



CLOSURE REQUEST REPORT

RDX Federal 21 #021

Eddy County, New Mexico

Incident Number nAPP2400432622

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 Closure Request Report (CRR) detailing corrective actions and subsequent soil sampling activities associated with an inadvertent release of produced water at the RDX Federal 21 #021 (Site). Based on the laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA).

SITE LOCATION AND BACKGROUND

The Site is located in Unit E, Section 21, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.030720°, -103.891716°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1 in Appendix A**).

On December 28, 2023, an underground flowline developed a leak, causing the release of approximately 5 barrels (bbls) of produced water onto the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 4, 2024, and was subsequently assigned Incident Number nAPP2400432622.

On January 4, 2024, Etech conducted initial site assessment activities which included mapping the observed release footprint, hereafter referred to as the Area of Concern (AOC), which is shown in **Figure 2 in Appendix A**.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring (MW-1) that was drilled by Talon LPE for WPX on December 8, 2020, located approximately 0.49 miles northwest of the Site on the RDX 17 #3 well pad. Using a truck mounted drill rig equipped with air rotary, the soil boring was advanced to a total depth of 107 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 referenced soil boring record is provided in **Appendix B**. All soil boring locations and regional groundwater well locations used to determine depth to groundwater are shown in **Figure 1A in Appendix A**.



All other receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

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

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [*]
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

During January 15 through January 19, 2024, Etech conducted delineation activities to assess the presence and/or absence of impacts associated with the AOC. Fourteen delineation boreholes (BH01 through BH14) were advanced via hand auger within and around the AOC. Delineation activities were directed 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 soil samples were collected from each delineation soil sampling location, representing the highest observed field screening and greatest depth. Field screening results and observations for delineation soil samples were recorded on soil sampling logs, which are included as **Appendix C**. The locations of the delineation soil samples are displayed in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Appendix D**.

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

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated BTEX and TPH concentrations were below the Site Closure Criteria for all delineation soil samples. However, TPH-GRO + TPH-DRO exceedances were detected at delineation soil sampling locations BH05 and BH14, which are characterized by concentrations ranging from 1,130 mg/kg to 1,290 mg/kg.

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



EXCAVATION SOIL SAMPLING ACTIVITIES

During March 19 through March 20, 2023, Etech oversaw excavation activities via mechanical equipment to address impacts identified by delineation soil sample laboratory analytical results and visual observation. Excavation soil samples were field screened for VOCs and chloride as previously described.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples (FS01 through FS12, and SW01 through SW04) at a frequency no greater than 200 square feet from the floor and sidewalls of the excavation. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. Excavation confirmation soil samples were handled and analyzed as previously described. The locations of the excavation confirmation soil samples are shown in **Figure 3** in **Appendix A**.

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

EXCAVATION LABORATORY ANALYTICAL RESULTS

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

CLOSURE REQUEST

Based on laboratory analytical results, impacts associated with the AOC have been delineated and excavated in accordance with Site Closure Criteria and removed from the Site. Due to the active status of the well pad where the inadvertent release occurred, the top 4 feet of the AOC is not ready to undergo complete reclamation in which the primary purpose is to reestablish vegetation. Since depth to groundwater at the Site is estimated to be greater than 100 feet bgs and there are no sensitive receptors within the established buffers in NMAC 19.15.29.12, WPX believes residual chloride concentrations within the AOC exceeding the reclamation standard but below the Site Closure Criteria meets the requirements set forth in NMAC 19.15.29.13 regulations and is equally protective of human health, the environment, and groundwater.

WPX will reassess the Site during plugging and abandonment activities and address those soil concentrations above the reclamation requirements of 600 mg/kg chloride and 100 mg/kg TPH associated with the inadvertent release (**Figure 4** in **Appendix A**). The final remediation will be confirmed via excavation confirmation sampling and is subject to change. As such, NFA appears warranted at this time and the CRR associated with Incident Number nAPP2400432622 should be respectfully considered for Closure by the NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Gilbert Moreno at (832) 541-7719 or gilbert@etechenv.com. Documentation of correspondence and notifications regarding Incident Number nAPP2400432622 is presented as **Attachment G**.



Sincerely,

Etech Environmental and Safety Solutions, Inc.

A handwritten signature in black ink, appearing to read "Gilbert Moreno".

Gilbert Moreno
Project Geologist

A handwritten signature in black ink, appearing to read "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Managing Geologist

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

Appendices:

- Appendix A:** Figure 1: Site Map
Figure 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: Excavation Soil Sample Locations
Figure 4: Future Restoration Areas
- Appendix B:** Referenced Well Records
- Appendix C:** Soil Sampling Logs
- Appendix D:** Photographic Log
- Appendix E:** Tables
- Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G:** Correspondence & Notifications

APPENDIX A

Figures

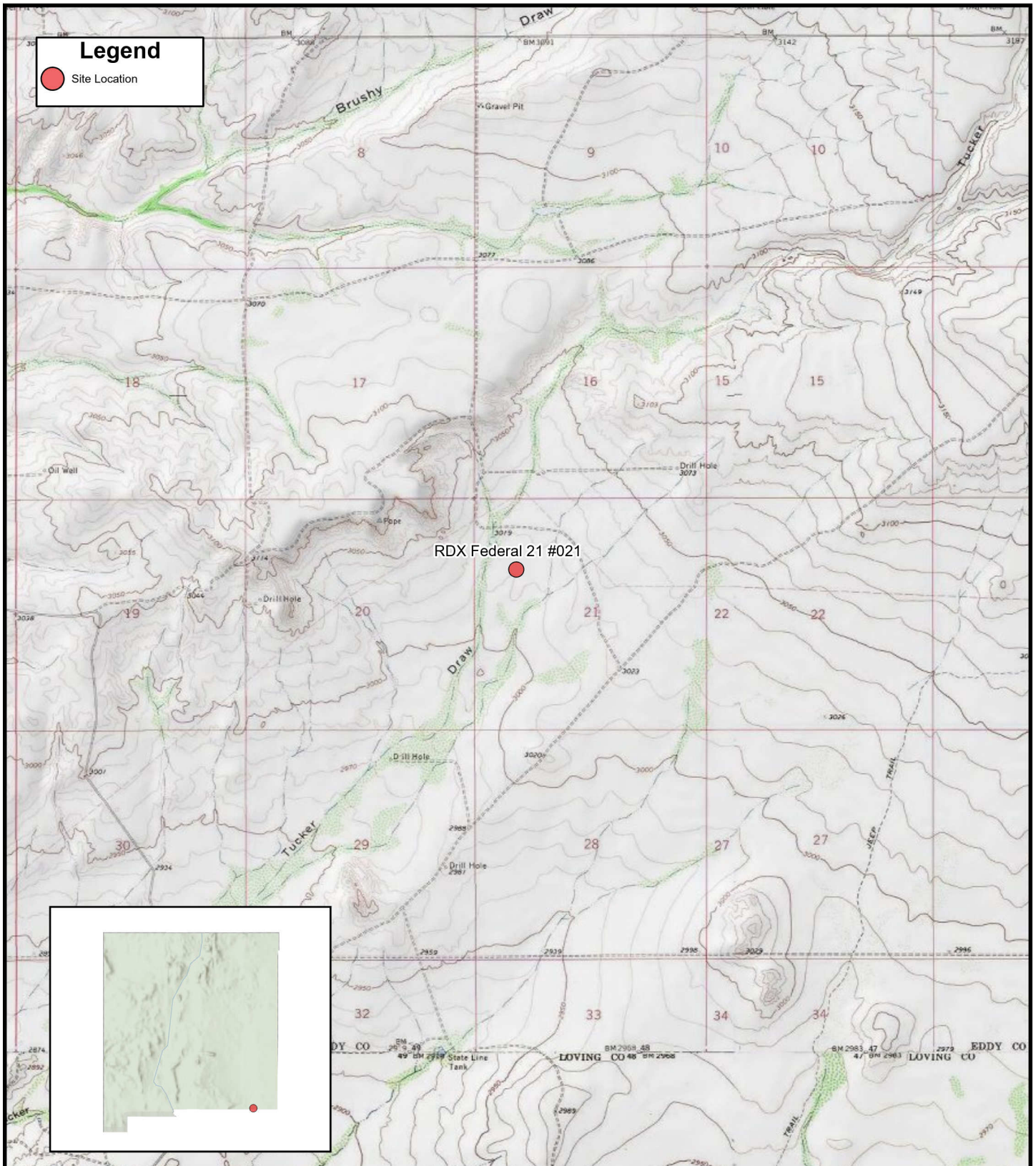


FIGURE 1

Site Location Map

WPX ENERGY PERMIAN, LLC
RDX Federal 21 #021
Unit E Sec 21 T26S R30E
Eddy County, New Mexico

eTECH



0 2,000 4,000 Feet

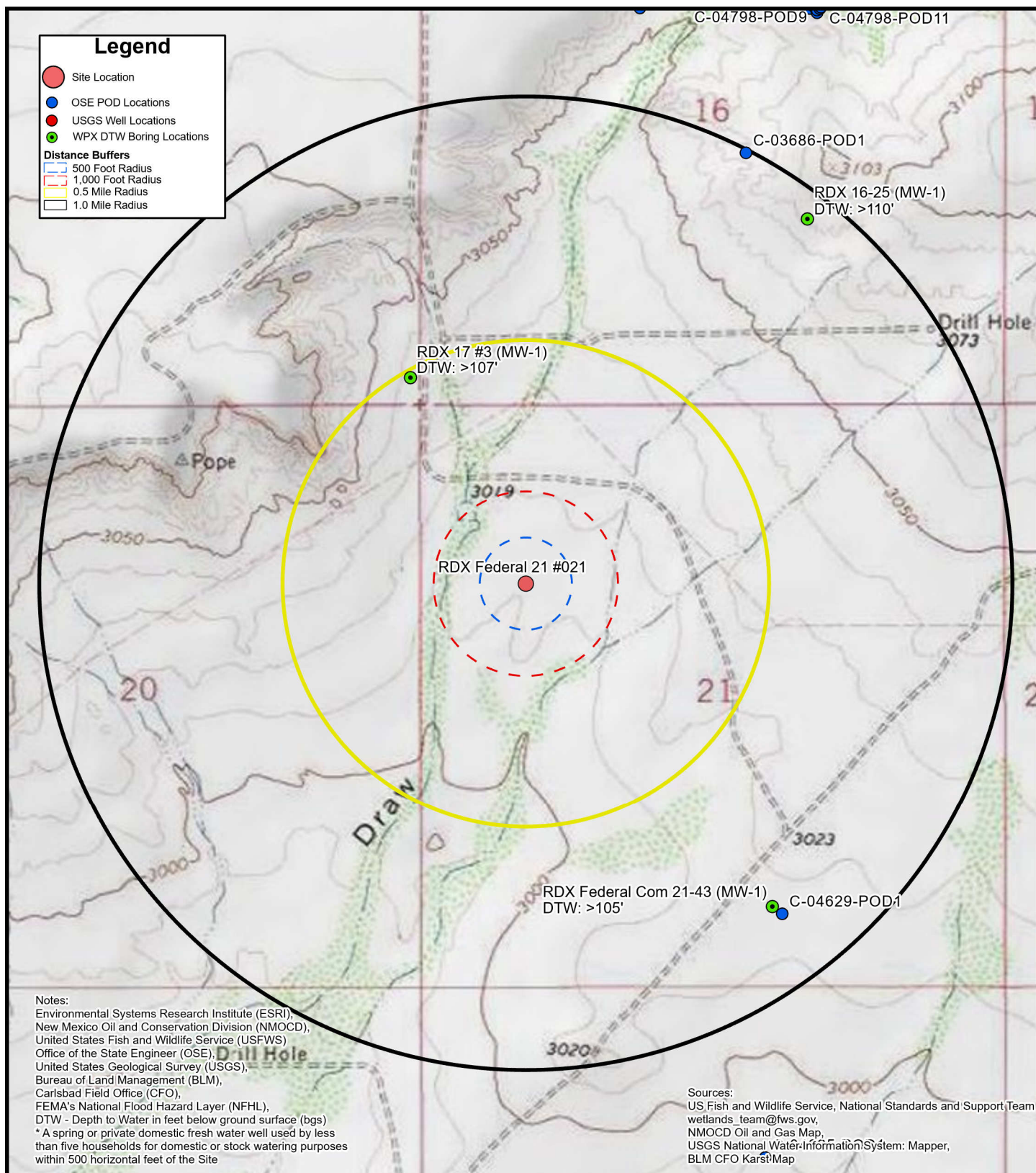
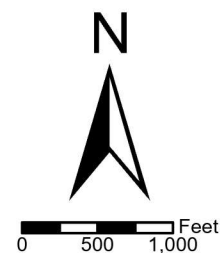


FIGURE 1A
**Site Characterization Map
 Ground Water**

WPX ENERGY PERMIAN, LLC
 RDx Federal 21 #021
 Unit E Sec 21 T26S R30E
 Eddy County, New Mexico



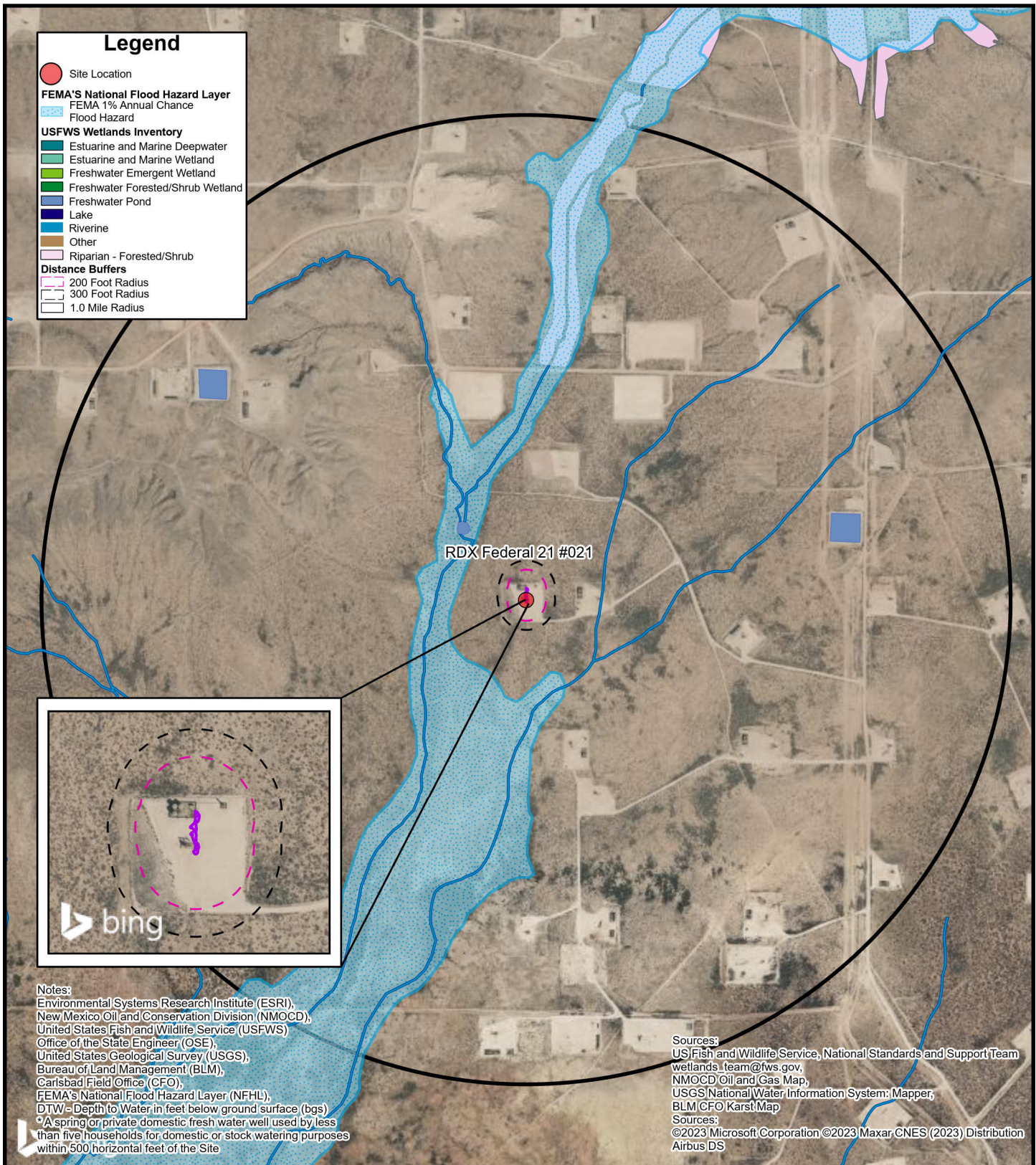
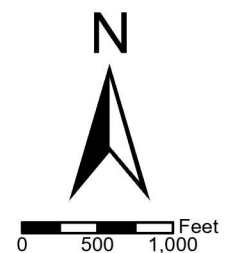
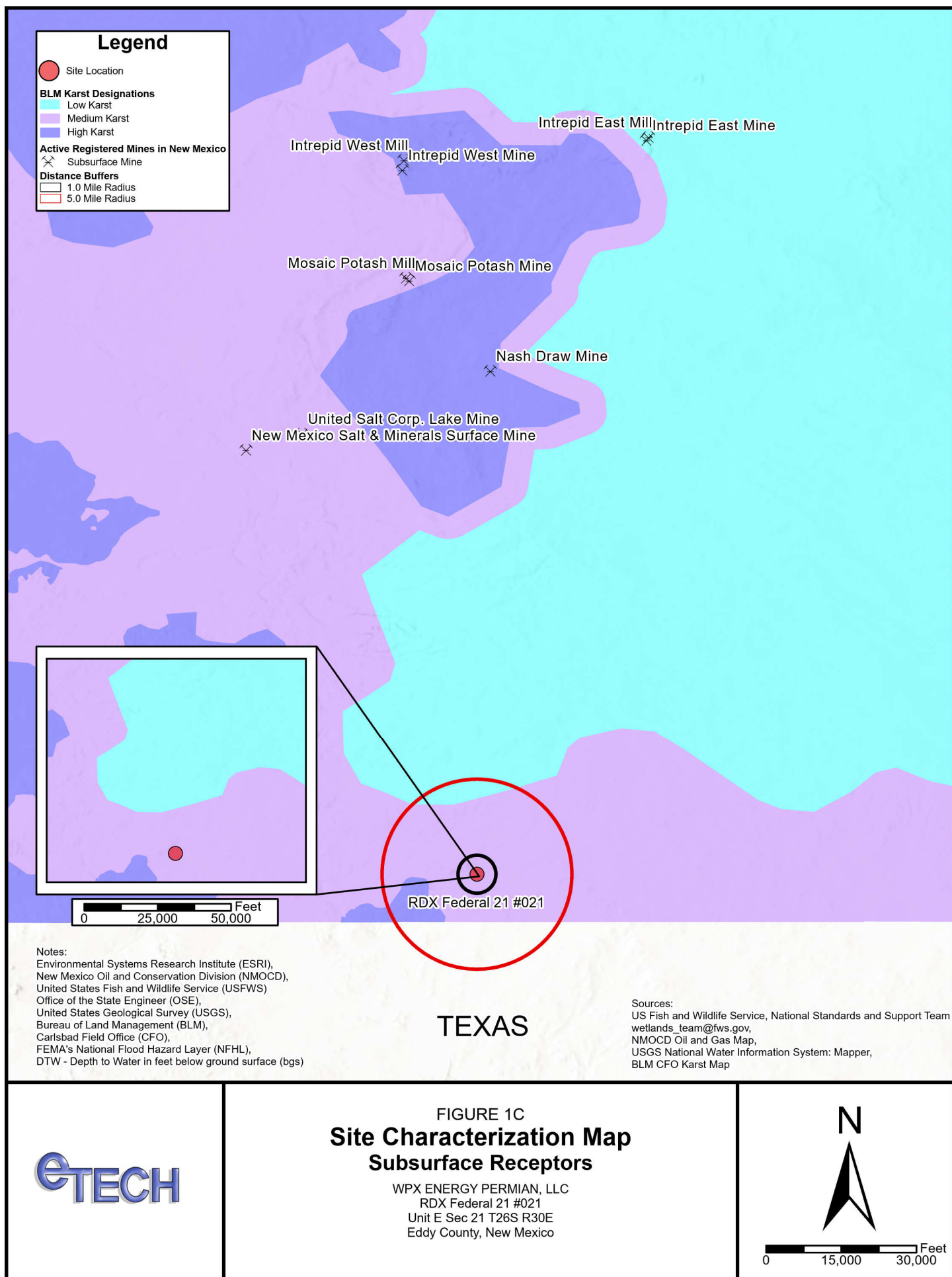


FIGURE 1B
**Site Characterization Map
 Surficial Receptors**

WPX ENERGY PERMIAN, LLC
 RDX Federal 21 #021
 Unit E Sec 21 T26S R30E
 Eddy County, New Mexico





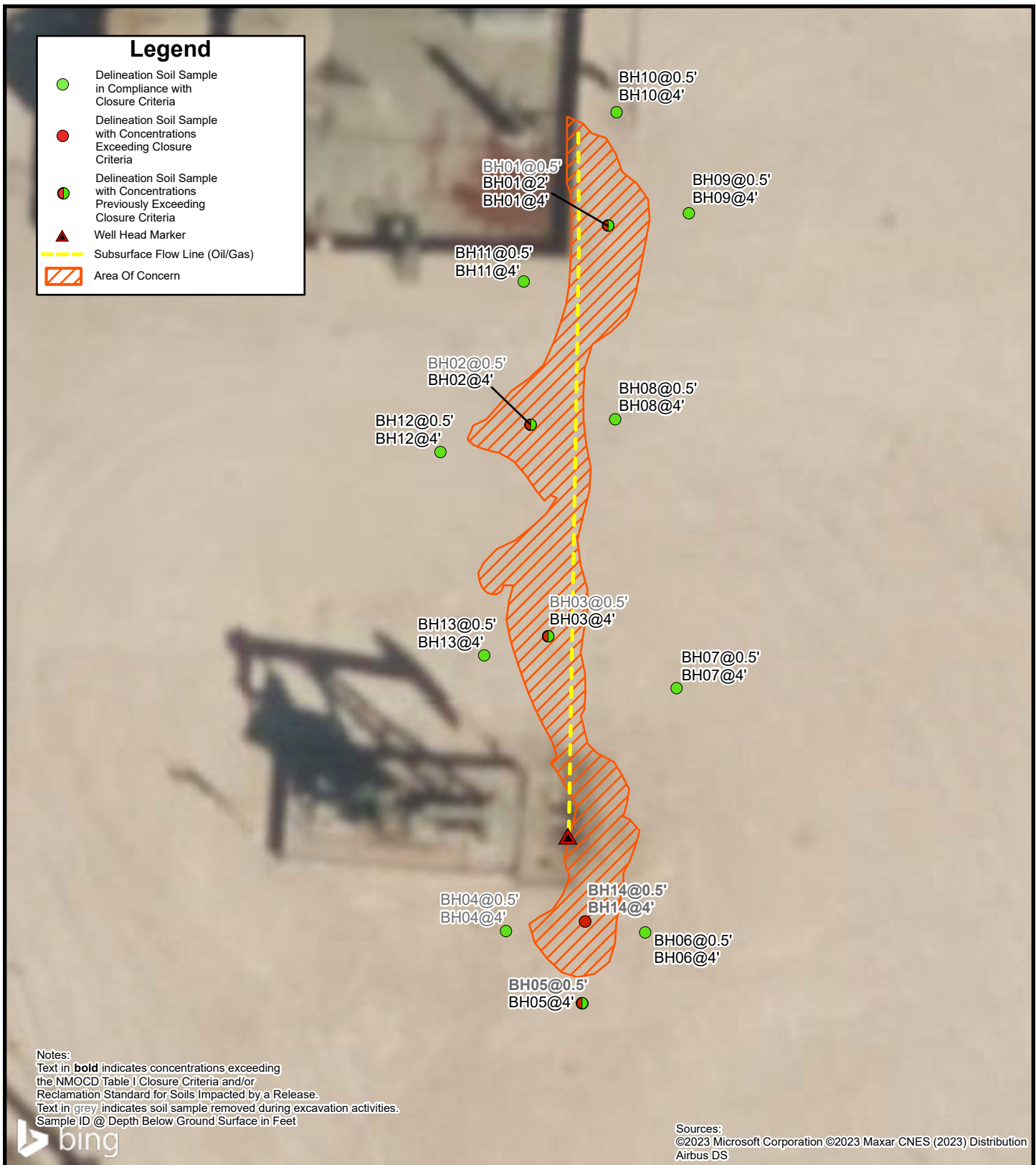
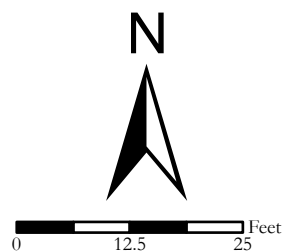


FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
 RDX Federal 21 #021
 Unit E Sec 21 T26S R30E
 Eddy County, New Mexico



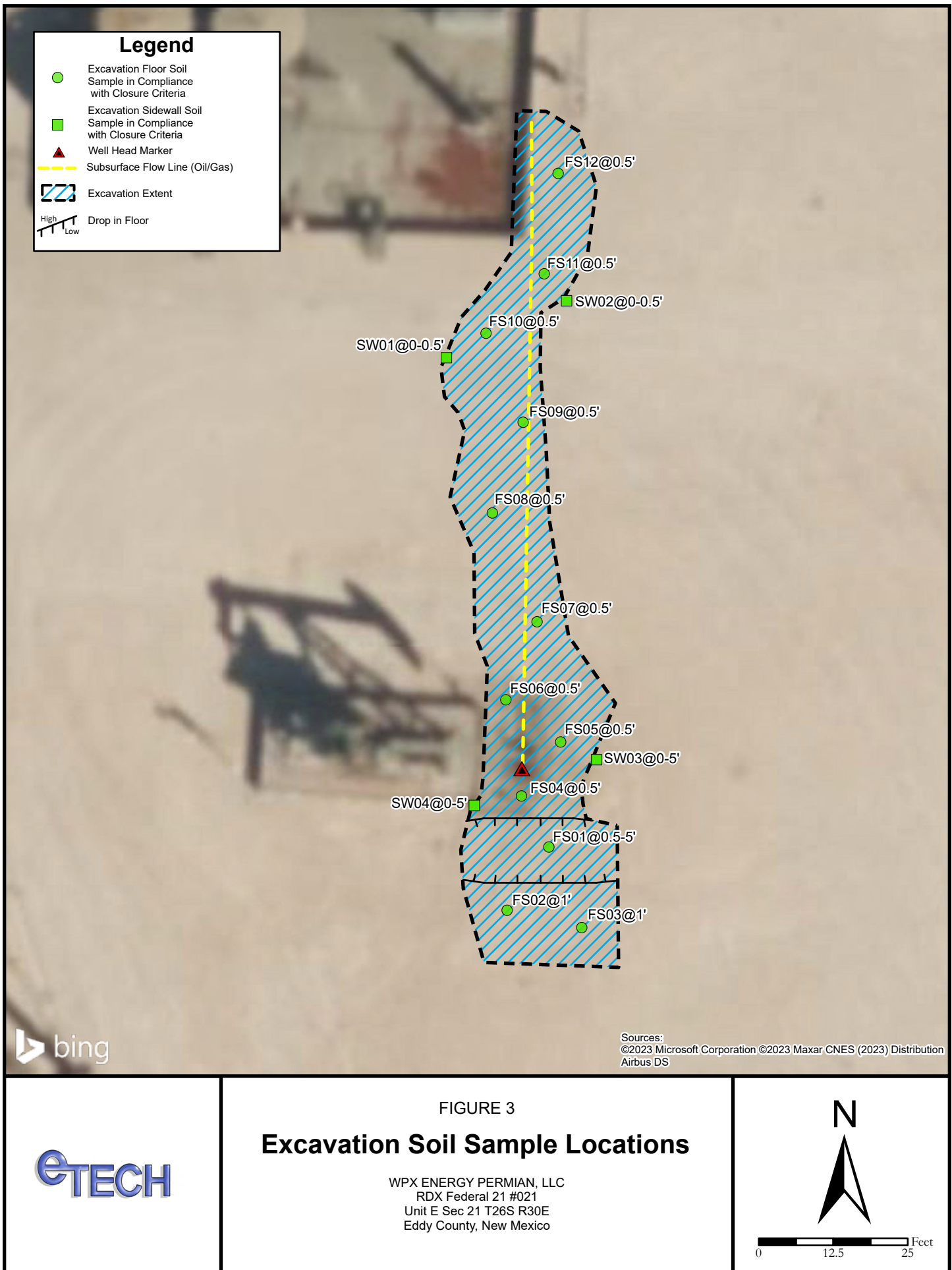
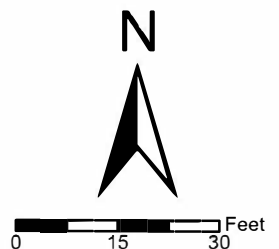




FIGURE 4


Future Restoration Areas

WPX ENERGY PERMIAN, LLC
RDX Federal 21 #021
Unit E Sec 21 T26S R30E
Eddy County, New Mexico



APPENDIX B

Referenced Well Records

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: RDX 17 #3			
							Date: 12/8/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.036765		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-102 feet bgs			Boring Total Depth (ft. BGS): 107			Longitude: -103.895993			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 102-107 ft		Well Total Depth (ft. BGS): 107			Depth to Water (ft. BTOC): > 107		DTW Date: 12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand				
5													
10													
15													
20													
25	NM	L	D	N	N	NM	SP	NS	Same as above with slight increase in coarse sand and gravel				
30													
35													
40													
45													
45	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand with very slight silt				
50													
55													
60													
65													
65	NM	M	SL M	N	N	NM	SM	NS	Pale red orange clayey silty fine sand with minor coarse sand and gravel				
70													
75													
80													
85													
90	NM	L	SL M	N	N	NM	SP	NS	Pale orange poorly sorted fine sand - TD 107' BGS				
95													
100													
105													
105													

APPENDIX C

Soil Sampling Logs



Sample Name: BH01

Date: 01/15/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	<128	6.1	No	BH01	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	14,780	0.5	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	252	0	No	BH01	2	2		
						3		
Dry	356	0	No	BH01	4	4		

Total Depth



Sample Name: BH02

Date: 01/15/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	BH02	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	1,292	0.3	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	900	0.9	No		2	2		
						3		
Dry	1,292	0.2	No	BH02	4	4		

Total Depth



Sample Name: BH03

Date: 01/15/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	9,212	0.2	No	BH03	0.5			
Dry	1,816	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	1,696	0	No		2	2		
						3		
Dry	1,696	0	No	BH03	4	4		

Total Depth



Sample Name: BH04

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0	No	BH04	0.5			
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH04	4	4		

Total Depth



Sample Name: BH05

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0	No	BH05	0.5			
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH05	4	4		

Total Depth



Sample Name: BH06

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0.3	No	BH06	0.5			
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	140	0	No		2	2		
						3		
Dry	<128	0	No	BH06	4	4		

Total Depth



Sample Name: BH07

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	340	0	No	BH07	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	264	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	300	0.1	No		2	2		
						3		
Dry	228	0	No	BH07	4	4		

Total Depth



Sample Name: BH08

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0	No	BH08	0.5			
Dry	<128	0.3	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH08	4	4		

Total Depth



Sample Name: BH09

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0	No	BH09	0.5			
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH09	4	4		

Total Depth



Sample Name: BH10

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	<128	0	No	BH10	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH10	4	4		

Total Depth



Sample Name: BH11

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	340	0	No	BH11	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	228	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH11	4	4		

Total Depth



Sample Name: BH12

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	376	0.2	No	BH12	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	340	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	160	0	No		2	2		
						3		
Dry	192	0	No	BH12	4	4		

Total Depth



Sample Name: BH13

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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	376	0	No	BH13	0.5	0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	340	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	264	0	No		2	2		
						3		
Dry	264	0	No	BH13	4	4		

Total Depth



Sample Name: BH14

Date: 01/19/2024

Site Name: RDX Federal 21 #021

Incident Number: nAPP2400432622

Job Number: 19578

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.030720°, -103.891716°

Hole Diameter: 4 inches

Total Depth: 4 feet

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
						0	CCHE	(0-1') Poorly/well compacted pad surface CALICHE cap.
Dry	<128	0.4	No	BH14	0.5			
Dry	<128	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor
Dry	<128	0	No		2	2		
						3		
Dry	<128	0	No	BH14	4	4		

Total Depth

APPENDIX D

Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX Federal 21 #021

Incident Number nAPP2400432622

Date & Time: Thu, Jan 04, 2024 at 13:58:41 MST
 Position: +032.030451° / -103.891691° (±11.6ft)
 Altitude: 3026ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 021° N21E 0320mits True (±11.6ft)
 Elevation Angle: -07.0°
 Horizon Angle: +01.8°
 Zoom: 0.5X
 RDX 21-21

**Photograph 1****Date: 01/04/2024**

Description: Northeastern view of AOC.

Date & Time: Thu, Jan 04, 2024 at 14:00:35 MST
 Position: +032.031042° / -103.891691° (±11.6ft)
 Altitude: 3006ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 186° S04W 380mits True (±11.6ft)
 Elevation Angle: -21.0°
 Horizon Angle: +01.8°
 Zoom: 0.5X
 RDX 21-21

**Photograph 2****Date: 01/04/2024**

Description: Southwestern view of AOC.

Position: +032.030976° / -103.891722° (±15.1ft)
 Altitude: 3017ft (±15.1ft)
 Datum: WGS-84
 Azimuth/Bearing: 155° S25E 275mits True (±15.1ft)
 Elevation Angle: -21.4°
 Horizon Angle: +01.4°
 Zoom: 0.5X
 RDX 21-21

**Photograph 3****Date: 01/15/2024**

Description: Southeastern view during delineation activities.

Position: +032.030940° / -103.891658° (±12.2ft)
 Altitude: 3018ft (±12.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 243° S63W 430mits True (±12.2ft)
 Elevation Angle: -22.4°
 Horizon Angle: +02.2°
 Zoom: 0.5X
 RDX 21-21

**Photograph 4****Date: 01/19/2024**

Description: Southwestern view during delineation activities.

**PHOTOGRAPHIC LOG**

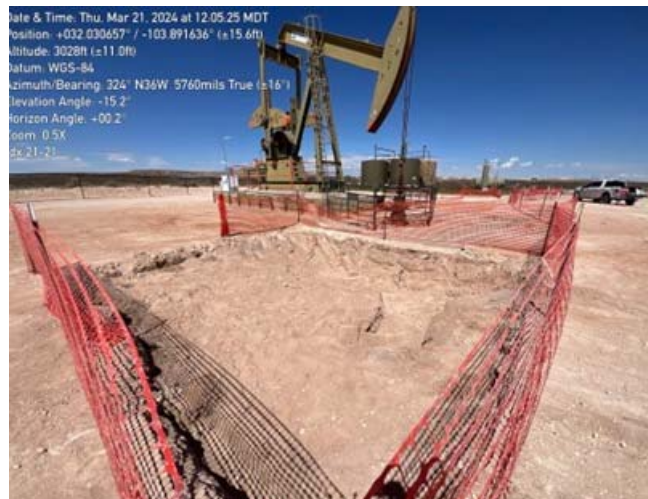
WPX Energy Permian, LLC

RDX Federal 21 #021

Incident Number nAPP2400432622

**Photograph 5****Date: 03/21/2024**

Description: Southwestern view of excavation extent.

**Photograph 6****Date: 03/21/2024**

Description: Northwestern view of excavation extent.

**Photograph 7****Date: 03/21/2024**

Description: Southwestern view of excavation extent.

**Photograph 8****Date: 04/05/2024**

Description: Southeastern view of Site restoration.


APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX Federal 21 #021
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 Number nAPP2400432622										
BH01	01/15/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	16,400
BH01	01/15/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	238
BH01	01/15/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	368
BH02	01/15/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	15,900
BH02	01/15/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,460
BH03	01/15/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	19,100
BH03	01/15/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
BH04	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
BH04	01/19/2024	4	<0.0250	<0.0500	<20.0	241	223	241	464	114
BH05	01/19/2024	0.5	<0.0250	<0.0500	<20.0	1,130	998	1,130	2,130	263
BH05	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	78.3
BH06	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76.5
BH06	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.1
BH07	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.4
BH07	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.2
BH08	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.7
BH08	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	38.7
BH09	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.8
BH09	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.5
BH10	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.0
BH10	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.5
BH11	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	282
BH11	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.0
BH12	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	287
BH12	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
BH13	01/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	279
BH13	01/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	92.5
BH14	01/19/2024	0.5	<0.0250	0.0369	<20.0	1,270	883	1,270	2,150	237
BH14	01/19/2024	4	<0.0250	<0.0500	<20.0	1,290	895	1,290	2,190	254

<div><div></div><div>Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX Federal 21 #021 Eddy County, New Mexico</div></div>										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples - Incident Number nAPP2400432622										
FS01	03/21/2024	0.5-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	119
FS02	03/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	799
FS03	03/21/2024	1	<0.0250	<0.0500	<20.0	42.6	<50.0	42.6	42.6	656
FS04	03/21/2024	0.5	<0.0250	<0.0500	<20.0	48.4	60.4	48.4	109	3,330
FS05	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,720
FS06	03/21/2024	0.5	<0.0250	<0.0500	<20.0	42.7	54.1	42.7	96.8	987
FS07	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,040
FS08	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,320
FS09	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,650
FS10	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,900
FS11	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,960
FS12	03/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,440
SW01	03/21/2024	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	230
SW02	03/21/2024	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	238
SW03	03/21/2024	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	234
SW04	03/21/2024	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	216

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 F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #021

Work Order: E401089

Job Number: 01058-0007

Received: 1/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/23/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/23/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #021
Workorder: E401089
Date Received: 1/18/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/18/2024 6:00:00AM, under the Project Name: RDX Federal 21 #021.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #021 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDx Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/23/24 12:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E401089-01A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH01 2'	E401089-02A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH01 4'	E401089-03A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH02 0.5'	E401089-04A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH02 4'	E401089-05A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH03 0.5'	E401089-06A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.
BH03 4'	E401089-07A	Soil	01/15/24	01/18/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
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BH01 0.5'

E401089-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.1 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403037
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
Surrogate: n-Nonane	82.7 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2403043
Chloride	16400	400	20	01/18/24	01/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
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BH01 2'

E401089-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2403037	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
Surrogate: n-Nonane	91.5 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2403043	
Chloride	238	20.0	1	01/18/24	01/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
--	--	-----------------------------------

BH01 4'

E401089-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2403037	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
Surrogate: n-Nonane	95.0 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2403043	
Chloride	368	20.0	1	01/18/24	01/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
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BH02 0.5'

E401089-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403037
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2403043
Chloride	15900	400	20	01/18/24	01/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
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BH02 4'

E401089-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2403039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2403037	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
Surrogate: n-Nonane	99.3 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2403043	
Chloride	1460	20.0	1	01/18/24	01/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/23/2024 12:47:50PM
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BH03 0.5'

E401089-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403037
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2403043
Chloride	19100	200	10	01/18/24	01/18/24	



Sample Data

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

Project Name: RDX Federal 21 #021
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/23/2024 12:47:50PM

BH03 4'**E401089-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Benzene	ND	0.0250	1	01/18/24	01/18/24	
Ethylbenzene	ND	0.0250	1	01/18/24	01/18/24	
Toluene	ND	0.0250	1	01/18/24	01/18/24	
o-Xylene	ND	0.0250	1	01/18/24	01/18/24	
p,m-Xylene	ND	0.0500	1	01/18/24	01/18/24	
Total Xylenes	ND	0.0250	1	01/18/24	01/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2403039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/18/24	01/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		01/18/24	01/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2403037
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/24	01/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/24	01/18/24	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		01/18/24	01/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2403043
Chloride	1310	20.0	1	01/18/24	01/18/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/23/2024 12:47:50PM

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 (2403039-BLK1) Prepared: 01/18/24 Analyzed: 01/18/24

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	7.62		8.00		95.3	70-130			

LCS (2403039-BS1) Prepared: 01/18/24 Analyzed: 01/18/24

Benzene	4.90	0.0250	5.00		97.9	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	4.97	0.0250	5.00		99.5	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

Matrix Spike (2403039-MS1) Source: E401086-04 Prepared: 01/18/24 Analyzed: 01/18/24

Benzene	4.91	0.0250	5.00	ND	98.3	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.00	0.0250	5.00	ND	99.9	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	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2403039-MSD1) Source: E401086-04 Prepared: 01/18/24 Analyzed: 01/18/24

Benzene	4.97	0.0250	5.00	ND	99.3	54-133	1.10	20	
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133	1.27	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	0.919	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	1.20	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.11	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	1.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/23/2024 12:47:50PM

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 (2403039-BLK1) Prepared: 01/18/24 Analyzed: 01/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		95.9	70-130			

LCS (2403039-BS2) Prepared: 01/18/24 Analyzed: 01/18/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

Matrix Spike (2403039-MS2) Source: E401086-04 Prepared: 01/18/24 Analyzed: 01/18/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2403039-MSD2) Source: E401086-04 Prepared: 01/18/24 Analyzed: 01/18/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.5	70-130	4.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/23/2024 12:47:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2403037-BLK1) Prepared: 01/18/24 Analyzed: 01/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.5		50.0		113	50-200			

LCS (2403037-BS1) Prepared: 01/18/24 Analyzed: 01/18/24

Diesel Range Organics (C10-C28)	222	25.0	250		88.7	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike (2403037-MS1) Source: E401086-03 Prepared: 01/18/24 Analyzed: 01/18/24

Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.5	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike Dup (2403037-MSD1) Source: E401086-03 Prepared: 01/18/24 Analyzed: 01/18/24

Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.6	38-132	1.24	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/23/2024 12:47:50PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2403043-BLK1)					Prepared: 01/18/24 Analyzed: 01/18/24				
Chloride	ND	20.0							
LCS (2403043-BS1)					Prepared: 01/18/24 Analyzed: 01/18/24				
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2403043-MS1)					Source: E401086-02		Prepared: 01/18/24 Analyzed: 01/18/24		
Chloride	276	20.0	250	25.6	100	80-120			
Matrix Spike Dup (2403043-MSD1)					Source: E401086-02		Prepared: 01/18/24 Analyzed: 01/18/24		
Chloride	278	20.0	250	25.6	101	80-120	0.494	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 Federal 21 #021	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/23/24 12:47

- 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 FEDERAL 21 #021				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 4016891		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	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX	GDGC	State				
Phone: 832-541-7719				Email: jim.raley@dyn.com											NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21276304															
Collected by: Edyte Konan				Incident ID: nAPP2400432622															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
9:00	01.15.24	S	1	BH01	1	0.5'							X						
9:10	01.15.24	S	1	BH01	2	2'							X						
9:20	01.15.24	S	1	BH01	3	4'							X						
9:40	01.15.24	S	1	BH02	4	0.5'							X						
10:00	01.15.24	S	1	BH02	5	4'							X						
10:20	01.15.24	S	1	BH03	6	0.5'							X						
10:40	01.15.24	S	1	BH03	7	4'							X						
01/16/2024																			

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: 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>[Signature]</i>	01/16/24	11:50	<i>[Signature]</i>	1-16-24	1150	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gayle</i>	1-17-24	1640	<i>[Signature]</i>	1-17-24	1645	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	1-17-24	2245	<i>[Signature]</i>	1-18-24	6:00	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



envirotech

Envirotech Analytical Laboratory

Printed: 1/18/2024 9:29:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	01/18/24 06:00	Work Order ID:	E401089
Phone:	(539) 573-4018	Date Logged In:	01/17/24 14:33	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/23/24 17:00 (3 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? No
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 No

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 Federal 21 #021

Work Order: E401127

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #021
Workorder: E401127
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX Federal 21 #021.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #021 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 01/29/24 09:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E401127-01A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH04 4'	E401127-02A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH05 0.5'	E401127-03A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH05 4'	E401127-04A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH06 0.5'	E401127-05A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH06 4'	E401127-06A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH07 0.5'	E401127-07A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH07 4'	E401127-08A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH08 0.5'	E401127-09A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH08 4'	E401127-10A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH09 0.5'	E401127-11A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH09 4'	E401127-12A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH10 0.5'	E401127-13A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH10 4'	E401127-14A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH11 0.5'	E401127-15A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH11 4'	E401127-16A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH12 - 0.5'	E401127-17A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH12 4'	E401127-18A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH13 0.5'	E401127-19A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH13 4'	E401127-20A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH14 0.5'	E401127-21A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.
BH14 4'	E401127-22A	Soil	01/19/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH04 0.5'
E401127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	156	40.0	2	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported: 1/29/2024 9:17:15AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH04 4'

E401127-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	241	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	223	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	114	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH05 0.5'
E401127-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	1130	50.0	2	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	998	100	2	01/23/24	01/24/24	
Surrogate: n-Nonane	90.0 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	263	40.0	2	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH05 4'

E401127-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	78.3	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH06 0.5'
E401127-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	76.5	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH06 4'

E401127-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	91.9 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	74.1	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH07 0.5'
E401127-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	98.6 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	95.4	20.0	1	01/23/24	01/24/24	



Sample Data

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

Project Name: RDX Federal 21 #021
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/29/2024 9:17:15AM

BH07 4'**E401127-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	97.2	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH08 0.5'
E401127-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	99.1 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	42.7	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported: 1/29/2024 9:17:15AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH08 4'

E401127-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	93.0 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	38.7	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH09 0.5'
E401127-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	96.4 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	43.8	20.0	1	01/23/24	01/24/24	



Sample Data

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

Project Name: RDX Federal 21 #021
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/29/2024 9:17:15AM

BH09 4'**E401127-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2404030
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2404030
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404032
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		01/23/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2404022
Chloride	37.5	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH10 0.5'
E401127-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	88.4 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	37.0	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH10 4'

E401127-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	91.3 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	37.5	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH11 0.5'
E401127-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	91.2 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	282	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH11 4'

E401127-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	91.2 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	42.0	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH12 - 0.5'
E401127-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	93.7 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	287	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH12 4'

E401127-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	96.3 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	102	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH13 0.5'
E401127-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	94.0 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	279	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH13 4'

E401127-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404032	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/25/24	
Surrogate: n-Nonane	87.0 %	50-200		01/23/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404022	
Chloride	92.5	20.0	1	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
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BH14 0.5'
E401127-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	0.0369	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	1270	50.0	2	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	883	100	2	01/24/24	01/25/24	
Surrogate: n-Nonane	85.4 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	237	40.0	2	01/23/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 21 #021 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:17:15AM
--	--	----------------------------------

BH14 4'

E401127-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	1290	50.0	2	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	895	100	2	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404021	
Chloride	254	40.0	2	01/23/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

Volatile Organics by EPA 8021B

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 (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

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

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

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

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

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

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

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



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

Volatile Organics by EPA 8021B

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 (2404030-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

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	7.62		8.00		95.2	70-130			

LCS (2404030-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.85	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.6	70-130			
Toluene	4.84	0.0250	5.00		96.7	70-130			
o-Xylene	4.80	0.0250	5.00		96.0	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.4	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike (2404030-MS1) Source: E401127-12 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133			
Toluene	4.89	0.0250	5.00	ND	97.7	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131			
p,m-Xylene	9.84	0.0500	10.0	ND	98.4	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2404030-MSD1) Source: E401127-12 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	5.27	0.0250	5.00	ND	105	54-133	7.36	20	
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133	7.33	20	
Toluene	5.25	0.0250	5.00	ND	105	61-130	7.19	20	
o-Xylene	5.22	0.0250	5.00	ND	104	63-131	7.13	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	7.18	20	
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131	7.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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

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

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

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

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

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

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

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



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

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 (2404030-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

LCS (2404030-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		94.9	70-130			

Matrix Spike (2404030-MS2) Source: E401127-12 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2404030-MSD2) Source: E401127-12 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.2	70-130	3.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

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 (2404032-BLK1)					Prepared: 01/23/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.4		50.0		86.7	50-200			

LCS (2404032-BS1)					Prepared: 01/23/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			

Matrix Spike (2404032-MS1)					Source: E401127-14		Prepared: 01/23/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike Dup (2404032-MSD1)					Source: E401127-14		Prepared: 01/23/24 Analyzed: 01/24/24		
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.5	38-132	3.59	20	
Surrogate: n-Nonane	41.5		50.0		83.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404034-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1) Source: E401130-01 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1) Source: E401130-01 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

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 (2404021-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	ND	20.0							
LCS (2404021-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2404021-MS1)					Source: E401126-03		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2404021-MSD1)					Source: E401126-03		Prepared: 01/23/24 Analyzed: 01/23/24		
Chloride	259	20.0	250	ND	103	80-120	0.868	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #021	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:17:15AM

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 (2404022-BLK1)					Prepared: 01/23/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404022-BS1)					Prepared: 01/23/24 Analyzed: 01/24/24				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2404022-MS1)					Source: E401127-01		Prepared: 01/23/24 Analyzed: 01/24/24		
Chloride	398	40.0	250	156	96.6	80-120			
Matrix Spike Dup (2404022-MSD1)					Source: E401127-01		Prepared: 01/23/24 Analyzed: 01/24/24		
Chloride	377	40.0	250	156	88.3	80-120	5.34	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 Federal 21 #021	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:17

- 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 3

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: RDX FEDERAL 21 #021					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401127		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/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WBS/WO: 21276304														
Collected by: Edyte Konan					Incident ID: nAPP2400432622														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
9:10	01.19.24	S	1	BH04	1	0.5'							X						
9:20	01.19.24	S	1	BH04	2	4'							X						
9:30	01.19.24	S	1	BH05	3	0.5'							X						
9:40	01.19.24	S	1	BH05	4	4'							X						
9:50	01.19.24	S	1	BH06	5	0.5'							X						
10:00	01.19.24	S	1	BH06	6	4'							X						
10:10	01.19.24	S	1	BH07	7	0.5'							X						
10:20	01.19.24	S	1	BH07	8	4'							X						
10:30	01.19.24	S	1	BH08	9	0.5'							X						
10:40	01.19.24	S	1	BH08	10	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: 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: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	01/22/24	11:40	<i>Michelle Raley</i>	1-22-24	1140	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Raley</i>	1-22-24	1630	<i>Andrew Moss</i>	1-22-24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Moss</i>	1-22-24	2400	<i>Kristyn R. Hall</i>	1-23-24	0600	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



envirotech

Project Information

Chain of Custody

Page 2 of 3

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program		
Project: RDX FEDERAL 21 #021					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401127		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/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	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					WBS/WO: 21276304														
Collected by: Edyte Konan					Incident ID: nAPP2400432622										x				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks			
10:50	01.19.24	S	1	BH09	11	0.5'							X						
11:00	01.19.24	S	1	BH09	12	4'							X						
11:10	01.19.24	S	1	BH10	13	0.5'							X						
11:20	01.19.24	S	1	BH10	14	4'							X						
11:30	01.19.24	S	1	BH11	15	0.5'							X						
11:40	01.19.24	S	1	BH11	16	4'							X						
11:50	01.19.24	S	1	BH12	17	0.5'							X						
12:00	01.19.24	S	1	BH12	18	4'							X						
12:10	01.19.24	S	1	BH13	19	0.5'							X						
12:20	01.19.24	S	1	BH13	20	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.												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: <input checked="" type="checkbox"/> N											
[Signature]		01/22/24	11:40	[Signature]		1-22-24	11:40												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		1-22-24	16:30	[Signature]		1-22-24	17:30												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		1-22-24	24:00	[Signature]		1-23-24	06:00	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

[illegible]

Envirotech Analytical Laboratory

Printed: 1/24/2024 8:32:52AM

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:	01/23/24 06:00	Work Order ID:	E401127
Phone:	(539) 573-4018	Date Logged In:	01/22/24 15:49	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 21-21

Work Order: E403243

Job Number: 01058-0007

Received: 3/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

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: 3/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 21-21
Workorder: E403243
Date Received: 3/25/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2024 10:00:00AM, under the Project Name: RDX 21-21.

The analytical test results summarized in this report with the Project Name: RDX 21-21 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
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Raina Schwanz
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 12:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.5-5'	E403243-01A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 12:13:27PM
--	--	-----------------------------------

FS01 0.5-5'
E403243-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	93.5 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	119	20.0	1	03/26/24	03/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:13:27PM

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

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	7.68		8.00		96.0	70-130			

LCS (2413054-BS1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.93	0.0250	5.00		98.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2413054-MS1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2413054-MSD1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.79	0.0250	5.00	ND	95.9	54-133	3.17	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	2.61	20	
Toluene	4.77	0.0250	5.00	ND	95.3	61-130	3.01	20	
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131	3.09	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	2.87	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	2.94	20	
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:13:27PM

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2413054-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2413054-MS2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

Matrix Spike Dup (2413054-MSD2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:13:27PM

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 (2413081-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.5	50-200			

LCS (2413081-BS1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike (2413081-MS1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	317	25.0	250	48.4	107	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2413081-MSD1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	324	25.0	250	48.4	110	38-132	2.14	20	
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:13:27PM

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	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 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 12:13

- 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: 3/26/2024 3:31:09PM

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:	03/25/24 10:00	Work Order ID:	E403243
Phone:	(539) 573-4018	Date Logged In:	03/26/24 09:57	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: 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 21-21

Work Order: E403240

Job Number: 01058-0007

Received: 3/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

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: 3/29/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 21-21
Workorder: E403240
Date Received: 3/25/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2024 10:00:00AM, under the Project Name: RDX 21-21.

The analytical test results summarized in this report with the Project Name: RDX 21-21 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
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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 21-21	Reported: 03/29/24 15:21
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 1'	E403240-01A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS03 1'	E403240-02A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 3:21:50PM
--	--	----------------------------------

FS02 1'
E403240-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.5 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413089	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	03/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	03/29/24	
Surrogate: n-Nonane	97.8 %	50-200		03/28/24	03/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	799	20.0	1	03/26/24	03/27/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:21:50PM

FS03 1'

E403240-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413089	
Diesel Range Organics (C10-C28)	42.6	25.0	1	03/28/24	03/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	03/29/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		03/28/24	03/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	656	20.0	1	03/26/24	03/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:21:50PM

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 (2413062-BLK1) Prepared: 03/26/24 Analyzed: 03/26/24

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	7.45		8.00		93.1	70-130			

LCS (2413062-BS1) Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	5.00	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	4.98	0.0250	5.00		99.7	70-130			
o-Xylene	4.91	0.0250	5.00		98.1	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike (2413062-MS1) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.2	70-130			

Matrix Spike Dup (2413062-MSD1) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	4.92	0.0250	5.00	ND	98.3	54-133	2.20	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	2.14	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	2.20	20	
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131	2.01	20	
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131	1.99	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	63-131	2.00	20	
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:21:50PM

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 (2413062-BLK1) Prepared: 03/26/24 Analyzed: 03/26/24

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

LCS (2413062-BS2) Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

Matrix Spike (2413062-MS2) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.4	70-130			

Matrix Spike Dup (2413062-MSD2) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	0.707	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:21:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413089-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			

LCS (2413089-BS1) Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	309	25.0	250		123	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike (2413089-MS1) Source: E403223-25 Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	326	25.0	250	ND	130	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2413089-MSD1) Source: E403223-25 Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132	4.80	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:21:50PM

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	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 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 15:21

- 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 Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dmn.com WBS/WO: 21276304 Incident ID: nAPP2400432622				Lab Use Only				TAT				EPA Program																	
Project: RDX 21-21								Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA															
Project Manager: Gilbert Moreno								E403240		010580007					5 Day TAT																		
Address: 13000 W County Rd 100								Analysis and Method												RCRA													
City, State, Zip: Odessa, TX, 79765								State																									
Phone: 832-541-7719								NM CO UT AZ TX																									
Email: Devon-team@etechenv.com				x																													
Collected by: Gilbert Moreno				Remarks																													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDGC TX																		
9:40	3.21.24	S	1	FS02	1	1'								X																			
9:50	3.21.24	S	1	FS03	2	1'								X																			
<div>Additional Instructions:</div> <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.</p> <p>Relinquished by: (Signature) <u>[Signature]</u> Date <u>3.22.24</u> Time <u>1115</u> Received by: (Signature) <u>[Signature]</u> Date <u>3.22.24</u> Time <u>1115</u></p> <p>Relinquished by: (Signature) <u>[Signature]</u> Date <u>3.22.24</u> Time <u>1530</u> Received by: (Signature) <u>[Signature]</u> Date <u>3/25/24</u> Time <u>1000</u></p> <p>Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____</p> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</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>																																	
																	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.										Received on ice: <u>Y</u> N						
																	T1 _____ T2 _____ T3 _____										AVG Temp °C <u>4</u>						

Envirotech Analytical Laboratory

Printed: 3/26/2024 2:29:26PM

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:	03/25/24 10:00	Work Order ID:	E403240
Phone:	(539) 573-4018	Date Logged In:	03/26/24 09:45	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: 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 21-21

Work Order: E403237

Job Number: 01058-0007

Received: 3/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

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: 3/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 21-21
Workorder: E403237
Date Received: 3/25/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2024 10:00:00AM, under the Project Name: RDX 21-21.

The analytical test results summarized in this report with the Project Name: RDX 21-21 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 21-21	Reported: 03/29/24 13:47
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04 0.5'	E403237-01A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS05 0.5'	E403237-02A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS06 0.5'	E403237-03A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS07 0.5'	E403237-04A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS08 0.5'	E403237-05A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS09 0.5'	E403237-06A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS10 0.5'	E403237-07A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS11 0.5'	E403237-08A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
FS12 0.5'	E403237-09A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 1:47:49PM
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FS04 0.5'

E403237-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413081
Diesel Range Organics (C10-C28)	48.4	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	60.4	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	84.8 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413057
Chloride	3330	200	10	03/26/24	03/27/24	



Sample Data

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

Project Name: RDX 21-21
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/29/2024 1:47:49PM

FS05 0.5'

E403237-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	92.6 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413057
Chloride	1720	40.0	2	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 1:47:49PM

FS06 0.5'

E403237-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413081
Diesel Range Organics (C10-C28)	42.7	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	54.1	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	92.4 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413057
Chloride	987	40.0	2	03/26/24	03/27/24	



Sample Data

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

Project Name: RDX 21-21
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/29/2024 1:47:49PM

FS07 0.5'

E403237-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	95.9 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413057
Chloride	1040	40.0	2	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported: 3/29/2024 1:47:49PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS08 0.5'

E403237-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	102 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		03/26/24	03/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		03/26/24	03/27/24	
Surrogate: Toluene-d8	102 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	96.0 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	2320	40.0	2	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 1:47:49PM
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FS09 0.5'

E403237-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	100 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	100 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	99.8 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	2650	40.0	2	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 1:47:49PM
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FS10 0.5'

E403237-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	103 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	103 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	97.7 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	1900	100	5	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 1:47:49PM
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FS11 0.5'

E403237-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	102 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	102 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	94.6 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	2960	200	10	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported: 3/29/2024 1:47:49PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS12 0.5'

E403237-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	100 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	100 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane	96.1 %	50-200		03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	7440	200	10	03/26/24	03/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 1:47:49PM

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 (2413035-BLK1) Prepared: 03/26/24 Analyzed: 03/27/24

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	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2413035-BS1) Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	1.90	0.0250	2.50		76.0	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.5	70-130			
Toluene	2.34	0.0250	2.50		93.7	70-130			
o-Xylene	2.39	0.0250	2.50		95.5	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.15	0.0250	7.50		95.4	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	0.508		0.500		102	70-130			

Matrix Spike (2413035-MS1) Source: E403232-04 Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	1.90	0.0250	2.50	ND	76.1	48-131			
Ethylbenzene	2.36	0.0250	2.50	ND	94.3	45-135			
Toluene	2.32	0.0250	2.50	ND	92.9	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.5	43-135			
p,m-Xylene	4.88	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.32	0.0250	7.50	ND	97.6	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2413035-MSD1) Source: E403232-04 Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	1.87	0.0250	2.50	ND	74.9	48-131	1.51	23	
Ethylbenzene	2.31	0.0250	2.50	ND	92.5	45-135	1.86	27	
Toluene	2.29	0.0250	2.50	ND	91.7	48-130	1.21	24	
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135	2.16	27	
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135	2.72	27	
Total Xylenes	7.14	0.0250	7.50	ND	95.2	43-135	2.53	27	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 1:47:49PM

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 (2413035-BLK1) Prepared: 03/26/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2413035-BS2) Prepared: 03/26/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike (2413035-MS2) Source: E403232-04 Prepared: 03/26/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.1	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	0.516		0.500		103	70-130			

Matrix Spike Dup (2413035-MSD2) Source: E403232-04 Prepared: 03/26/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130	6.05	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 1:47:49PM

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 (2413081-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.5	50-200			

LCS (2413081-BS1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike (2413081-MS1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	317	25.0	250	48.4	107	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2413081-MSD1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	324	25.0	250	48.4	110	38-132	2.14	20	
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 1:47:49PM

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	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 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 13:47

- 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				Bill To		Lab Use Only										TAT				EPA Program		
Project: RDX 21-21				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 403237		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	GDOC	State					
Phone: 832-541-7719				Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com				WBS/WO: 21276304																		
Collected by: Gilbert Moreno				Incident ID: nAPP2400432622																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks				
10:00	3.21.24	S	1	FS04	1	0.5'									X							
10:10	3.21.24	S	1	FS05	2	0.5'									X							
10:20	3.21.24	S	1	FS06	3	0.5'									X							
10:30	3.21.24	S	1	FS07	4	0.5'									X							
10:40	3.21.24	S	1	FS08	5	0.5'									X							
10:50	3.21.24	S	1	FS09	6	0.5'									X							
11:00	3.21.24	S	1	FS10	7	0.5'									X							
11:10	3.21.24	S	1	FS11	8	0.5'									X							
11:20	3.21.24	S	1	FS12	9	0.5'									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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
		3.22.24		1115				3/22/24		1115		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1										
		3/22/24		1530				3/25/24		1000		T2										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3										
												AVG Temp °C 4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



envirotech

Envirotech Analytical Laboratory

Printed: 3/26/2024 2:06:32PM

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:	03/25/24 10:00	Work Order ID:	E403237
Phone:	(539) 573-4018	Date Logged In:	03/25/24 17:43	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 21-21

Work Order: E403241

Job Number: 01058-0007

Received: 3/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

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: 3/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 21-21
Workorder: E403241
Date Received: 3/25/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2024 10:00:00AM, under the Project Name: RDX 21-21.

The analytical test results summarized in this report with the Project Name: RDX 21-21 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 21-21	Reported: 03/29/24 15:20
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
SW01 0-0.5'	E403241-01A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
SW02 0-0.5'	E403241-02A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 3:20:17PM
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SW01 0-0.5'
E403241-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413052
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		102 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413052
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		102 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413089
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	03/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	03/29/24	
Surrogate: n-Nonane		99.1 %	50-200	03/28/24	03/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413057
Chloride	230	20.0	1	03/26/24	03/27/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported: 3/29/2024 3:20:17PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

SW02 0-0.5'
E403241-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413052	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	105 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene	105 %	70-130		03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		03/26/24	03/28/24	
Surrogate: Toluene-d8	101 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413089	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	03/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	03/29/24	
Surrogate: n-Nonane	104 %	50-200		03/28/24	03/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	238	20.0	1	03/26/24	03/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:20:17PM

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 (2413052-BLK1)

Prepared: 03/26/24 Analyzed: 03/28/24

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	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2413052-BS1)

Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.23	0.0250	2.50		89.2	70-130			
Ethylbenzene	2.24	0.0250	2.50		89.4	70-130			
Toluene	2.15	0.0250	2.50		86.1	70-130			
o-Xylene	2.12	0.0250	2.50		84.6	70-130			
p,m-Xylene	4.24	0.0500	5.00		84.7	70-130			
Total Xylenes	6.35	0.0250	7.50		84.7	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2413052-MS1)

Source: E403244-38

Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.47	0.0250	2.50	ND	99.0	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.9	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2413052-MSD1)

Source: E403244-38

Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.65	0.0250	2.50	ND	106	48-131	3.71	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	4.29	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	3.98	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	6.24	27	
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135	5.94	27	
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135	6.04	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:20:17PM

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 (2413052-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2413052-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike (2413052-MS2) Source: E403244-38 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.3	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2413052-MSD2) Source: E403244-38 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	12.5	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:20:17PM

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 (2413089-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			

LCS (2413089-BS1) Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	309	25.0	250		123	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike (2413089-MS1) Source: E403223-25 Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	326	25.0	250	ND	130	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2413089-MSD1) Source: E403223-25 Prepared: 03/28/24 Analyzed: 03/28/24

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132	4.80	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 3:20:17PM

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	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 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 15:20

- 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 Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WBS/WO: 21276304 Incident ID: nAPP2400432622		Lab Use Only				TAT				EPA Program						
Project: RDX 21-21						Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Gilbert Moreno						E403241	0058-0007				5 Day TAT									
Address: 13000 W County Rd 100						Analysis and Method									RCRA					
City, State, Zip: Odessa, TX, 79765						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																NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com																x				
Collected by: Gilbert Moreno				Remarks																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
11:30	3.21.24	S	1	SW01	1	0-0.5'								X						
11:40	3.21.24	S	1	SW02	2	0-0.5'								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)				Date	Time	Received by: (Signature)				Date	Time	Lab Use Only								
				3.22.24	1115					3/22/24	1115	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	
				3.22.24	1530					3/25/24	1000									
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: 3/26/2024 2:44:16PM

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	Date Received:	03/25/24 10:00	Work Order ID:	E403241
Phone:	(539) 573-4018	Date Logged In:	03/26/24 09:50	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: 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 21-21

Work Order: E403242

Job Number: 01058-0007

Received: 3/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

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: 3/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 21-21
Workorder: E403242
Date Received: 3/25/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2024 10:00:00AM, under the Project Name: RDX 21-21.

The analytical test results summarized in this report with the Project Name: RDX 21-21 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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Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported: 03/29/24 12:15
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
SW03 0-5'	E403242-01A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.
SW04 0-5'	E403242-02A	Soil	03/21/24	03/25/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 12:15:14PM
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SW03 0-5'
E403242-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	93.6 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	234	20.0	1	03/26/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 21-21 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/29/2024 12:15:14PM
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SW04 0-5'
E403242-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	93.3 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	216	20.0	1	03/26/24	03/27/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:15:14PM

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

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	7.68		8.00		96.0	70-130			

LCS (2413054-BS1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.93	0.0250	5.00		98.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2413054-MS1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2413054-MSD1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.79	0.0250	5.00	ND	95.9	54-133	3.17	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	2.61	20	
Toluene	4.77	0.0250	5.00	ND	95.3	61-130	3.01	20	
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131	3.09	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	2.87	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	2.94	20	
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:15:14PM

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2413054-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2413054-MS2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

Matrix Spike Dup (2413054-MSD2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:15:14PM

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 (2413081-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.5	50-200			

LCS (2413081-BS1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike (2413081-MS1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	317	25.0	250	48.4	107	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2413081-MSD1) Source: E403237-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	324	25.0	250	48.4	110	38-132	2.14	20	
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 21-21	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/29/2024 12:15:14PM

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	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 21-21	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/29/24 12:15

- 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 21-21				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E403242		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	GD	State						
Phone: 832-541-7719				Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com				WBS/WO: 21276304																			
Collected by: Gilbert Moreno				Incident ID: nAPP2400432622																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks						
11:50	3.21.24	S	1	SW03	1	0-5'								X									
12:00	3.21.24	S	1	SW04	2	0-5'								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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only											
		3.22.24		1115				3.22.24		1115		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1											
		3.22.24		1530				3.25.24		1000		T2											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3											
												AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Envirotech Analytical Laboratory

Printed: 3/26/2024 3:26:53PM

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:	03/25/24 10:00	Work Order ID:	E403242
Phone:	(539) 573-4018	Date Logged In:	03/26/24 09:54	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

APPENDIX G

Correspondence & Notifications

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, March 11, 2024 8:51 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Extension Request RDX 21-21 - nAPP2400432622

RE: Incident #NAPP2400432622

Jim,

Your request for a 90-day extension to **June 10th, 2024**, 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: Monday, March 11, 2024 6:08 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] Extension Request RDX 21-21 - nAPP2400432622

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

Robert,

WPX respectfully asks for a 90 day extension for incident# nAPP2400432622. This was a small 5bbl release on the RDX 21-21 well pad (30-015-41267) that occurred on 12/28/2023. We have delineated and planned our remediation and are currently in the process of dispatching contractors to excavate and bring this incident to closure.

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



District I

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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 302170

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302170
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400432622
Incident Name	NAPP2400432622 RDX FEDERAL 21 #021 @ 30-015-41267
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41267] RDX FEDERAL 21 #021

Location of Release Source

Site Name	RDX FEDERAL 21 #021
Date Release Discovered	12/28/2023
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	1,317
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/15/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno with any questions at (432)305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd and Pipeline Rd, head east on Pipeline Rd for approximately 3.34 miles; head south for approximately 0.95 miles; head east 0.76 miles; head south for approximately 0.56 miles; turn right for approximately 0.43 miles; turn left for approximately 0.28 to reach the RDX 21-21 Well pad (32.0307, -103.8917)

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CONDITIONS

Action 302170

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302170
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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

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Santa Fe, NM 87505

QUESTIONS

Action 303869

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 303869
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400432622
Incident Name	NAPP2400432622 RDX FEDERAL 21 #021 @ 30-015-41267
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41267] RDX FEDERAL 21 #021

Location of Release Source	
Site Name	RDX FEDERAL 21 #021
Date Release Discovered	12/28/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,317
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/19/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno with any questions at (432)305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of Tarbrush Rd and Pipeline Rd, head east on Pipeline Rd for approximately 3.34 miles; head south for approximately 0.95 miles; head east 0.76 miles; head south for approximately 0.56 miles; turn right for approximately 0.43 miles; turn left for approximately 0.28 to reach the RDX 21-21 Well pad (32.0307, -103.8917)

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CONDITIONS

Action 303869

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 303869
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/16/2024

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Santa Fe, NM 87505

QUESTIONS

Action 324563

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 324563
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400432622
Incident Name	NAPP2400432622 RDX FEDERAL 21 #021 @ 30-015-41267
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41267] RDX FEDERAL 21 #021

Location of Release Source

Site Name	RDX FEDERAL 21 #021
Date Release Discovered	12/28/2023
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	2,396
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2024
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, head east on Pipeline Rd for approximately 3.34 miles; head south for approximately 0.95 miles; head east 0.76 miles; head south for approximately 0.56 miles; turn right for approximately 0.43 miles; turn left for approximately 0.28 to reach the RDX 21-21 Well pad (32.0307, -103.8917)

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Santa Fe, NM 87505

CONDITIONS

Action 324563

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 324563
	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.	3/19/2024

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Santa Fe, NM 87505

QUESTIONS

Action 337575

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	337575
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400432622
Incident Name	NAPP2400432622 RDX FEDERAL 21 #021 @ 30-015-41267
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41267] RDX FEDERAL 21 #021

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX FEDERAL 21 #021
Date Release Discovered	12/28/2023
Surface Owner	Federal

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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 5 BBL Recovered: 2 BBL Lost: 3 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 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	337575
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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@dmv.com Date: 01/04/2024
--	--

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QUESTIONS, Page 3

Action 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 337575
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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)	Between 500 and 1000 (ft.)
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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	19100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2190
GRO+DRO (EPA SW-846 Method 8015M)	1290
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/19/2024
On what date will (or did) the final sampling or liner inspection occur	03/21/2024
On what date will (or was) the remediation complete(d)	03/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	2047
What is the estimated volume (in cubic yards) that will be reclaimed	305
What is the estimated surface area (in square feet) that will be remediated	2396
What is the estimated volume (in cubic yards) that will be remediated	136

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 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	337575
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and 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@dvni.com Date: 04/25/2024
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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 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	337575
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	337575
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	324563
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2024
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	2396

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2396
What was the total volume (cubic yards) remediated	136
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 04/25/2024
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QUESTIONS, Page 7

Action 337575

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 337575
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 337575

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	337575
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2400432622 RDX FEDERAL 21 #021, thank you. This Remediation Closure Report is approved.	5/10/2024