abandonment activities, whichever occurs first. As such, approximately 365 cubic yards of residually impacted soil are anticipated to be excavated and removed from the Site (**Figure 3** in **Appendix A**). Following the removal of soil, confirmation 5-point composite soil samples will be collected from the excavation and submitted to an accredited laboratory for analysis of chloride, TPH, and BTEX.
 - Due to the large AOC square footage (10,422 square feet), WPX requests a sampling variance of which confirmation soil samples represent a maximum of 400 square feet per soil sample. As such, 30 samples are anticipated to be collected from the excavation floors sidewalls compared to 59 samples utilizing a frequency of 200 square feet.
- While excavating residual impacts as defined by Site Closure Criteria, proposed excavation areas may require additional oversight and supplementary safety measures near surface and/or subsurface pipelines and production equipment before or during excavation activities. WPX and/or a third-party operator may implement additional safety precautions above encroachment guidelines at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities. Such implemented restrictions may inflict, but are not limited to the following:
 - Decreasing the proposed excavation depth(s) in order to maintain surface and/or subsurface utility and production equipment stability.
 - Decreasing or altering the proposed excavation extent(s) in order to maintain surface and/or subsurface utility and production equipment stability.
- Impacted soil will be transported to a nearby landfill facility for disposal under approved WPX waste manifests.
- Once remediation is complete and receipt of excavation confirmation soil sample results indicates soil concentrations exceeding Site Closure Criteria has been removed and/or excavated to the MEP, WPX will backfill the excavation(s) with clean, locally sourced soil and restored to "as close to its original state" as possible and determine the next appropriate measure of corrective action:
 - Documenting excavation activities to the MEP and the presence of residual impacts left in place immediately adjacent to and under active production equipment and/or utilities with a subsequent Deferral Report detailing assessment and sampling activities or
 - Preparing a SCRP Addendum detailing the next course of remedial actions to address the presence of potential remaining soil impacts and the Site, based off an estimated lateral and vertical extent of impacted soil from assessment and delineation activities.

PROPOSED SCHEDULE

Upon the notice of NMOCD approval of this SCRP, WPX will begin the proposed remediation activities outlined above and provide a report detailing completed remediation activities for Incident Numbers nAPP2317840368 and nAPP2322658221.

If you have any questions or comments, please do not hesitate to contact Anna Byers at (575) 200-6754 or anna@etechenv.com or Gilbert Moreno (832) 541-7719 or gilbert@etechenv.com. **Appendix B** provides correspondence email notification receipts associated with the subject release.

Sincerely,
Etech Environmental and Safety Solutions, Inc.



Gilbert Moreno
Project Geologist



Anna Byers
Senior 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 1B: Site Characterization Map – Surficial Receptors
Figure 1C: Site Characterization Map – Subsurface Receptors
Figure 2: Delineation Soil Sample Locations
Figure 3: Proposed Excavation Extents
- Appendix B:** NMOCD Notifications
- Appendix C:** Referenced Well Records
- Appendix D:** Lithologic Sampling Logs
- Appendix E:** Photographic Log
- Appendix F:** Tables
- Appendix G:** Laboratory Analytical Reports & Chain-of-Custody Documentation

APPENDIX A

Figures

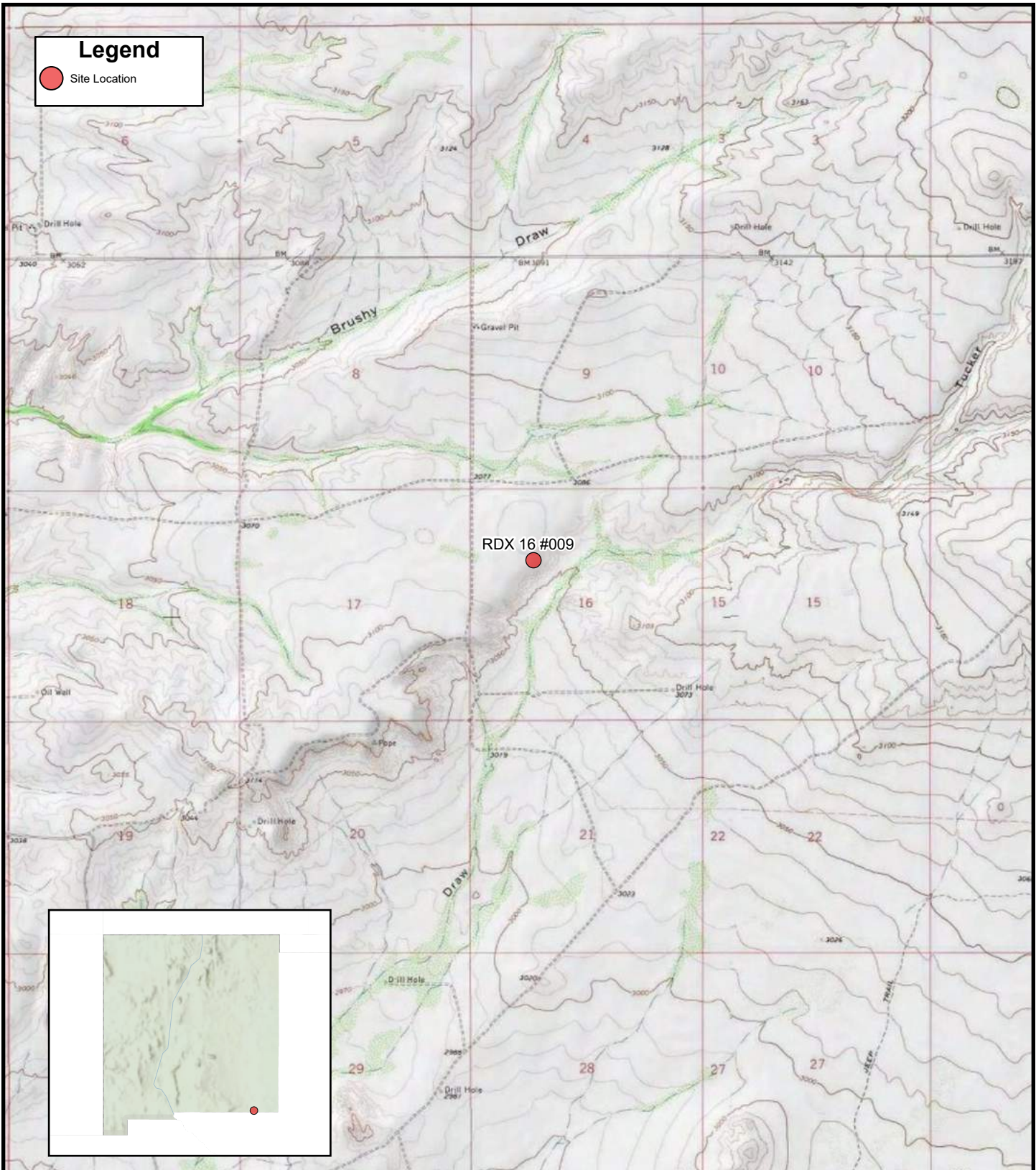


FIGURE 1

Site Location Map

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



0 2,000 4,000 Feet

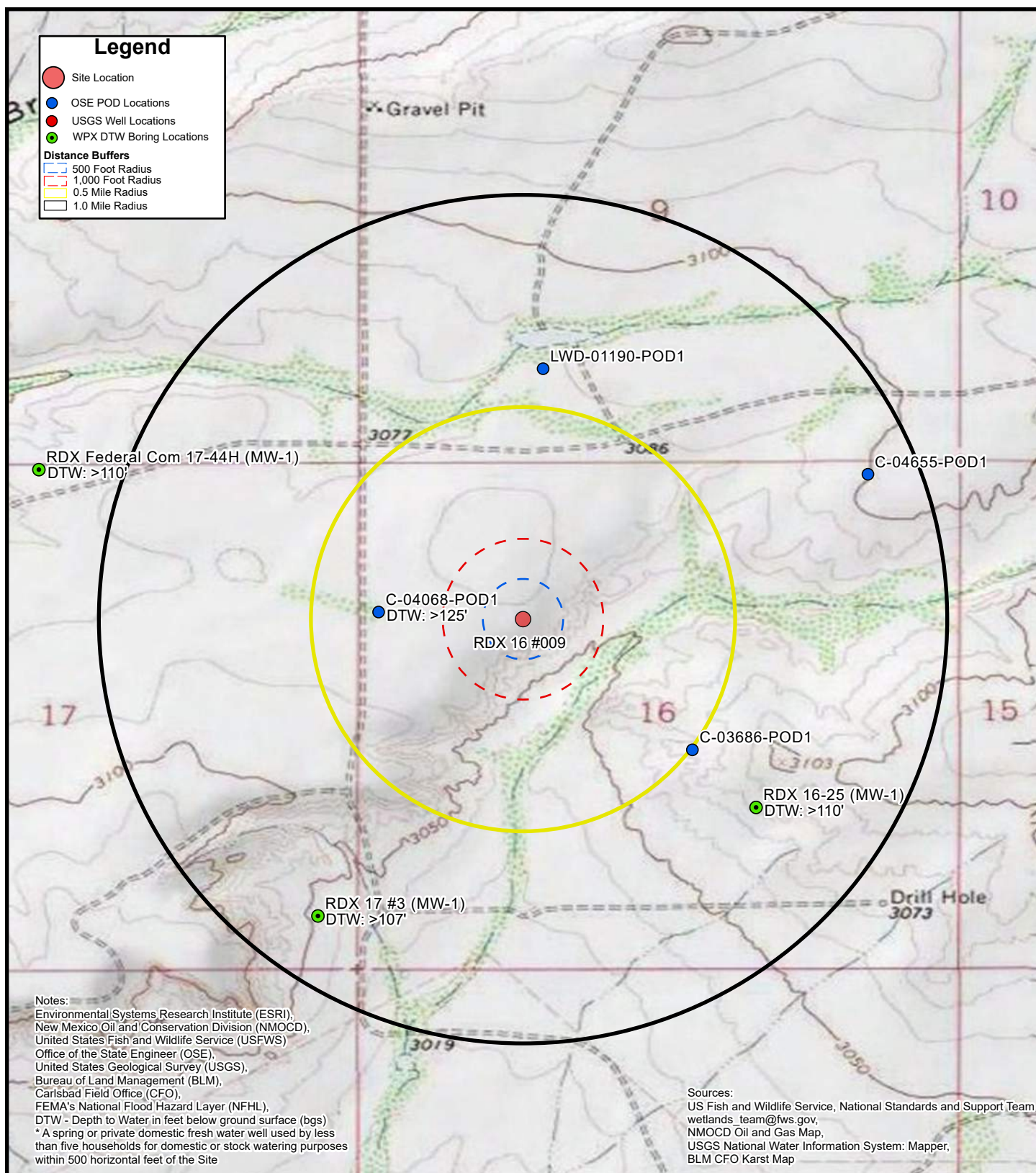
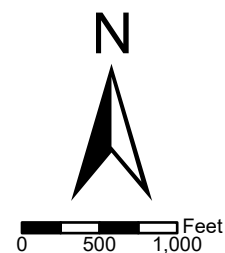


FIGURE 1A Site Characterization Map Ground Water

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



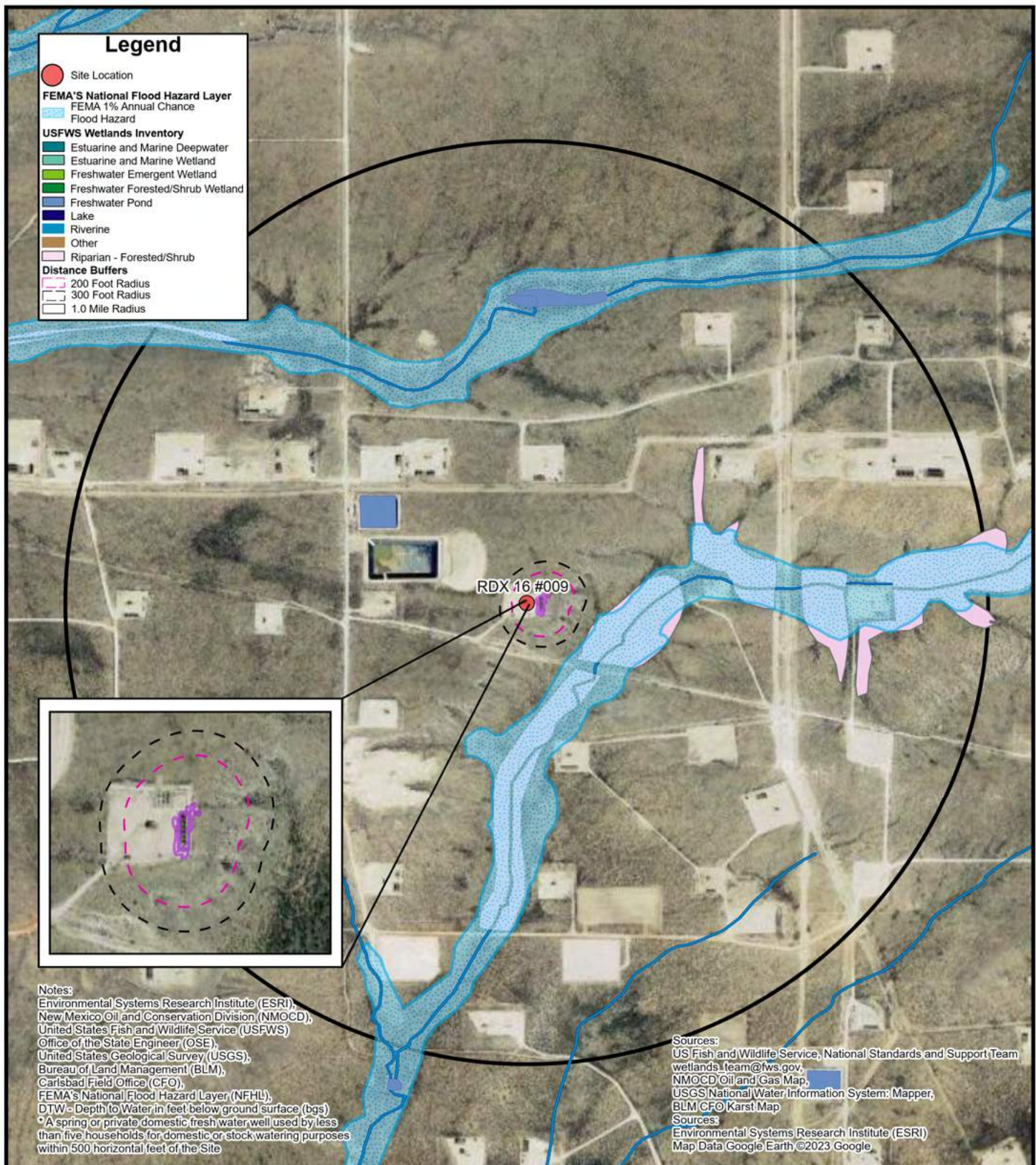
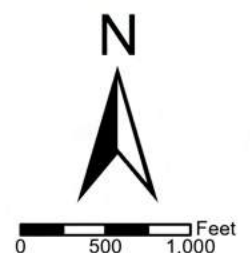
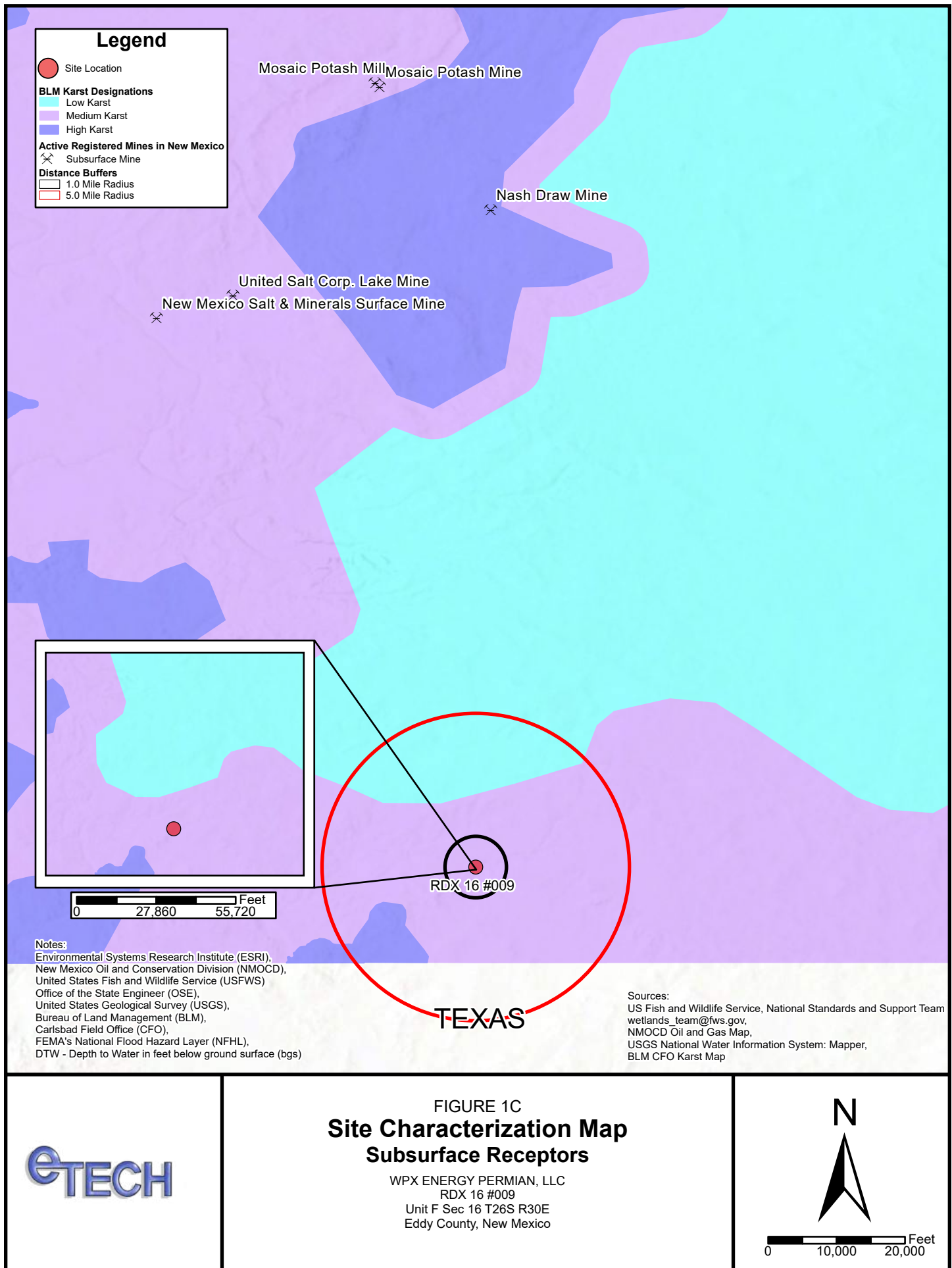


FIGURE 1B
Site Characterization Map
Surficial Receptors

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

eTECH





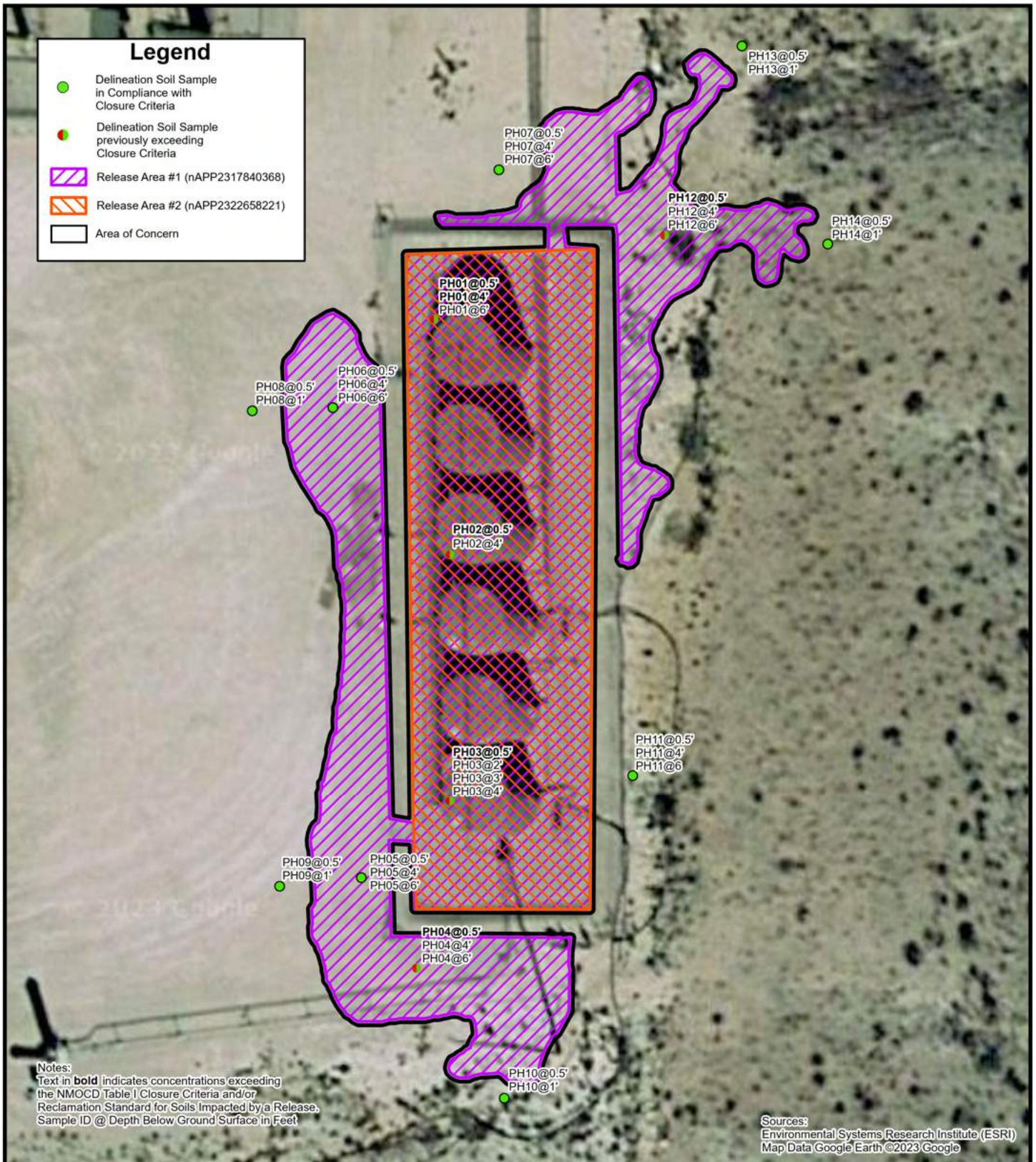
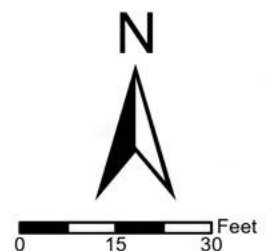


FIGURE 2

Delineation Soil Sample Locations

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

eTECH



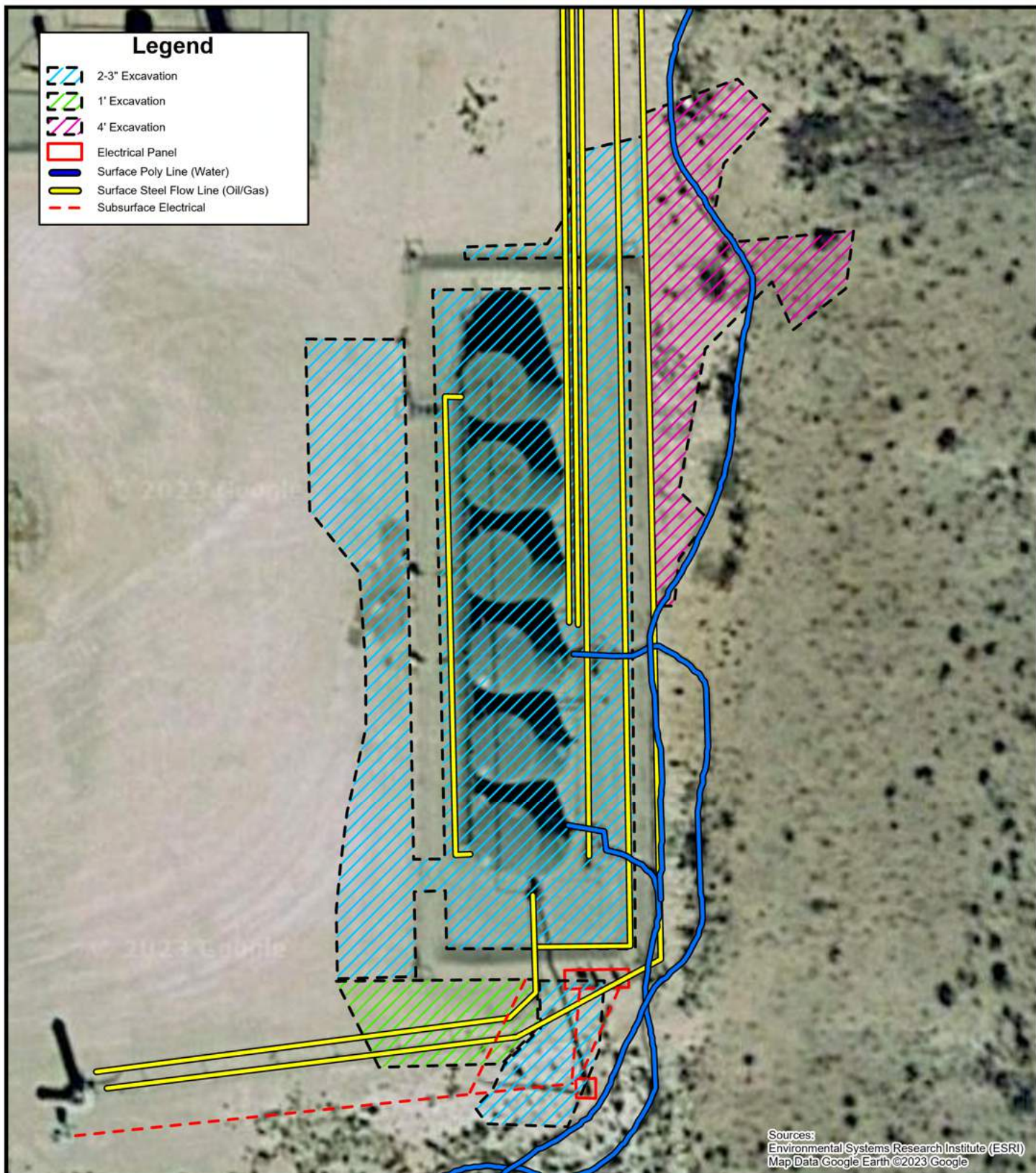
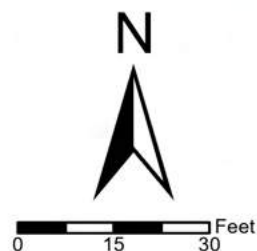


FIGURE 3

Proposed Excavation Extents

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

eTECH



APPENDIX B

NMOCD Notifications

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, September 21, 2023 2:24 PM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: (Extension Approval) - RDX 16-9H - nAPP2317840368 and nAPP2322658221

RE: Incident #NAPP2317840368 and NAPP2322658221

Jim,

Your request for an extension to **December 23rd, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, September 21, 2023 9:46 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Devon-Team <Devon-Team@etechnv.com>
Subject: [EXTERNAL] RDX 16-9H Extension Request - nAPP2322658221 and nAPP2322658221

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

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16 #009 (Site).

A produced water release was discovered on June 26, 2023, and subsequently assigned Incident Number nAPP2317840368. Note: the date of discovery for this release on the initial C-141 is incorrect and will be updated on the Final C-141. A cultural survey was completed for the proposed work area in pasture soil to conduct delineation activities. Cultural is finalizing a report for State Land Office (SLO) and will be sent for review. An additional inadvertent release of produced water occurred on August 14, 2023 (nAPP2322658221) and overlapped the area impacted by nAPP2322658221, therefore additional investigation and planning are warranted to allow cultural and the State Land Office to provide additional clearance for corrective actions to address both incidents.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nAPP2317840368 and nAPP2322658221 to **December 23, 2023**.

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



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

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, October 11, 2023 5:15 PM
To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Hall, Brittany, EMNRD
Cc: Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

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

Thank you,

Shelly

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

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 11, 2023 3:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.rale@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

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

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 16th through October 20th, 2023:

Proposed Date: October 16, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDU 34
Incident Number: nAPP2326833391
API: 30-015-41578

Proposed Date: October 17, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDX Federal 21 #031
Incident Number: nAPP2326847671

API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, November 6, 2023 9:18 AM
To: Erick Herrera; eco@slo.state.nm.us
Cc: Raley, Jim; Devon-Team; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368) 6/26/2023 & (nAPP2322658221) 8/14/2023

Hi Erick,

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

Thank you,

Shelly

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

From: Erick Herrera <erick@etechenv.com>
Sent: Monday, November 6, 2023 7:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us
Cc: Raley, Jim <jim.ralej@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368) 6/26/2023 & (nAPP2322658221) 8/14/2023

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

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between November 9, 2023 & November 10, 2023:

Site Name: RDX 16 #009
Proposed Timeframe: 0800 – 1700 hrs.
Incident Numbers: nAPP2317840368 & nAPP2322658221
API: 30-015-39752

Thank you,

Erick Herrera
Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

APPENDIX C

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

237 117 17 54 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 Tulsa		STATE OK		ZIP 74172		
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS							
		LATITUDE	32	2	43.95	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
		LONGITUDE	103	53	39.23	W	* DATUM REQUIRED: WGS 84					
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:							STATIC WATER LEVEL IN COMPLETED WELL (FT)				
	<input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)							n/a				
	DRILLING FLUID:							ADDITIVES - SPECIFY:				
	<input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD											
	DRILLING METHOD:							OTHER - SPECIFY:				
	<input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/>							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	210S-30E-11a-1-3-1				EXPL
					PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL.

FILE NUMBER	C-4068	POD NUMBER	1	TRN NUMBER	606777
LOCATION	26S 30E-112-1.3-1			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

Lithologic Sampling Logs



Sample Name: PH01

Date: 10/19/2023 & 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200


Hole Diameter: N/A


Total Depth: 6'

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	4,400	51.7	No	PH01	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	9,232	6.4	No		0.5			
Dry	14,780	2.5	No		1	1		
Dry	14,780	0.4	No		2	2		
Dry	7,764	0.3	No	PH01	3	3		
Dry	708	0	No	PH01	4	4		
					5	5		
					6	6		

Total Depth

					Sample Name: PH02		Date: 10/19/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					Hole Diameter: N/A		Total Depth: 4'	
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	4,060	93	No	PH02	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	7,764	76	No		0.5			
Dry	18,384	0	No		1	1		
Dry	1,696	0	No		2	2		
Dry	1,584	0	No	PH02	3	3		
					4	4		
Total Depth								

					Sample Name: PH03		Date: 10/19/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					Hole Diameter: N/A		Total Depth: 4'	
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	4,060	202.3	No	PH03	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	900	93.1	No		0.5			
Dry	188	8.2	No	PH03	1	1		
Dry	<112	3.8	No	PH03	2	2		
Dry	444	0.3	No	PH03	3	3		
Dry					4	4		
Total Depth								



Sample Name: PH04 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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	26,960	0.4	No	PH04	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	7,764	0.2	No		0.5			
					1	1		
Dry	3,180	0	No		2	2		
						3		
Dry	592	0	No	PH04	4	4		
					5	5		
Dry	248	0	No	PH04	6	6		

Total Depth



Sample Name: PH05

Date: 10/19/2023 & 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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	14,780	0.5	No	PH05	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	6,576	0.3	No		0.5			
					1	1		
Dry	3,180	0	No		2	2		
						3		
Dry	140	0	No	PH05	4	4		
					5	5		
Dry	164	0	No	PH05	6	6		

Total Depth



Sample Name: PH06 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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	No	PH06	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	900	0	No		0.5			
					1	1		
Dry	708	0	No		2	2		
						3		
Dry	<112	0	No	PH06	4	4		
					5	5		
Dry	164	0	No	PH06	6	6		

Total Depth



Sample Name: PH07 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200


Hole Diameter: N/A


Total Depth: 6'


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	<112	0	No	PH07	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No		0.5			
					1	1		
Dry	<112	0	No		2	2		
						3		
Dry	<112	0	No	PH07	4	4		
					5	5		
Dry	<112	0	No	PH07	6	6		

Total Depth

					Sample Name: PH08		Date: 10/19/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					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	396	0	No	PH08	0 0.5	0 ---	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	216	0	No	PH08	1	1		
Total Depth								

					Sample Name: PH09		Date: 10/19/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					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	192	0	No	PH09	0 0.5	0	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No	PH09	1	1		
Total Depth								

					Sample Name: PH10		Date: 10/19/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Hand Auger	
Site Coordinates: 32.0453507, -103.8899200					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	<112	0	No	PH10	0 0.5	0 1	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (0.5-1cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH10	1	1		
Total Depth								



Sample Name: PH11

Date: 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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	<112	0	No	PH11	0	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor. (1-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No		0.5			
					1	1	CCHE	
Dry	<112	0	No		2	2		
						3		
Dry	<112	0	No	PH11	4	4		
					5	5		
Dry	<112	0	No	PH11	6	6		

Total Depth



Sample Name: PH12

Date: 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200


Hole Diameter: N/A


Total Depth: 6'

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	14,780	0	No	PH12	0	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor. (1-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	14,780	0	No		0.5			
Dry	14,780	0	No		1	1	CCHE	
Dry	14,780	0	No		2	2		
Dry	14,780	0	No			3		
Dry	14,780	0	No	PH12	4	4		
					5	5		
Dry	972	0	No	PH12	6	6		

Total Depth

					Sample Name: PH13		Date: 11/09/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					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	<112	0	No	PH13	0 0.5	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH13	1	1	CCHE	@ 1' CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Total Depth								

					Sample Name: PH14		Date: 11/09/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					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	<112	0	No	PH14	0 0.5	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH14	1	1	CCHE	@ 1' CALICHE, dry, tan, fine to coarse grain, well graded some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Total Depth								

APPENDIX E

Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

nAPP2317840368 & nAPP2322658221

Date & Time: Tue, Jun 27, 2023 at 09:19:40 MDT
 Position: +032.045549° / -103.889474° (±15.6ft)
 Altitude: 3100ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 223° S43W 3964mils True (±12°)
 Elevation Angle: -12.9°
 Horizon Angle: -01.0°
 Zoom: 0.5X
 Release extent

**Photograph 1****Date:06/27/2023**

Description: Southwestern view of release extent during site assessment activities.

Date & Time: Thu, Jul 13, 2023 at 09:04:01 MDT
 Position: +032.044953° / -103.889776° (±15.1ft)
 Altitude: 3087ft (±10.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 039° N39E 0693mils True (±12°)
 Elevation Angle: -15.9°
 Horizon Angle: -00.1°
 Zoom: 0.5X
 0.5 clean up

**Photograph 2****Date:07/13/2023**

Description: Northeastern view of initial restoration activities on the pad surface.

**Photograph 3****Date:08/14/2023**

Description: Southeastern view of release extent during site assessment activities.

**Photograph 4****Date:10/19/2023**

Description: Northwestern view of delineation activities near PH01.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

nAPP2317840368 & nAPP2322658221

**Photograph 5****Date:10/19/2023**

Description: Southeastern view of delineation activities near PH03.

**Photograph 6****Date:10/19/2023**

Description: Southwestern view of delineation activities near PH04.

**Photograph 7****Date:11/09/2023**

Description: Southwestern view of delineation activities near PH12.

**Photograph 8****Date:11/09/2023**

Description: Southwestern view of delineation activities near PH14.

APPENDIX F

Tables



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
Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
PH01	10/19/2023	0.5	<0.0250	0.0335	<20.0	4,050	1,940	4,050	5,990	4,760
PH01	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23,300
PH01	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	482
PH02	10/19/2023	0.5	<0.0250	<0.0500	69.7	5,870	2,280	5,940	8,220	5,060
PH02	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,440
PH03	10/19/2023	0.5	<0.0250	3.47	133	18,200	7,160	18,300	25,500	4,840
PH03	10/19/2023	2	<0.0250	<0.0500	<20.0	33.7	<50.0	33.7	33.7	236
PH03	10/19/2023	3	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	25.2	37.8
PH03	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	489.0
PH04	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25,200
PH04	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
PH04	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
PH05	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	17,700
PH05	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	155
PH05	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
PH06	10/19/2023	0.5	<0.0250	<0.0500	<20.0	32.0	<50.0	32.0	32.0	11,600
PH06	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.9
PH06	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
PH07	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.4
PH07	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.5
PH07	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.9
PH08	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
PH08	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
PH09	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
PH09	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.7
PH10	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
PH10	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25.2
PH11	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
PH11	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH11	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200



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
Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
PH12	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,400
PH12	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,700
PH12	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	960
PH13	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.7
PH13	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH14	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
PH14	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: 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 † for Soils Impacted by a Release
† 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.

APPENDIX G

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: E310209

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310209
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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

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Laboratory Administrator
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labadmin@envirotech-inc.com

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Envirotech Web Address: 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	10/27/23 14:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E310209-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH01 4'	E310209-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 0.5'	E310209-03A	Sludge	10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 4'	E310209-04A	Soil	10/19/23	10/23/23	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: 10/27/2023 2:09:04PM
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PH01 0.5'

E310209-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	0.0335	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	0.0335	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		105 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		105 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	4050	250	10	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	1940	500	10	10/23/23	10/25/23	
Surrogate: n-Nonane		88.1 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	4760	40.0	2	10/25/23	10/27/23	



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	10/27/2023 2:09:04PM

PH01 4'
E310209-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	23300	1000	50	10/25/23	10/27/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 2:09:04PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH02 0.5'

E310209-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	69.7	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	5870	125	5	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	2280	250	5	10/23/23	10/25/23	
Surrogate: n-Nonane		87.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	5060	100	5	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 2:09:04PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH02 4'

E310209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2343042	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/24/23	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		10/24/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	2440	40.0	2	10/25/23	10/27/23	



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	10/27/2023 2:09:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	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	10/27/2023 2:09:04PM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2343044-BLK1)Prepared: 10/24/23 Analyzed: 10/26/23

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	7.67		8.00		95.9	70-130			

LCS (2343044-BS1)Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	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	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			

Matrix Spike (2343044-MS1)Source: E310226-02Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2343044-MSD1)Source: E310226-02Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.61	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	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	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2)

Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2)

Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	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	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343044-BLK1) Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2343044-BS2) Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2343044-MS2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2343044-MSD2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	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	10/27/2023 2:09:04PM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 2:09:04PM

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 (2343042-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	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	10/27/2023 2:09:04PM

Anions by EPA 300.0/9056A

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 (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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	10/27/23 14:09

- 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 WOVN		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 310209		Job Number		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: jlm.raley@dm.com									
Email: Devon-team@etechnv.com					WO: 21191055									
					Incident ID: nAPP2322658221, nAPP2317840368									
Collected by: Edyte Konan														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GC/MS/TOC by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 500.9	SGDOC NM	TX 3009	Remarks
9:00	10.19.23	S	1	PH01	1	0.5'						X		
9:10	10.19.23	S	1	PH01	2	4'						X		
9:20	10.19.23	S	1	PH02	3	0.5'						X		
9:30	10.19.23	S	1	PH02	4	4'						X		
10/20/2023														
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: GM														
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						
<i>[Signature]</i>		10/20/23	10:45	Michelle Gonzales		10-20-23	1045	Received on Ice: <input checked="" type="checkbox"/> N						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3						
Michelle Gonzales		10-20-23	1700	<i>[Signature]</i>		10-23-23	8:15							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4						
Sample Matrix: S - Soil, 3d - 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: 10/23/2023 1:01:52PM

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:	10/23/23 08:15	Work Order ID:	E310209
Phone:	(539) 573-4018	Date Logged In:	10/23/23 10:31	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310203

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310203
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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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	10/27/23 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 0.5'	E310203-01A	Soil	10/19/23	10/23/23	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	10/27/2023 10:13:05AM

PH03 0.5'

E310203-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	0.790	0.0250	1	10/23/23	10/25/23	
Toluene	0.226	0.0250	1	10/23/23	10/25/23	
o-Xylene	2.03	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	0.424	0.0500	1	10/23/23	10/25/23	
Total Xylenes	2.45	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		114 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	133	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		114 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	18200	1250	50	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	7160	2500	50	10/23/23	10/24/23	
Surrogate: n-Nonane		127 %	50-200	10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043	
Chloride	4840	40.0	2	10/24/23	10/24/23	



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	10/27/2023 10:13:05AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	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	10/27/2023 10:13:05AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	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	10/27/2023 10:13:05AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 10:13:05AM

Anions by EPA 300.0/9056A

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 (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2

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	10/27/23 10:13

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- 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# E310203		Job Number 11058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E310203		11058-0007		5 day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220											RCRA
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502											
Phone: 892-541-7719				Email: ilm.raley@dmv.com											
Email: Devon-team@etechnv.com				WO: 21191055											
				Incident ID: nAPP2322658221, nAPP2317840368											
Collected by: Edyte Konan															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft)	TPH CRO/DO/DOO by 8015	OTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDGC TX	State	
9:40	10.19.23	S	1	PH03	1	0.5'						X		NM	CO UT AZ TX
Remarks															
10/20/2023															
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: <u>DM</u>															
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) <u>[Signature]</u>		Date <u>10/20/23</u>		Time <u>10:45</u>		Received by: (Signature) <u>Michelle Gonzales</u>		Date <u>10-20-23</u>		Time <u>1045</u>		Lab Use Only			
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date <u>10-20-23</u>		Time <u>1700</u>		Received by: (Signature) <u>Cathy Man</u>		Date <u>10-23-23</u>		Time <u>8:15</u>		Received on ice: <u>Y/N</u>			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												AVG Temp °C <u>4</u>			
Container Type: g - glass, p - poly/plastic, eg - 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: 10/23/2023 12:42:26PM

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:	10/23/23 08:15	Work Order ID:	E310203
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:13	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310206

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #009
Workorder: E310206
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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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	10/27/23 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 2'	E310206-01A	Soil	10/19/23	10/23/23	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	10/27/2023 10:20:28AM

PH03 2'
E310206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	33.7	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane	86.6 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043	
Chloride	236	20.0	1	10/24/23	10/24/23	



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	10/27/2023 10:20:28AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	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	10/27/2023 10:20:28AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	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	10/27/2023 10:20:28AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 10:20:28AM

Anions by EPA 300.0/9056A

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2

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	10/27/23 10:20

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- 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.



**envirotech**

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:53:29PM

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	Date Received:	10/23/23 08:15	Work Order ID:	E310206
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:17	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310205

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310205
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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	10/27/23 10:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 3'	E310205-01A	Soil	10/19/23	10/23/23	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	10/27/2023 10:17:33AM

PH03 3'

E310205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	25.2	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043	
Chloride	37.8	20.0	1	10/24/23	10/24/23	

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	10/27/2023 10:17:33AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	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	10/27/2023 10:17:33AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	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	10/27/2023 10:17:33AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 10:17:33AM

Anions by EPA 300.0/9056A

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 (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2

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	10/27/23 10:17

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- 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.





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Envirotech Analytical Laboratory

Printed: 10/23/2023 12:47:38PM

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:	10/23/23 08:15	Work Order ID:	E310205
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:16	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310215

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310215
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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.

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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	10/27/23 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 4'	E310215-01A	Soil	10/19/23	10/23/23	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	10/27/2023 2:11:18PM

PH03 4'
E310215-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343042	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/24/23	
Surrogate: n-Nonane	96.5 %	50-200		10/24/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	489	40.0	2	10/25/23	10/27/23	

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	10/27/2023 2:11:18PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	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	10/27/2023 2:11:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2)

Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2)

Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	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	10/27/2023 2:11:18PM

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 (2343042-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	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	10/27/2023 2:11:18PM

Anions by EPA 300.0/9056A

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 (2343072-BLK1)				Prepared: 10/25/23 Analyzed: 10/26/23					
Chloride	ND	20.0							
LCS (2343072-BS1)				Prepared: 10/25/23 Analyzed: 10/26/23					
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)				Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23			
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)				Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23			
Chloride	368	20.0	250	96.3	109	80-120	0.938	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	10/27/23 14:11

- 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

Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program							
Project: RDX 16 #009				Attention: Jim Raley				Lab WO# E310215				Job Number 01058-007				CWA SOWA							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				Analysis and Method				1D 2D 3D Standard 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@wpx.com																			
Email: Devon-team@etechnv.com				WO: 21191055																			
				Incident ID: nAPP2322658221, nAPP2317840368																			
Collected by: Edyte Konan																State							
																NM CO UT AZ TX							
																Remarks							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GR0/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 8010	Chloride 8000	SGDOC NM	GDGC TX										
10:10	10.19.23	S	1	PH03	1	4'						X											
<div>10/20/2023</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: GM																							
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>Michelle Gonzales</i>						Lab Use Only											
Date: 10/20/23						Date: 10-20-23						Time: 1045											
Relinquished by: (Signature) <i>Michelle Gonzales</i>						Received by: (Signature) <i>Carla M...</i>						Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N											
Date: 10-20-23						Date: 10-23-23						Time: 8:15											
Time: 1700												T1 T2 T3											
Relinquished by: (Signature)						Received by: (Signature)						AVG Temp °C 4											
Date						Date																	
Time																							
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: 10/23/2023 12:38:26PM

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:	10/23/23 08:15	Work Order ID:	E310215
Phone:	(539) 573-4018	Date Logged In:	10/23/23 12:36	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310204

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310204
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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
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Cell: 775-287-1762
whinchman@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	10/27/23 10:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 0.5'	E310204-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH04 4'	E310204-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 0.5'	E310204-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 4'	E310204-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 0.5'	E310204-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 4'	E310204-06A	Soil	10/19/23	10/23/23	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	10/27/2023 10:15:36AM

PH04 0.5'

E310204-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		108 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		108 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane		87.6 %	50-200	10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043	
Chloride	25200	1000	50	10/24/23	10/24/23	



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	10/27/2023 10:15:36AM

PH04 4'
E310204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane	87.3 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	1620	40.0	2	10/24/23	10/24/23	

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	10/27/2023 10:15:36AM

PH05 0.5'

E310204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane	86.9 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	17700	1000	50	10/24/23	10/24/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 10:15:36AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH05 4'
E310204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane		88.4 %	50-200	10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043	
Chloride	155	20.0	1	10/24/23	10/24/23	



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	10/27/2023 10:15:36AM

PH06 0.5'

E310204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	32.0	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		81.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	11600	400	20	10/24/23	10/24/23	



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	10/27/2023 10:15:36AM

PH06 4'

E310204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	98.9	20.0	1	10/24/23	10/24/23	



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	10/27/2023 10:15:36AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1)Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1)Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1)Source: E310202-02Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1)Source: E310202-02Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	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	10/27/2023 10:15:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	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	10/27/2023 10:15:36AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 10:15:36AM

Anions by EPA 300.0/9056A

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 (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2

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	10/27/23 10:15

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- 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 WOV				1D 2D 3D				CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				Job Number				Standard				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: jlm.raley@dmv.com															
Email: Devon-team@etechnv.com				WO: 21191055															
				Incident ID: nAPP2322658221, nAPP2317840368															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GPOC/POC by 8015	BTX by 8021	VOC by 8160	Metals 6010	Chloride 3000	BGDOC NM	TL CDOC	Remarks					
10:20	10.19.23	S	1	PH04	1	0.5'						X							
10:30	10.19.23	S	1	PH04	2	4'						X							
10:40	10.19.23	S	1	PH05	3	0.5'						X							
10:50	10.19.23	S	1	PH05	4	4'						X							
11:00	10.19.23	S	1	PH06	5	0.5'						X							
11:10	10.19.23	S	1	PH06	6	4'						X							
10/20/2023																			
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: <u>dm</u>																			
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.																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>[Signature]</u>		10/20/23		10:45		<u>Michelle Gonzales</u>		10-20-23		1045		Received on ice: <u>Y/N</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>Michelle Gonzales</u>		10-20-23		1700		<u>Carl M...</u>		10/23/23		8:15									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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: 10/23/2023 12:45:33PM

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:	10/23/23 08:15	Work Order ID:	E310204
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:14	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310208

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310208
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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: 10/27/23 14:07
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
PH07 0.5'	E310208-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH07 4'	E310208-02A	Soil	10/19/23	10/23/23	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	10/27/2023 2:07:32PM

PH07 0.5'

E310208-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane	88.2 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	55.4	20.0	1	10/25/23	10/26/23	



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	10/27/2023 2:07:32PM

PH07 4'
E310208-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		90.9 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	28.5	20.0	1	10/25/23	10/27/23	

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	10/27/2023 2:07:32PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	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	10/27/2023 2:07:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	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	10/27/2023 2:07:32PM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 2:07:32PM

Anions by EPA 300.0/9056A

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 (2343072-BLK1)				Prepared: 10/25/23 Analyzed: 10/26/23					
Chloride	ND	20.0							
LCS (2343072-BS1)				Prepared: 10/25/23 Analyzed: 10/26/23					
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)				Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23			
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)				Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23			
Chloride	368	20.0	250	96.3	109	80-120	0.938	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	10/27/23 14:07

- 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.





Envirotech Analytical Laboratory

Printed: 10/23/2023 1:00:26PM

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:	10/23/23 08:15	Work Order ID:	E310208
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:20	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310207

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310207
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, 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
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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	10/27/23 14:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH08 0.5'	E310207-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH08 1'	E310207-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 0.5'	E310207-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 1'	E310207-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 0.5'	E310207-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 1'	E310207-06A	Soil	10/19/23	10/23/23	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	10/27/2023 2:05:24PM

PH08 0.5'

E310207-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		87.9 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	259	20.0	1	10/25/23	10/26/23	



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	10/27/2023 2:05:24PM

PH08 1'
E310207-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		92.7 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	111	20.0	1	10/25/23	10/26/23	

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	10/27/2023 2:05:24PM

PH09 0.5'

E310207-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.4 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	159	20.0	1	10/25/23	10/26/23	



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	10/27/2023 2:05:24PM

PH09 1'
E310207-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		96.4 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	24.7	20.0	1	10/25/23	10/26/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 2:05:24PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH10 0.5'

E310207-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		91.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	157	20.0	1	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 2:05:24PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH10 1'

E310207-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	101 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	101 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane	86.3 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	25.2	20.0	1	10/25/23	10/26/23	



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	10/27/2023 2:05:24PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	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	10/27/2023 2:05:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	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	10/27/2023 2:05:24PM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	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	10/27/2023 2:05:24PM

Anions by EPA 300.0/9056A

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 (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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	10/27/23 14:05

- 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 W009				Attention: Jim Raley				Lab W08				1D 2D 3D Standard				CWA SDWA							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E310207 01058-0007				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												State							
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM CO UT AZ TX							
Email: Devon-team@etechnw.com				WO: 21191055																			
				Incident ID: nAPP2322658221, nAPP2317840368																			
Collected by: Edyte Konan																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GAO/DRO/ORG by 8015	BTEX by 8021	VOC by 8260	Metals 8010	Chloride 3000		MSDOC	NM	TX	DOC	Remarks						
11:40	10.19.23	S	1	PH08	1	0.5'							X										
11:50	10.19.23	S	1	PH08	2	1'							X										
12:00	10.19.23	S	1	PH09	3	0.5'							X										
12:10	10.19.23	S	1	PH09	4	1'							X										
12:20	10.19.23	S	1	PH10	5	0.5'							X										
12:30	10.19.23	S	1	PH10	6	1'							X										
10/20/2023																							
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) <u>[Signature]</u> Date <u>10/20/23</u> Time <u>10:45</u>																							
Relinquished by: (Signature) <u>Michelle Gonzales</u> Date <u>10-20-23</u> Time <u>1700</u>																							
Relinquished by: (Signature) _____ Date _____ Time _____																							
Received by: (Signature) <u>Michelle Gonzales</u> Date <u>10-20-23</u> Time <u>1045</u>																							
Received by: (Signature) <u>Carla Mon</u> Date <u>10-23-23</u> Time <u>8:15</u>																							
Received by: (Signature) _____ Date _____ Time _____																							
Lab Use Only Received on ice: <u>Y/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																							
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: 10/23/2023 12:58:03PM

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:	10/23/23 08:15	Work Order ID:	E310207
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:18	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 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.

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:58:03PM

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:	10/23/23 08:15	Work Order ID:	E310207
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:18	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

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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)

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8. If yes, was cooler received in good condition? Yes
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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
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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

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

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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



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311103

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/22/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #009
Workorder: E311103
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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

Raina Schwanz
Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 6'	E311103-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

PH01 6'

E311103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346097	
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346075	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	96.1 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	482	20.0	1	11/16/23	11/16/23	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2346097-BLK1) Prepared: 11/16/23 Analyzed: 11/17/23

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	7.80		8.00		97.6	70-130			

LCS (2346097-BS1) Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130			

Matrix Spike (2346097-MS1) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			

Matrix Spike Dup (2346097-MSD1) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	1.82	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	1.81	20	
Toluene	5.19	0.0250	5.00	ND	104	61-130	2.07	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	1.91	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.03	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	1.99	20	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346097-BLK1) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2346097-BS2) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

Matrix Spike (2346097-MS2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2346097-MSD2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	5.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

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 (2346075-BLK1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			

LCS (2346075-BS1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2346075-MS1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			

Matrix Spike Dup (2346075-MSD1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

- 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.



04108-0639

①

envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:32:52AM

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:	11/13/23 09:00	Work Order ID:	E311103
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:03	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311104

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #009
Workorder: E311104
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 6'	E311104-01A	Soil	11/18/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 11/22/2023 10:13:17AM
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH04 6'

E311104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2347012	
Benzene	ND	0.0250	1	11/20/23	11/20/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/20/23	
Toluene	ND	0.0250	1	11/20/23	11/20/23	
o-Xylene	ND	0.0250	1	11/20/23	11/20/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/20/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/20/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		11/20/23	11/20/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		11/20/23	11/20/23	
Surrogate: Toluene-d8	109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2347012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/20/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		11/20/23	11/20/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		11/20/23	11/20/23	
Surrogate: Toluene-d8	109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2347018	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/23	11/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/23	11/20/23	
Surrogate: n-Nonane	153 %	50-200		11/20/23	11/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2347005	
Chloride	299	20.0	1	11/20/23	11/20/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347012-BLK1) Prepared: 11/20/23 Analyzed: 11/20/23

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: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

LCS (2347012-BS1) Prepared: 11/20/23 Analyzed: 11/20/23

Benzene	2.65	0.0250	2.50		106	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2347012-MS1) Source: E311148-01 Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135			
Toluene	2.74	0.0250	2.50	ND	109	48-130			
o-Xylene	2.57	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.16	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike Dup (2347012-MSD1) Source: E311148-01 Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	2.56	0.0250	2.50	ND	102	48-131	3.83	23	
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	2.58	27	
Toluene	2.68	0.0250	2.50	ND	107	48-130	2.05	24	
o-Xylene	2.51	0.0250	2.50	ND	100	43-135	2.48	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	2.08	27	
Total Xylenes	7.57	0.0250	7.50	ND	101	43-135	2.22	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347012-BLK1)

Prepared: 11/20/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

LCS (2347012-BS2)

Prepared: 11/20/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike (2347012-MS2)

Source: E311148-01 Prepared: 11/20/23 Analyzed: 11/21/23

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

Matrix Spike Dup (2347012-MSD2)

Source: E311148-01 Prepared: 11/20/23 Analyzed: 11/21/23

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	0.678	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2347018-BLK1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.9		50.0		114	50-200			

LCS (2347018-BS1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

Matrix Spike (2347018-MS1)					Source: E311152-22		Prepared: 11/20/23 Analyzed: 11/20/23		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike Dup (2347018-MSD1)					Source: E311152-22		Prepared: 11/20/23 Analyzed: 11/20/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	1.09	20	
Surrogate: n-Nonane	57.1		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347005-BLK1)				Prepared: 11/20/23 Analyzed: 11/20/23					
Chloride	ND	20.0							
LCS (2347005-BS1)				Prepared: 11/20/23 Analyzed: 11/20/23					
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2347005-MS1)				Source: E311137-02		Prepared: 11/20/23 Analyzed: 11/20/23			
Chloride	9930	400	250	10200	NR	80-120			M4
Matrix Spike Dup (2347005-MSD1)				Source: E311137-02		Prepared: 11/20/23 Analyzed: 11/20/23			
Chloride	10000	400	250	10200	NR	80-120	0.769	20	M4

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:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

- M4Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite
- DNRDid 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.

envirotech

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Envirotech Analytical Laboratory

Printed: 11/13/2023 1:49:00PM

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:	11/13/23 09:00	Work Order ID:	E311104
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:46	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/20/23 17:00 (5 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? No

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: E311105

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311105
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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.

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

Respectfully,

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05 6'	E311105-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 04108-0639 Project Manager: Gilbert Moreno	Reported: 11/17/2023 2:26:58PM
--------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------

PH05 6'

E311105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	110 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	232	200	10	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

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 (2346076-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2346076-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

- 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.





Envirotech Analytical Laboratory

Printed: 11/15/2023 11:44:54AM

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:	11/13/23 09:00	Work Order ID:	E311105
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:50	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311106

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311106
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 6'	E311106-01A	Solid	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

PH06 6'

E311106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	110 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	222	200	10	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

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 (2346076-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2346076-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

- 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.



Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT			EPA Program					
Project: RDX 16 #009				Attention: Jim Raley		Lab WDN		Job Number		1D	2D	3D	Standard	CWA	SOWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E311106		04018-0089					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		Depth (ft.)	TPH GRD/TORO/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 8010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21191055														
Incident ID: nAPP2322658221, nAPP2317840368																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks												
10:30	11.09.23	S	1	PH06	1													
11/10/2023																		
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) <u>[Signature]</u> Date <u>11/10/2023</u> Time <u></u> Received by: (Signature) <u>[Signature]</u> Date <u>11/13/23</u> Time <u>9:00</u>																		
Relinquished by: (Signature) <u></u> Date <u></u> Time <u></u> Received by: (Signature) <u></u> Date <u></u> Time <u></u>																		
Relinquished by: (Signature) <u></u> Date <u></u> Time <u></u> Received by: (Signature) <u></u> Date <u></u> Time <u></u>																		
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: 11/15/2023 11:34:29AM

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:	11/13/23 09:00	Work Order ID:	E311106
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:53	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311107

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/23

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: 11/20/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311107
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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

Raina Schwanz
Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 6'	E311107-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 04018-0639 Project Manager: Gilbert Moreno	Reported: 11/20/2023 3:59:43PM
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PH07 6'

E311107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346075	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	92.5 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	31.9	20.0	1	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

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 (2346075-BLK1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			

LCS (2346075-BS1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2346075-MS1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			

Matrix Spike Dup (2346075-MSD1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

- 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.



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Envirotech Analytical Laboratory

Printed: 11/15/2023 11:35:27AM

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:	11/13/23 09:00	Work Order ID:	E311107
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:57	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311108

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311108
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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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	11/22/23 10:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH11 0.5'	E311108-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 4'	E311108-02A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 6'	E311108-03A	Soil	11/09/23	11/13/23	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	11/22/2023 10:50:27AM

PH11 0.5'

E311108-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2346080	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	89.2 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	104	20.0	1	11/16/23	11/16/23	

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	11/22/2023 10:50:27AM

PH11 4'

E311108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
<i>Surrogate: n-Nonane</i>						
	92.5 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	ND	200	10	11/16/23	11/16/23	



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	11/22/2023 10:50:27AM

PH11 6'

E311108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2346080	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	83.3 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	ND	200	10	11/16/23	11/16/23	



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	11/22/2023 10:50:27AM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2346023-BLK1)Prepared: 11/14/23 Analyzed: 11/16/23

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	7.78		8.00		97.3	70-130			

LCS (2346023-BS1)Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2346023-MS1)Source: E311089-03Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2346023-MSD1)Source: E311089-03Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	3.04	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	2.96	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	3.37	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	3.06	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	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	11/22/2023 10:50:27AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2346023-BS2) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2346023-MS2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2346023-MSD2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	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	11/22/2023 10:50:27AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2346080-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	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	11/22/2023 10:50:27AM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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	11/22/23 10:50

- 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					BHI To		Lab Use Only				TAT				EPA Program							
Project: RDX 16 #009					Attention: Jim Raley		Lab WOH		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno					Address 5315 Buena Vista Dr.		E311108		04018-008					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												State					
Phone: 832-541-7719					Email: jim.raley@dvn.com												NM		CO	UT	AZ	TX
Email: Devon.team@etechnv.com					WO: 21191055																	
Incident ID: nAPP2322658221, nAPP2317840368																						
Collected by: Edyte Konan																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GR/DRO/DRO by BOLS	BTEX by BOLS	VOCS by BOLS	Metals by BOLS	Chloride by BOLS	BDOC NM	XA DODS	Remarks								
10:50	11/09/23	S	1	PH11	1	0.5'						X										
11:00	11/09/23	S	1	PH11	2	4'						X										
11:10	11/09/23	S	1	PH11	3	6'						X										
11/10/2023																						
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.										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.												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on Ice: <u>Y/N</u>														
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 <u>4</u>														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, eg - 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: 11/15/2023 11:35:55AM

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:	11/13/23 09:00	Work Order ID:	E311108
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:00	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311109

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311109
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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
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Field Offices:

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Laboratory Technical Representative
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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	11/22/23 10:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 0.5'	E311109-01A	Soil	11/09/23	11/13/23	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	11/22/2023 10:53:54AM

PH12 0.5'

E311109-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346079	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	111 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	14400	400	20	11/16/23	11/16/23	

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	11/22/2023 10:53:54AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	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	11/22/2023 10:53:54AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	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	11/22/2023 10:53:54AM

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 (2346079-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2346079-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132			
Surrogate: n-Nonane	59.0		50.0		118	50-200			

Matrix Spike (2346079-MS1)					Source: E311128-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	59.9		50.0		120	50-200			

Matrix Spike Dup (2346079-MSD1)					Source: E311128-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	38-132	2.50	20	
Surrogate: n-Nonane	56.8		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	11/22/2023 10:53:54AM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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	11/22/23 10:53

- 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.





Envirotech Analytical Laboratory

Printed: 11/15/2023 11:36:42AM

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:	11/13/23 09:00	Work Order ID:	E311109
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:05	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311110

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311110
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 4'	E311110-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

PH12 4'

E311110-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2346080	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	85.1 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	14700	400	20	11/16/23	11/17/23	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1)Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)Source: E311088-02Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)Source: E311088-02Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2346080-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

- 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.



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Envirotech Analytical Laboratory

Printed: 11/15/2023 11:37:05AM

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:	11/13/23 09:00	Work Order ID:	E311110
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:07	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311111

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311111
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, 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:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 6'	E311111-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #009 Project Number: 04018-0639 Project Manager: Gilbert Moreno	Reported: 11/17/2023 3:00:38PM
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PH12 6'

E311111-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2346080	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		93.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346090	
Chloride	960	200	10	11/16/23	11/17/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2346080-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

- 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.



Chain of Custody

⑤

envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:38:00AM

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:	11/13/23 09:00	Work Order ID:	E311111
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:10	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E311101

Job Number: 01058-0007

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/23

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: 11/20/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E311101
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH13 0.5'	E311101-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH13 1'	E311101-02A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 0.5'	E311101-03A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 1'	E311101-04A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

PH13 0.5'

E311101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	105 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346094	
Chloride	94.7	20.0	1	11/16/23	11/18/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 11/20/2023 1:43:42PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH13 1'

E311101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	102 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346094	
Chloride	ND	200	10	11/16/23	11/18/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 11/20/2023 1:43:42PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH14 0.5'

E311101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	104 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346094	
Chloride	107	20.0	1	11/16/23	11/18/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 11/20/2023 1:43:42PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH14 1'

E311101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346094	
Chloride	ND	200	10	11/16/23	11/18/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

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	7.78		8.00		97.3	70-130			

LCS (2346023-BS1) Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2346023-MS1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2346023-MSD1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	3.04	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	2.96	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	3.37	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	3.06	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2346023-BS2) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2346023-MS2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2346023-MSD2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

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 (2346076-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2346076-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2346094-BLK1)					Prepared: 11/16/23 Analyzed: 11/18/23				
Chloride	ND	20.0							
LCS (2346094-BS1)					Prepared: 11/16/23 Analyzed: 11/18/23				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2346094-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/18/23		
Chloride	359	20.0	250	107	101	80-120			
Matrix Spike Dup (2346094-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/18/23		
Chloride	349	20.0	250	107	96.9	80-120	2.99	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 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

- 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 1 of 1

04108-0689

Client: WPX Energy Permian, LLC. Project: RDX 16 #009 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechnv.com				Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dmv.com WO: 21191055 Incident ID: nAPP23226582271, nAPP2317840368		Lab Use Only Lab WO# E.311101 Job Number 0458-0007		TAT 1D 2D 3D Standard 5 day TAT		EPA Program CWA SDWA RCRA									
								Analysis and Method		State NM CO UT AZ TX									
				Collected by: Edyte Konan		Depth (ft) TPH GRO/DRO/DIO/DIO BTX by 8021 VOC by 204 M4001 6010 Chloride 3000		NM COOC NM TX COOC		Remarks									
				Time Sampled Date Sampled Matrix No. of Containers Sample ID Lab Number		Depth (ft) TPH GRO/DRO/DIO/DIO BTX by 8021 VOC by 204 M4001 6010 Chloride 3000		NM COOC NM TX COOC		Remarks									
11:50	11.09.23	S	1	PH13	1	0.5'													
12:00	11.09.23	S	1	PH13	2	1'													
12:10	11.09.23	S	1	PH14	3	0.5'													
12:20	11.09.23	S	1	PH14	4	1'													
11/10/2023																			
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.										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) <i>[Signature]</i> Date: 11/10/2023 Time:										Received by: (Signature) <i>[Signature]</i> Date: 11/13/23 Time: 9:00									
Relinquished by: (Signature) Date: Time:										Received by: (Signature) Date: Time:									
Relinquished by: (Signature) Date: Time:										Received by: (Signature) Date: Time:									
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: 11/15/2023 11:31:59AM

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:	11/13/23 09:00	Work Order ID:	E311101
Phone:	(539) 573-4018	Date Logged In:	11/13/23 12:40	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 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.

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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 296739

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296739
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan 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	06/26/2023
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: Human Error Tank (Any) Crude Oil Released: 50 BBL Recovered: 40 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 522 BBL Recovered: 480 BBL Lost: 42 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 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296739
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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.	

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: 12/20/2023
----------------------------------------------------	----------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296739
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Site Characterization	
<i>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.</i>	
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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	25200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	25500
GRO+DRO (EPA SW-846 Method 8015M)	18300
BTEX (EPA SW-846 Method 8021B or 8260B)	3.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	12/01/2024
On what date will (or did) the final sampling or liner inspection occur	11/09/2023
On what date will (or was) the remediation complete(d)	11/09/2023
What is the estimated surface area (in square feet) that will be reclaimed	1838
What is the estimated volume (in cubic yards) that will be reclaimed	272
What is the estimated surface area (in square feet) that will be remediated	11214
What is the estimated volume (in cubic yards) that will be remediated	365
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	296739
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site 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
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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: 12/20/2023
----------------------------------------------------	---------------------------------------------------------------------------------------------

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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QUESTIONS, Page 5
Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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Oil Conservation Division

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Santa Fe, NM 87505

QUESTIONS, Page 6

Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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Energy, Minerals and Natural Resources

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Santa Fe, NM 87505

CONDITIONS

Action 296739

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance request to collect confirmation sidewall and floor samples no more than 400 square feet is approved. Submit deferral request or remediation closure report to the OCD by 6/4/2024	3/7/2024

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QUESTIONS

Action 371023

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 371023
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Deferral Request 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	06/26/2023
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: Human Error Tank (Any) Crude Oil Released: 50 BBL Recovered: 40 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 522 BBL Recovered: 480 BBL Lost: 42 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 371023

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	371023
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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.	

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: 08/06/2024
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QUESTIONS, Page 3

Action 371023

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	371023
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	25200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	43100
GRO+DRO	(EPA SW-846 Method 8015M)	27900
BTEX	(EPA SW-846 Method 8021B or 8260B)	3.5
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	04/02/2024
On what date will (or did) the final sampling or liner inspection occur	07/02/2024
On what date will (or was) the remediation complete(d)	07/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	2082
What is the estimated volume (in cubic yards) that will be reclaimed	315
What is the estimated surface area (in square feet) that will be remediated	12800
What is the estimated volume (in cubic yards) that will be remediated	740

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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QUESTIONS, Page 4

Action 371023

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	371023
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site 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
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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@dvni.com Date: 08/06/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 371023

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	371023
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferred soil lies directly below and adjacent to active storage tanks, surface utilities, and subsurface utilities. Removal of said soil would de-stabilize equipment and endanger personnel onsite.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	6123
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1300
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-39752 RDX 16 #009
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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@dvni.com Date: 08/06/2024

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QUESTIONS, Page 6

Action 371023

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	371023
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	359042
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	5062

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	No

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CONDITIONS

Action 371023

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 371023
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of FS18 through FS29 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	8/8/2024