



# SITE CHARACTERIZATION AND REMEDIATION PLAN

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

*Site Information:*

**RDX 15 East Production Pad**

**Incident Number nAPP2423222600**

*Unit I, Section 15, Township 26 South, Range 30 East*

*Eddy County, New Mexico*

*(32.0416679°, -103.8637238°)*

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## SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan (SCRP) detailing soil sampling activities associated with an inadvertent release of produced water at the RDX 15 East Production Pad (Site) and proposing a depth to groundwater boring within a ½-mile of the Site to confirm the Site Closure Criteria. Based on laboratory analytical results from soil sampling activities at the Site, WPX proposes this SCR, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

## SITE LOCATION AND RELEASE BACKGROUND

The production well (API 30-015-39935) for this Site is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). The subject release is located west of the production well at the tank battery containment, which is depicted on **Figure 1** in **Appendix A**.

On August 15, 2024, a storage tank failure resulted in the release of approximately 20 barrels (bbls) of produced water within an earthen bermed tank battery containment. A vacuum truck was dispatched to the Site and recovered approximately 15 bbls of fluids. The incident was reported to the New Mexico Conservation Division (NMOCD) on a Release Notification and Corrective Action Form (Form C-141) on August 19, 2024, and was subsequently assigned Incident Number nAPP2423222600. The observed extent of the release was mapped with a handheld Global Positioning System (GPS) unit, hereafter referred to as the Area of Concern (AOC), which is depicted on **Figure 2** in **Appendix A**.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

Based on the desktop review for 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.

Regional depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs) based on borings surrounding the Site with recent depth to groundwater data, defined by no greater than 25 years old. The most recently advanced soil boring (MW-1) was drilled by Talon LPE for WPX on December 8, 2020, located approximately 0.9 miles southwest of the Site on the Ross Draw Unit #38 well pad (**Figure 1A** in **Appendix A**). Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. Regional soil borings and groundwater wells are shown on **Figure 1A** in **Appendix A**. The referenced boring log is provided as **Appendix B**.

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

Based on the results from the initial desktop review that no recent depth to groundwater data is available within ½-mile from the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

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

All potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**.

## DELINEATION SOIL SAMPLING ACTIVITIES

On September 12, 2024, Etech conducted delineation to assess the vertical and lateral extents of residual impacts associated with the AOC. Ten delineation potholes (PH01 through PH10) were advanced to 2 feet bgs within and surrounding the AOC. Delineation was driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Two soil samples were collected for laboratory analysis per delineation soil sampling location, representing the highest observed field screening concentration(s) and the terminus depth. Field screening results and soil descriptions are detailed on Soil Sampling Logs included in **Appendix C**. Photographic documentation of excavation activities is included in **Appendix D**.

The delineation soil samples were placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of the COCs. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**.

## DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated BTEX and TPH concentrations were below the Site Closure Criteria.

Laboratory analytical results for delineation soil samples collected within the AOC indicated chloride concentrations exceeded the Site Closure Criteria at 0.5-foot bgs. Laboratory analytical results for all delineation soil samples collected outside of the AOC indicated chloride concentrations were below the Site Closure Criteria, except PH07 and PH08 at 0.5-foot bgs.

Concentrations of residual chloride impacts may be characterized by concentrations ranging from 880 mg/kg to 16,800 mg/kg within the top 0.5-foot bgs. The terminus soil sample from each delineation soil sampling location yielded concentrations of COCs 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**.

## CONFIRMATION SOIL SAMPLING ACTIVITIES

On November 7, 2024, Etech collected 5-point composite confirmation soil samples from the floors (FS01 through FS12) and sidewalls (SW01 and SW02) of the AOC, representing no more than 200 square feet per composite soil sample. Soil was field screening soil for VOCs and chloride as previously described. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed as previously described. The confirmation soil sample locations are shown in **Figure 3** in **Appendix A**. Photographic documentation of confirmation soil sampling activities is included in **Appendix D**.

## CONFIRMATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation excavation soil samples indicated BTEX concentrations were below the Site Closure Criteria.

Laboratory analytical results for the final confirmation excavation soil samples indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria for all confirmation soil samples, except FS06, FS09, FS11, FS12 and SW02.

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**.

## REMEDIATION PLAN

Based on the delineation and confirmation excavation soil sample analytical results, the following conclusions regarding the release are presented:

- Based on delineation and confirmation soil sample laboratory analytical results, residual impacts, defined by Site Closure Criteria, appear to be contained within the top 0.5-foot bgs and have been sufficiently vertically and horizontally delineated.
- Regional groundwater data suggests groundwater depth at the Site is greater than 100 feet bgs, however, there are no available recent depth to groundwater data and/or measurements from a groundwater well and/or soil boring within ½-mile from the Site.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- Drilling permits will be prepared to advance a soil boring, which includes but is not limited to:
  - BLM land access permitting and approval,
  - Cultural and/or Biological Surveys,
  - Coordination and scheduling to retain a drill rig, and
  - Approval of drilling permit(s) by New Mexico Office of the State Engineer (NMOSE).
- A soil boring will be advanced up to 101 feet bgs or until groundwater is reached, whichever occurs first, within ½-mile of the Site to determine depth to groundwater at the Site. The boring will be left open for a minimum 72-hour observation period to allow groundwater to equilibrate if present. Following the observation period, depth to groundwater and/or the dry soil boring depth will be measured with an interface probe and recorded on a soil boring log to be submitted with the Plugging Record to NMOSE. Upon determining the depth to groundwater and consideration of the desktop review presented in this SCRP, WPX proposes to update the Site Closure Criteria according to Table I in NMAC 19.15.29.12 and submit the well record to the NMOCDD via email for review and approval.

- As such, the Site will be remediated via dig and haul method according to the appropriate Site Closure Criteria, which is to be determined pending the results of the proposed soil boring.
  - Any excavation(s) required for removal of identified impacts will be advanced laterally and vertically until confirmation soil sample results from the floor and sidewalls of the excavation meet the Site Closure Criteria, unless advancement is inhibited by existing, active infrastructure. In which case, WPX may implement encroachment requirements for the health and safety of on-site personnel and for the structural integrity of active infrastructure. Such restricts include but are not limited to leaving soil in place beneath and/or directly adjacent to said infrastructure within an area reasonably being used for production purposes.
  - Following completion of an excavation, 5-point composite confirmation soil samples that represent no greater than 200 square feet per soil sample will be collected from the floor and sidewalls of the excavation. Confirmation soil samples will be collected, handled, and analyzed for COCs by an accredited laboratory as previously described.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or [joseph@etechenv.com](mailto:joseph@etechenv.com) or Anna Byers at (432) 305-6415 or [anna@etechenv.com](mailto:anna@etechenv.com). **Appendix I** provides correspondence and/or email notification receipts associated with the subject release. Previous remediation activities and soil sample analytical results for the subject release can be referenced in archived reports in **Appendix J**.

Sincerely,  
Etech Environmental and Safety Solutions, Inc.



Anna Byers  
Senior Geologist



Joseph S. Hernandez  
Senior Managing Geologist

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

**Appendices:**

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

Figure 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: Confirmation Soil Sample Locations

**Appendix B:** Referenced Well Records

**Appendix C:** Soil Sampling Logs

**Appendix D:** Photographic Log

**Appendix E:** Tables

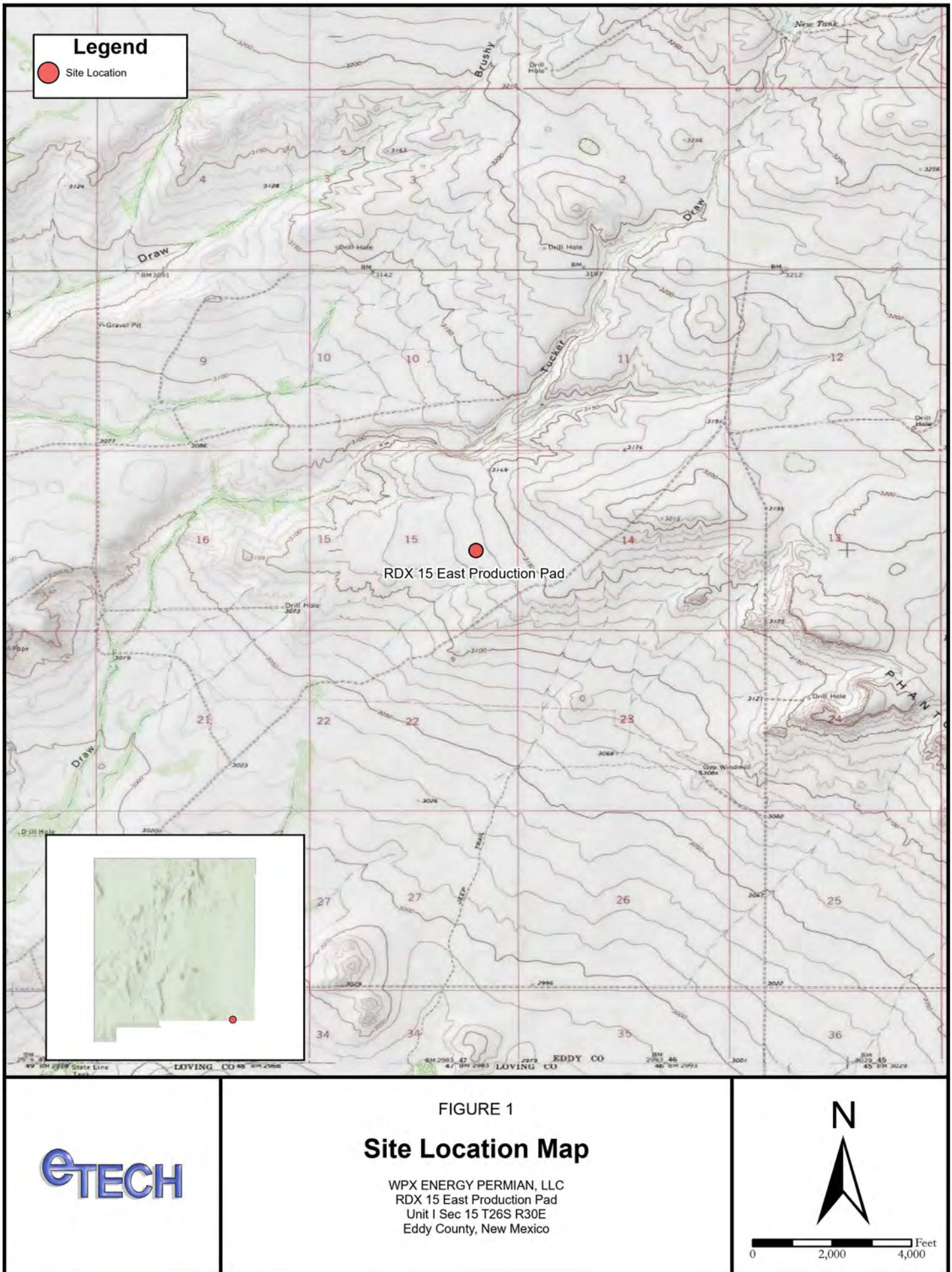
**Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation

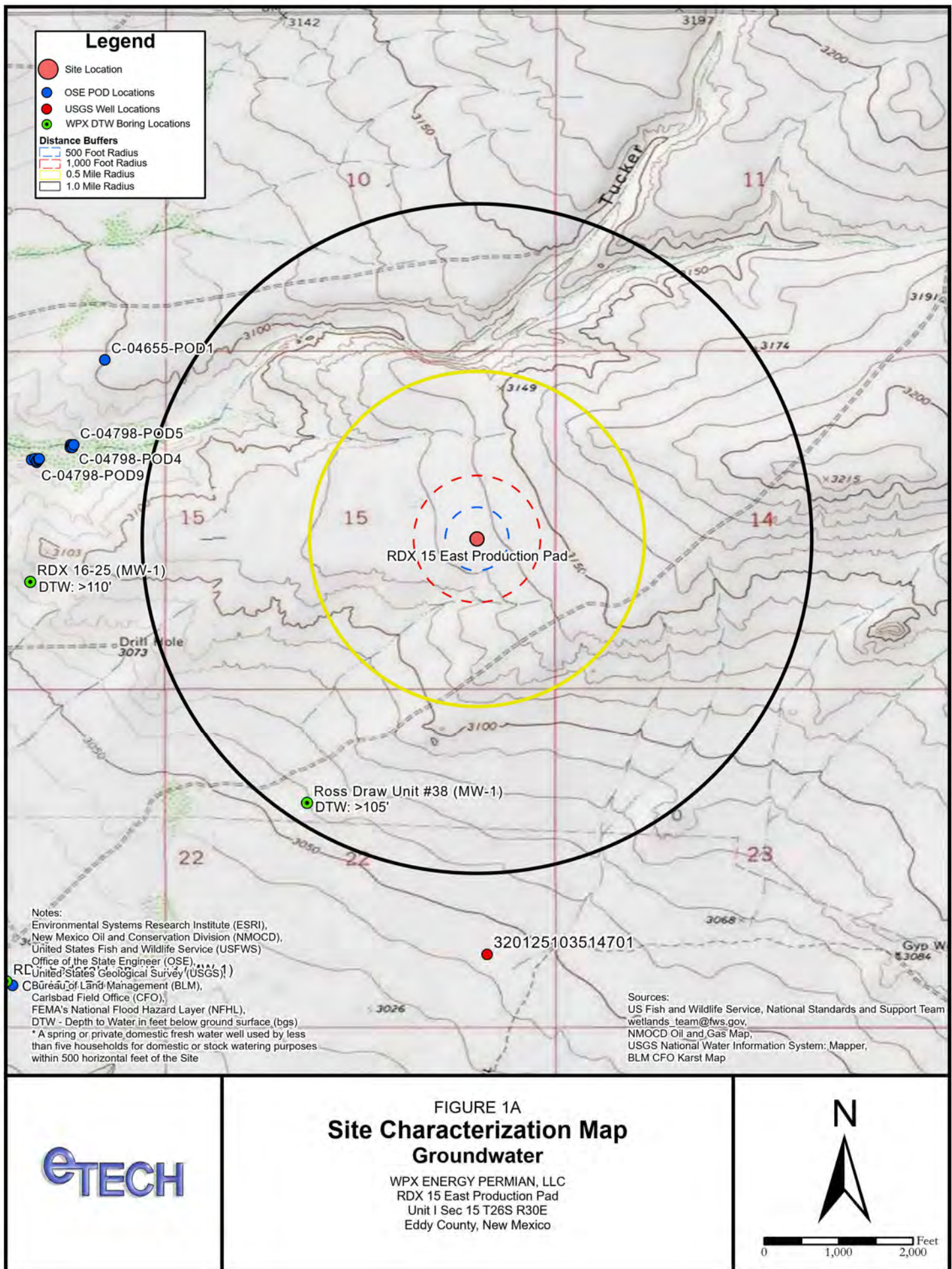
**Appendix G:** Correspondence & Notifications

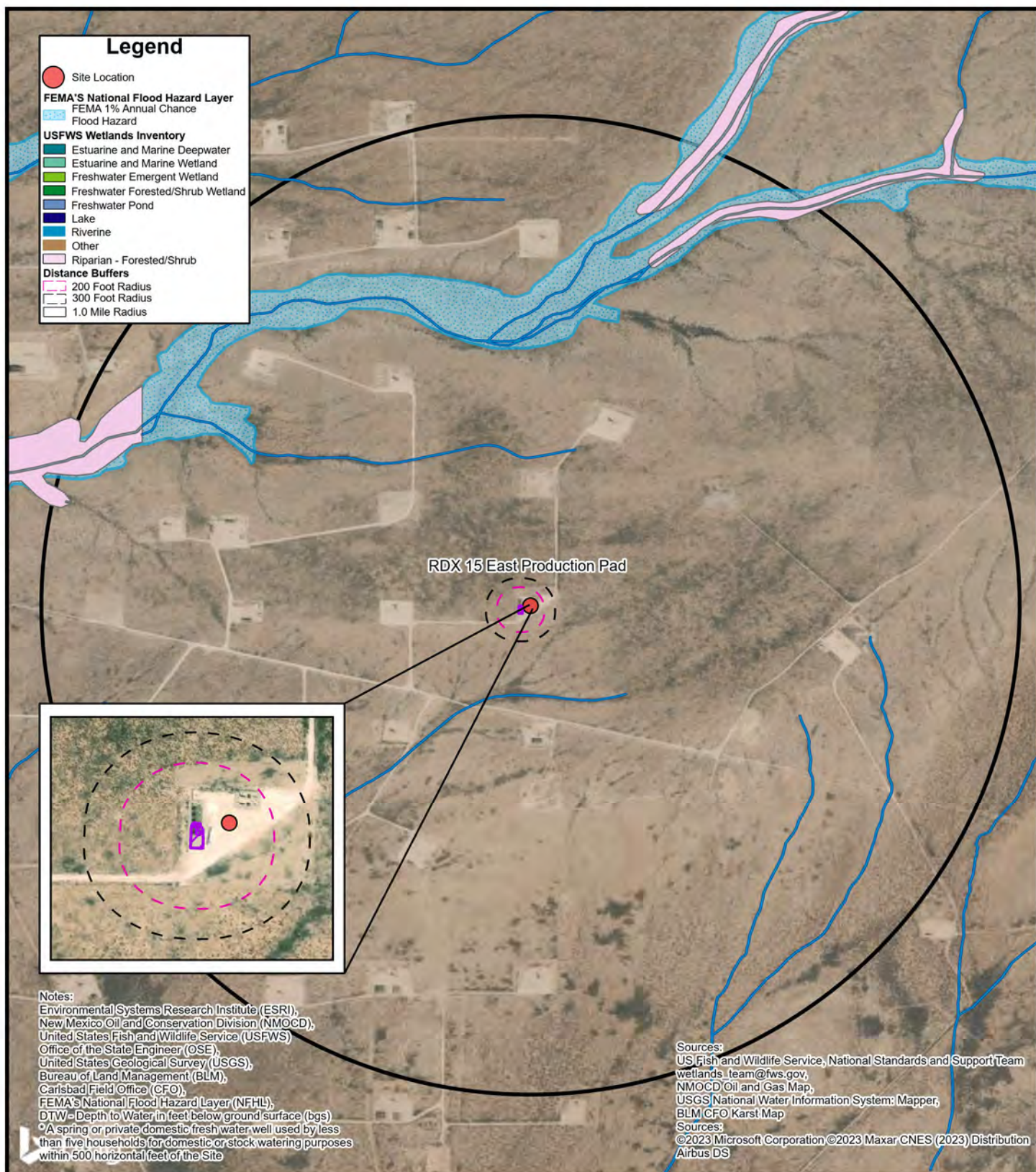
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# APPENDIX A

## Figures







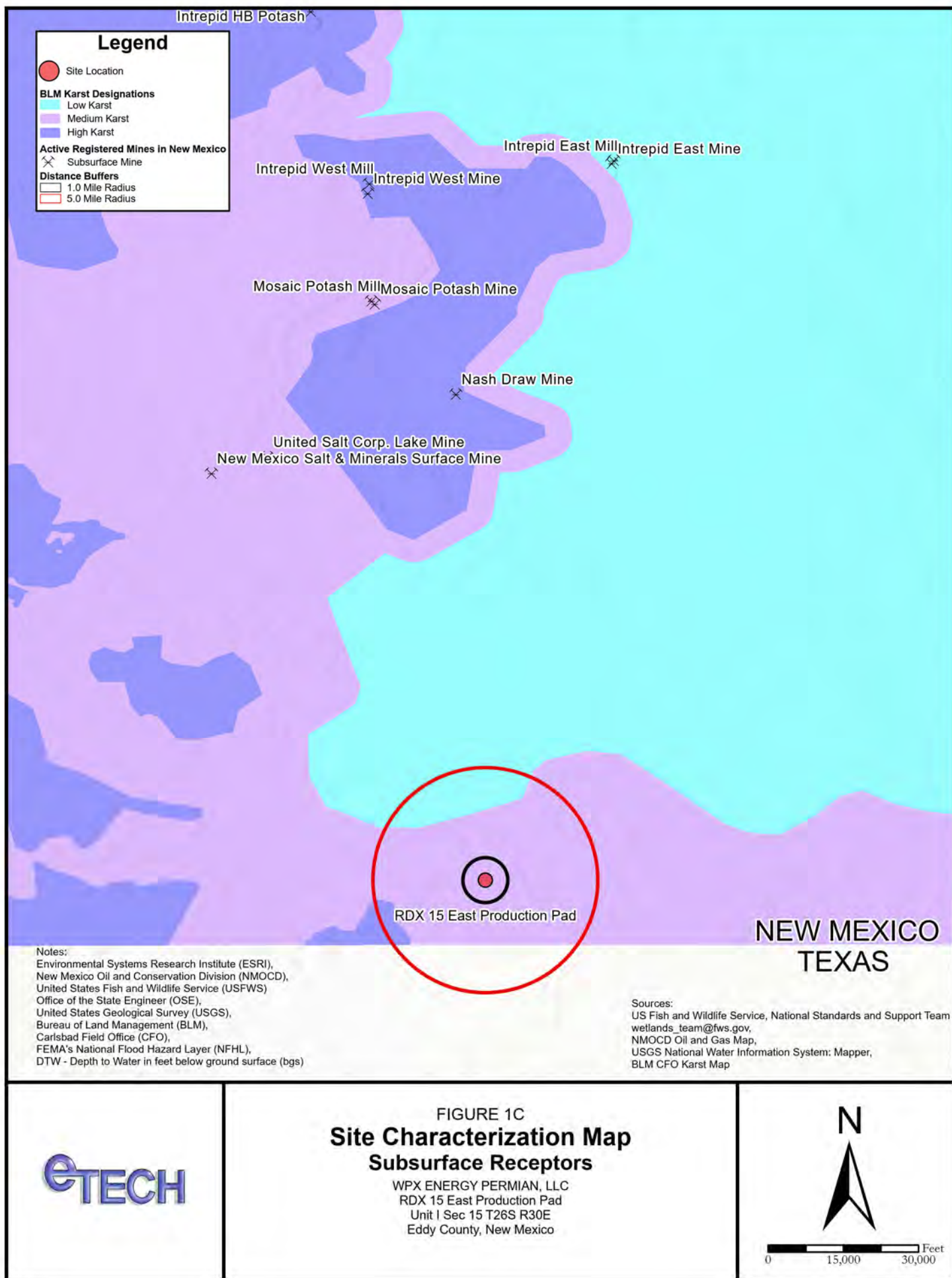




FIGURE 2

## Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC  
RDX 15 East Production Pad  
Unit 1 Sec 15 T26S R30E  
Eddy County, New Mexico



0 15 30 Feet

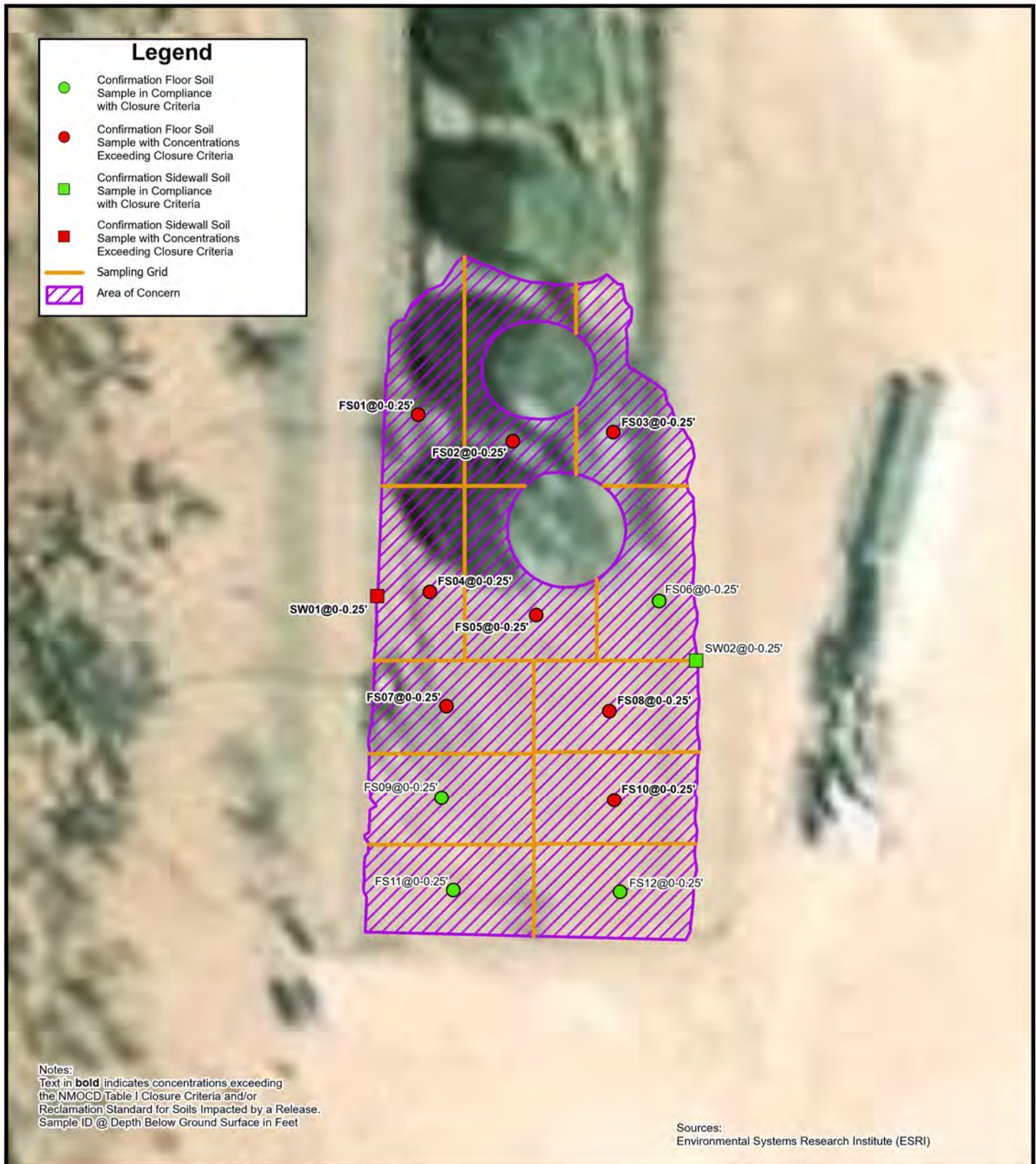


FIGURE 3

## Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC  
RDX 15 East Production Pad  
Unit 1 Sec 15 T26S R30E  
Eddy County, New Mexico




0 9.5 19 Feet

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## APPENDIX B


### Referenced Well Records

 <b>HRL COMPLIANCE SOLUTIONS</b>							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: Ross Draw Unit #38			
							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: 32.030300		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs			Boring Total Depth (ft. BGS): 105			Longitude: -103.871338			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100-105 ft		Well Total Depth (ft. BGS): 105			Depth to Water (ft. BTOC): > 105		
											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	SW	NS	Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand				
5													
10													
15													
20	NM	L	D	N	N	NM	SP	NS	Pale orange/pale pink poorly graded fine sand				
25													
30													
35	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand				
40													
45													
50													
55													
60													
65	NM	L	D	N	N	NM	SP	NS	Brick red brown poorly graded fine sand				
70													
75													
80													
85													
90													
95	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS				
100													

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# APPENDIX C

## Soil Sampling Logs

								Sample Name: PH01		Date: 09/12/2024	
								Site Name: RDX 15 East Production Pad			
								Incident Number: nAPP2423222600			
								Job Number: 20985			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Backhoe	
Coordinates: 32.041633, -103.864267								Hole Diameter: N/A		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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
M	1,588	0.0	No	PH01	0.5	0.5	CCHE	(0-0.5'): Light tan, pad surface CALICHE, well compacted, staining on surface only (0-0.15' bgs), no odor (0.5-1.5'): Brown, well graded SAND WITH SILT, fine to coarse grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor			
D	352	0.1	No		1	1	SW-SM				
D	<120	0.1	No	PH01	2	2	CCHE				
						3					
D	<120	0.1	No	PH01	4	4	CCHE				
Total Depth											



Sample Name: PH02      Date: 09/12/2024  
 Site Name: RDX 15 East Production Pad  
 Incident Number: nAPP2423222600  
 Job Number: 20985

### LITHOLOGIC / SOIL SAMPLING LOG


Logged By: Haleigh Blume      Method: Backhoe  
 Hole Diameter: N/A      Total Depth: 4 feet


Coordinates: 32.041570, -103.864267


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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
M	>2,420	0.2	No	PH02	0.5	0.5	CCHE	(0-0.5'): Light tan, pad surface CALICHE, well compacted, staining on surface only (0-0.15' bgs), no odor (0.5-1.5'): Brown, well graded SAND WITH SILT, fine to coarse grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor @ 4' color change to light pinkish tan
D	>2,420	0.6	No		1	1	SW-SM	
D	<120	0.2	No	PH02	2	2	CCHE	
						3		
D	<120	0.1	No	PH02	4	4	CCHE	


Total Depth


								Sample Name: PH03		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Hand Auger			
Coordinates: 32.041811, -103.864273								Hole Diameter: 3.25 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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	<120	0.3	No	PH03	0.5	0.5	CCHE	(0-0.25'): Light tan, pad surface CALICHE, well compacted, no stain, no odor (0.5-1.5'): Brown, well graded SAND WITH SILT, fine to coarse grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor @ 4' color change to light pinkish tan					
D	<120	0.1	No		1	1	SW-SM						
D	<120	0.0	No	PH03	2	2	CCHE						
						3							
D	<120	0.0	No	PH03	4	4	CCHE	Total Depth					


								Sample Name: PH04		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Backhoe			
Coordinates: 32.041664, -103.864195								Hole Diameter: N/A		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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	<576	0.0	No	PH04	0.5	0.5	CCHE	(0-0.25'): Light tan, pad surface CALICHE, well compacted, no stain, no odor					
D	<576	0.1	No		1	1	CCHE	(1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor					
D	<576	0.1	No	PH04	2	2	CCHE	@ 4' color change to light pinkish tan					
						3							
D	<576	0.1	No	PH04	4	4	CCHE						
Total Depth													


								Sample Name: PH05		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Backhoe			
Coordinates: 32.041572, -103.864192								Hole Diameter: N/A		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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	<576	0.0	No	PH05	0.5	0.5	CCHE	(0-0.25'): Light tan, pad surface CALICHE, well compacted, no stain, no odor (1-3.5'): Brown, poorly graded SAND WITH SILT, fine to medium grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (3.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor @ 4' color change to light pinkish tan					
D	<576	0.0	No		1	1	SP-SM						
D	<576	0.0	No	PH05	2	2	SP-SM						
						3							
D	<576	0.0	No	PH05	4	4	CCHE						
Total Depth													

								Sample Name: PH06		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Backhoe			
Coordinates: 32.041510, -103.864270								Hole Diameter: N/A		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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	<576	0.0	No	PH06	0.5	0.5	CCHE	(0-0.25'): Light tan, pad surface CALICHE, well compacted, no stain, no odor (0.25-1.5'): Brown, poorly graded SAND WITH SILT, fine to medium grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), well cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor					
D	<576	0.0	No		1	1	SP-SM						
D	<576	0.0	No	PH06	2	2	CCHE						
						3							
D	<576	0.0	No	PH06	4	4	CCHE	Total Depth					

								Sample Name: PH07		Date: 09/12/2024	
								Site Name: RDX 15 East Production Pad			
								Incident Number: nAPP2423222600			
								Job Number: 20985			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Hand Auger	
Coordinates: 32.041577, -103.864362								Hole Diameter: 3.25 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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
D	766	0.0	No	PH07	0.5	0.5	SP-SM	(0-1.5'): Brown, poorly graded SAND WITH SILT AND GRAVEL, fine to medium grain, gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), poorly to moderately cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor @1' Increase gravel (>15%)			
D	848	0.0	No		1	1	SP-SM				
D	<576	0.0	No	PH07	2	2	CCHE				
						3					
D	848	0.0	No	PH07	4	4	CCHE				
Total Depth											

								Sample Name: PH08		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Hand Auger			
Coordinates: 32.041676, -103.864364								Hole Diameter: 3.25 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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	1,232	0.0	No	PH08	0.5	0.5	SP-SM	(0-1.5'): Brown, poorly graded SAND WITH SILT, fine to medium grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), poorly cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor					
D	1,342	0.0	No		1	1	SP-SM						
D	<576	0.0	No	PH08	2	2	CCHE						
						3							
D	<576	0.0	No	PH08	4	4	CCHE						
Total Depth													

								Sample Name: PH09		Date: 09/12/2024			
								Site Name: RDX 15 East Production Pad					
								Incident Number: nAPP2423222600					
								Job Number: 20985					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Hand Auger			
Coordinates: 32.041581, -103.864414								Hole Diameter: 3.25 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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
D	<576	0.0	No	PH09	0.5	0.5	SP-SM	(0-1.5'): Brown, poorly graded SAND WITH SILT, fine to medium grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor, trace organics (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), poorly cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor					
D	<576	0.0	No		1	1	SP-SM						
D	<576	0.0	No	PH09	2	2	CCHE						
						3							
D	<576	0.0	No	PH09	4	4	CCHE						
Total Depth													

								Sample Name: PH10		Date: 09/12/2024	
								Site Name: RDX 15 East Production Pad			
								Incident Number: nAPP2423222600			
								Job Number: 20985			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Haleigh Blume		Method: Hand Auger	
Coordinates: 32.041684, -103.864410								Hole Diameter: 3.25 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. "N/A" - Not Applicable. "M" - Moist/"D" - Dry.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
D	<576	0.0	No	PH10	0.5	0.5	SP-SM	(0-1.5'): Brown, poorly graded SAND WITH SILT, fine to medium grain, <15% gravel (5-15mm), no plasticity, no cohesiveness, no staining, no odor, trace organics (1.5-4'): Light tan to white, CALICHE, well graded fine to coarse grained matrix with gravel (5-15mm), moderately to well cemented, coarsening upwards sequence, no plasticity, no cohesiveness, no odor @1' gravel to cobble size CALICHE clasts @1.5'-4' decreased cementation consolidation with depth			
D	<576	0.0	No		1	1	SP-SM				
D	<576	0.0	No	PH10	2	2	CCHE				
						3					
D	<576	0.0	No	PH10	4	4	CCHE				
Total Depth											

---

## APPENDIX D

### Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Permian Energy, LLC

RDX 15 East Production Pad

Incident Number nAPP2423222600

**Photograph 1****Date: 09/12/2024**

Description: Southwestern view of delineation activities.

**Photograph 2****Date: 09/12/2024**

Description: Northwestern view of delineation activities.

**Photograph 3****Date: 11/07/2024**

Description: Northern view of confirmation activities.

**Photograph 4****Date: 11/07/2024**

Description: Northeastern view of confirmation activities .

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# APPENDIX E

## Tables



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**WPX Energy Permian, LLC**  
**RDX 15 East Production Pad**  
**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)	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	100	600
Delineation Soil Samples - Incident Number nAPP2423222600									
PH01	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,570
PH01	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH02	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	16,800
PH02	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	83.5
PH03	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH03	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH04	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	368
PH04	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	270
PH05	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	55.7
PH05	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	270
PH06	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH06	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH07	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	880
PH07	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	158
PH08	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,140
PH08	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	222
PH09	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 <sup>†</sup>
PH09	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	21.3 <sup>†</sup>
PH10	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 <sup>†</sup>
PH10	09/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 <sup>†</sup>
Confirmation Soil Samples - Incident Number nAPP2423222600									
FS01	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	3,240	3,280	6,520	4,350
FS02	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	670	616	1,290	4,530
FS03	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	2,050	1,230	3,280	348
FS04	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	4,880	3,220	8,100	5,370
FS05	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	286	317	603	2,180
FS06	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	253
FS07	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	1,110	811	1,920	1,690
FS08	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	929
FS09	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	427
FS10	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	184	260	444	1,770



Table 1  
SOIL SAMPLE ANALYTICAL RESULTS  
WPX Energy Permian, LLC  
RDX 15 East Production Pad  
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)	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	100	600
FS11	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	129
FS12	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	206
SW01	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<b>1,850</b>
SW02	11/07/2024	0-0.25	<0.0250	<0.0500	<20.0	33.3	58.8	92.1	244

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

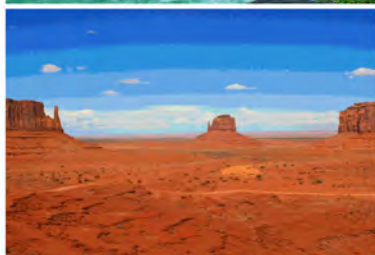
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard<sup>†</sup> for Soils Impacted by a Release<sup>†</sup> The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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## APPENDIX F

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

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 Production Pad

Work Order: E409118

Job Number: 01058-0007

Received: 9/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/19/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/19/24



Erick Herrera  
5315 Buena Vista Dr  
Carlsbad, NM 88220

Project Name: RDX 15 Production Pad  
Workorder: E409118  
Date Received: 9/16/2024 7:30:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/16/2024 7:30:00AM, under the Project Name: RDX 15 Production Pad.

The analytical test results summarized in this report with the Project Name: RDX 15 Production Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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

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## Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 09/19/24 16:44
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 0.5'	E409118-01A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH01 - 2'	E409118-02A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH02 - 0.5'	E409118-03A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH02 - 2'	E409118-04A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH03 - 0.5'	E409118-05A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH03 - 2'	E409118-06A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH04 - 0.5'	E409118-07A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH04 - 2'	E409118-08A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH05 - 0.5'	E409118-09A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH05 - 2'	E409118-10A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH06 - 0.5'	E409118-11A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH06 - 2'	E409118-12A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH07 - 0.5'	E409118-13A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH07 - 2'	E409118-14A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH08 - 0.5'	E409118-15A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH08 - 2'	E409118-16A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH09 - 0.5'	E409118-17A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH09 - 2'	E409118-18A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH10 - 0.5'	E409118-19A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
PH10 - 2'	E409118-20A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH01 - 0.5'  
E409118-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	78.4 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	1570	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH01 - 2'

E409118-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.9 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	81.4 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported: 9/19/2024 4:44:41PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	

PH02 - 0.5'  
E409118-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	70.8 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	16800	200	10	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH02 - 2'

E409118-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	83.8 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	83.5	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH03 - 0.5'  
E409118-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	77.2 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH03 - 2'

E409118-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	87.3 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 9/19/2024 4:44:41PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	

PH04 - 0.5'  
E409118-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	83.7 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	368	20.0	1	09/16/24	09/17/24	



## Sample Data

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

Project Name: RDX 15 Production Pad  
Project Number: 01058-0007  
Project Manager: Erick Herrera

**Reported:**  
9/19/2024 4:44:41PM

PH04 - 2'

E409118-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438008
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437109
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	81.1 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438020
Chloride	270	20.0	1	09/16/24	09/17/24	



## Sample Data

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

Project Name: RDX 15 Production Pad  
Project Number: 01058-0007  
Project Manager: Erick Herrera

**Reported:**  
9/19/2024 4:44:41PM

PH05 - 0.5'

E409118-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438008
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437109
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	79.6 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438020
Chloride	55.7	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH05 - 2'

E409118-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	79.3 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	270	20.0	1	09/16/24	09/17/24	



## Sample Data

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

Project Name: RDX 15 Production Pad  
Project Number: 01058-0007  
Project Manager: Erick Herrera

**Reported:**  
9/19/2024 4:44:41PM

PH06 - 0.5'

E409118-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		09/16/24	09/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		09/16/24	09/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	80.0 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH06 - 2'

E409118-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	84.9 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH07 - 0.5'  
E409118-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	75.9 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	880	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH07 - 2'

E409118-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	79.6 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	158	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 9/19/2024 4:44:41PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	

PH08 - 0.5'  
E409118-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	79.7 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	1140	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH08 - 2'

E409118-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	84.4 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	222	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH09 - 0.5'  
E409118-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	80.0 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH09 - 2'

E409118-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
Surrogate: n-Nonane	84.6 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	21.3	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH10 - 0.5'  
E409118-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 9/19/2024 4:44:41PM
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PH10 - 2'

E409118-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		09/16/24	09/18/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437109	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/19/24	
<i>Surrogate: n-Nonane</i>						
	86.8 %	50-200		09/14/24	09/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438020	
Chloride	ND	20.0	1	09/16/24	09/17/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	9/19/2024 4:44:41PM

Volatile Organics by EPA 8021B

Analyst: CG

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 (2438008-BLK1) Prepared: 09/16/24 Analyzed: 09/17/24

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	7.01		8.00		87.6	70-130			

LCS (2438008-BS1) Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	4.38	0.0250	5.00		87.7	70-130			
Ethylbenzene	4.19	0.0250	5.00		83.9	70-130			
Toluene	4.30	0.0250	5.00		86.1	70-130			
o-Xylene	4.15	0.0250	5.00		83.1	70-130			
p,m-Xylene	8.53	0.0500	10.0		85.3	70-130			
Total Xylenes	12.7	0.0250	15.0		84.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

Matrix Spike (2438008-MS1) Source: E409118-11 Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	4.40	0.0250	5.00	ND	88.0	54-133			
Ethylbenzene	4.22	0.0250	5.00	ND	84.4	61-133			
Toluene	4.32	0.0250	5.00	ND	86.4	61-130			
o-Xylene	4.19	0.0250	5.00	ND	83.7	63-131			
p,m-Xylene	8.57	0.0500	10.0	ND	85.7	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			

Matrix Spike Dup (2438008-MSD1) Source: E409118-11 Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	4.38	0.0250	5.00	ND	87.6	54-133	0.424	20	
Ethylbenzene	4.22	0.0250	5.00	ND	84.3	61-133	0.0711	20	
Toluene	4.31	0.0250	5.00	ND	86.2	61-130	0.243	20	
o-Xylene	4.19	0.0250	5.00	ND	83.7	63-131	0.00239	20	
p,m-Xylene	8.58	0.0500	10.0	ND	85.8	63-131	0.0787	20	
Total Xylenes	12.8	0.0250	15.0	ND	85.1	63-131	0.0521	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	9/19/2024 4:44:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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 (2438008-BLK1) Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

LCS (2438008-BS2) Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

Matrix Spike (2438008-MS2) Source: E409118-11 Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2438008-MSD2) Source: E409118-11 Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.1	70-130	0.0936	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	9/19/2024 4:44:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2437109-BLK1)					Prepared: 09/14/24 Analyzed: 09/18/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS (2437109-BS1)					Prepared: 09/14/24 Analyzed: 09/18/24				
Diesel Range Organics (C10-C28)	187	25.0	250		74.7	38-132			
Surrogate: n-Nonane	46.6		50.0		93.1	50-200			

Matrix Spike (2437109-MS1)					Source: E409118-04		Prepared: 09/14/24 Analyzed: 09/18/24		
Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.8	38-132			
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			

Matrix Spike Dup (2437109-MSD1)					Source: E409118-04		Prepared: 09/14/24 Analyzed: 09/19/24		
Diesel Range Organics (C10-C28)	183	25.0	250	ND	73.3	38-132	15.6	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Erick Herrera	9/19/2024 4:44:41PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2438020-BLK1)					Prepared: 09/16/24 Analyzed: 09/17/24				
Chloride	ND	20.0							
LCS (2438020-BS1)					Prepared: 09/16/24 Analyzed: 09/17/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2438020-MS1)					Source: E409118-01		Prepared: 09/16/24 Analyzed: 09/17/24		
Chloride	1860	20.0	250	1570	116	80-120			
Matrix Spike Dup (2438020-MSD1)					Source: E409118-01		Prepared: 09/16/24 Analyzed: 09/17/24		
Chloride	1850	20.0	250	1570	114	80-120	0.347	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 15 Production Pad	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Erick Herrera	09/19/24 16:44

- 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 2

Client: WPX Energy				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 15 Production Pad				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Erick Herrera				Address: 5315 Buena Vista Dr.				E409118		01059-0007					5 day TAT				
Address: 4100 4154 7-Rivers Hwy				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method										RCRA	
City, State, Zip: Carlsbad NM 88220				Phone: 575-885-7502															
Phone: 432-305-6416				Email: jim.raley@dmn.com														State	
Email: Devon-team@etechnv.com				WBS/WO: 3386763														NM CO UT AZ TX	
Collected by: Anna Byers				Incident ID: APP2423222600														x	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0		BGDOC NM	GDOC TX	Remarks				
0905	9/12/24	S	1	PH01 @ 0.5' AB	1	0.5							X		Project Number 20985				
0915				PH01 @ 2' AB	2	2							X						
1000				PH02 @ 0.5' AB	3	0.5							X						
1010				PH02 @ 2' AB	4	2							X						
1025				PH03 @ 0.5' AB	5	0.5							X						
1045				PH03 @ 2' AB	6	2							X						
1205				PH04 @ 0.5' AB	7	0.5							X						
1215				PH04 @ 2' AB	8	2							X						
1245				PH05 @ 0.5' AB	9	0.5							X						
1255				PH05 @ 2' AB	10	2							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											
[Signature]		9/12/24	18:00	[Signature]		9/12/24	18:30	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											
[Signature]		9.13.24	1800	[Signature]		9.13.24	1800												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		9.13.24	2400	[Signature]		9.16.24	7:30	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

## Project Information

## Chain of Custody

Page 2 of 2

Client: <u>WPX Energy</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>PDX 15 Production Pad</u>				Attention: <u>Jim Raley</u>				Lab WO# <u>E409118</u>				Job Number <u>01058-0007</u>				1D 2D 3D Standard CWA SDWA			
Project Manager: <u>Eric Herrera</u>				Address: <u>5315 Buena Vista Dr.</u>												5 day TAT			
Address: <u>4154 7 Rivers Hwy</u>				City, State, Zip: <u>Carlsbad, NM, 88220</u>				Analysis and Method								RCRA			
City, State, Zip: <u>Carlsbad, NM 88220</u>				Phone: <u>575-885-7502</u>															
Phone: <u>432-305-6416</u>				Email: <u>jim.raley@dvn.com</u>															
Email: <u>Devon-team@etechnv.com</u>				WBS/WO: <u>21386965</u>															
Collected by: <u>Anna Byers</u>				Incident ID: <u>nAPP2423222600</u>															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8250	Metals 60.10	Chloride 300.0		BGDOC NM	GDOC TX	State				
															NM CO UT AZ TX				
															x				
															Remarks				
1325	9/12/24	S	1	PH06	11	AS							X		Project Number 20985				
1335				PH06	12	2							X						
1440				PH07	13	0.5							X						
1450				PH07	14	2							X						
1500				PH08	15	0.5							X						
1510				PH08	16	2							X						
1530				PH09	17	0.5							X						
1540				PH09	18	2							X						
1600				PH10	19	0.5							X						
1615				PH10	20	2							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											
<u>[Signature]</u>		9/12/24	18:00	<u>[Signature]</u>		9/12/24	18:30	Received on ice: <u>Q/N</u>											
<u>[Signature]</u>		9.13.24	1600	<u>[Signature]</u>		9.13.24	1800	T1 T2 T3											
<u>[Signature]</u>		9.13.24	2400	<u>[Signature]</u>		9.16.24	7:30	AVG Temp °C <u>4</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


**envirotech**

## Envirotech Analytical Laboratory

Printed: 9/16/2024 10:38:02AM

## 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:	09/16/24 07:30	Work Order ID:	E409118
Phone:	(539) 573-4018	Date Logged In:	09/13/24 16:10	Logged In By:	Noe Soto
Email:		Due Date:	09/20/24 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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

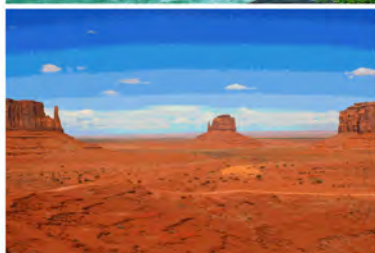
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Haleigh Blume



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 Production Pad

Work Order: E411091

Job Number: 01058-0007

Received: 11/9/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/11/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/11/24

Haleigh Blume  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 15 Production Pad  
Workorder: E411091  
Date Received: 11/9/2024 10:00:00AM

Haleigh Blume,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: RDX 15 Production Pad.

The analytical test results summarized in this report with the Project Name: RDX 15 Production Pad 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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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:  11/11/24 16:47
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0-0.25'	E411091-01A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS02 0-0.25'	E411091-02A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS03 0-0.25'	E411091-03A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS04 0-0.25'	E411091-04A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS05 0-0.25'	E411091-05A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS06 0-0.25'	E411091-06A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS07 0-0.25'	E411091-07A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS08 0-0.25'	E411091-08A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS09 0-0.25'	E411091-09A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS10 0-0.25'	E411091-10A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS11 0-0.25'	E411091-11A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS12 0-0.25'	E411091-12A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: RDX 15 Production Pad  
Project Number: 01058-0007  
Project Manager: Haleigh Blume

**Reported:**  
11/11/2024 4:47:21PM

FS01 0-0.25'

E411091-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	3240	125	5	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	3280	250	5	11/11/24	11/11/24	
Surrogate: n-Nonane	115 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	4350	40.0	2	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS02 0-0.25'  
E411091-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	670	50.0	2	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	616	100	2	11/11/24	11/11/24	
Surrogate: n-Nonane	108 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	4530	40.0	2	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:47:21PM
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FS03 0-0.25'  
E411091-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	2050	50.0	2	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	1230	100	2	11/11/24	11/11/24	
Surrogate: n-Nonane	106 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	348	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported: 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS04 0-0.25'  
E411091-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	84.3 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	4880	125	5	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	3220	250	5	11/11/24	11/11/24	
Surrogate: n-Nonane	101 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	5370	40.0	2	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:47:21PM
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FS05 0-0.25'  
E411091-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	85.3 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	286	50.0	2	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	317	100	2	11/11/24	11/11/24	
Surrogate: n-Nonane	98.5 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	2180	40.0	2	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:47:21PM
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FS06 0-0.25'  
E411091-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.1 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	105 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	253	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported: 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS07 0-0.25'  
E411091-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	86.8 %	70-130		11/11/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		11/11/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	1110	50.0	2	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	811	100	2	11/11/24	11/11/24	
Surrogate: n-Nonane	98.8 %	50-200		11/11/24	11/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	1690	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:47:21PM
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FS08 0-0.25'  
E411091-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.4 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	103 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2446006	
Chloride	929	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:47:21PM
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FS09 0-0.25'  
E411091-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.5 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	109 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	427	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS10 0-0.25'  
E411091-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	86.4 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	184	50.0	2	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	260	100	2	11/11/24	11/11/24	
Surrogate: n-Nonane	90.7 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	1770	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS11 0-0.25'  
E411091-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.1 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	92.2 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	129	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported: 11/11/2024 4:47:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

FS12 0-0.25'  
E411091-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.0 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	96.2 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	206	20.0	1	11/11/24	11/11/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:47:21PM

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 (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			

LCS (2446001-BS1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	4.44	0.0250	5.00		88.8	70-130			
Ethylbenzene	4.30	0.0250	5.00		86.0	70-130			
Toluene	4.39	0.0250	5.00		87.7	70-130			
o-Xylene	4.29	0.0250	5.00		85.9	70-130			
p,m-Xylene	8.77	0.0500	10.0		87.7	70-130			
Total Xylenes	13.1	0.0250	15.0		87.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

LCS Dup (2446001-BSD1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	5.30	0.0250	5.00		106	70-130	17.6	20	
Ethylbenzene	5.16	0.0250	5.00		103	70-130	18.2	20	
Toluene	5.25	0.0250	5.00		105	70-130	17.9	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	18.2	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	18.1	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	18.1	20	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:47:21PM

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 (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

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

LCS (2446001-BS2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2446001-BSD2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.3	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:47:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446004-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS (2446004-BS1) Prepared: 11/11/24 Analyzed: 11/11/24

Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

LCS Dup (2446004-BSD1) Prepared: 11/11/24 Analyzed: 11/11/24

Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132	26.1	20	R3
Surrogate: n-Nonane	64.4		50.0		129	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:47:21PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2446006-BLK1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	ND	20.0							
LCS (2446006-BS1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2446006-MS1)					Source: E411091-01		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	5100	40.0	250	4350	299	80-120			M4
Matrix Spike Dup (2446006-MSD1)					Source: E411091-01		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	4570	40.0	250	4350	86.1	80-120	11.0	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 15 Production Pad	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/24 16:47

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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 15 Production Pad					Attention: Jim Raley		Lab WO#		Job Number								1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Haleigh Blume					Address: 5315 Buena Vista Dr.		E411091		010580007											24 Hr TAT					
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method														RCRA				
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC	TX	GDOC	State							
Phone: 432-305-6415					Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX			
Email: Devon-team@etechnv.com					WBS/VO: 21386765													x							
Collected by: Haleigh Blume					Incident ID: nAPP2423222600																Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																				
15:05	11.07.24	S	1	FS01	1	0-0.25'									X										
15:10	11.07.24	S	1	FS02	2	0-0.25'									X										
15:15	11.07.24	S	1	FS03	3	0-0.25'									X										
15:20	11.07.24	S	1	FS04	4	0-0.25'									X										
15:25	11.07.24	S	1	FS05	5	0-0.25'									X										
15:30	11.07.24	S	1	FS06	6	0-0.25'									X										
15:35	11.07.24	S	1	FS07	7	0-0.25'									X										
15:40	11.07.24	S	1	FS08	8	0-0.25'									X										
15:45	11.07.24	S	1	FS09	9	0-0.25'									X										
15:50	11.07.24	S	1	FS10	10	0-0.25'									X										

**Additional Instructions:**

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature)				Received by: (Signature)				Lab Use Only			
Haleigh Blume				Michelle Gonzales				Received on ice: Y / N			
Date: 11-8-24				Date: 11-8-24				T1			
Time: 1645				Time: 1645				T2			
Relinquished by: (Signature)				Received by: (Signature)				T3			
Michelle Gonzales				Cathy Ma				AVG Temp °C 4			
Date: 11-8-24				Date: 11-9-24							
Time: 2237				Time: 10:00							

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

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only										TAT				EPA Program	
Project: RDX 15 Production Pad					Attention: Jim Raley		Lab WO# E411091					Job Number 01058-0007					1D	2D	3D	Standard	CWA	SDWA
Project Manager: Haleigh Blume					Address: 5315 Buena Vista Dr.															24 Hr TAT		
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method															RCRA
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX	State				
Phone: 432-305-6415					Email: jim.raley@dyn.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WBS/WO: 2138265													x				
Collected by: Haleigh Blume					Incident ID: nAPP2423222600													Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
15:55	11.07.24	S	1	FS11	11	0-0.25'									X							
16:00	11.07.24	S	1	FS12	12	0-0.25'									X							

## Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						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: HB											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
Haleigh Blume		11/08/24	11:15	Michelle Gonzales		11-8-24	11:15	Received on ice: (Y) / N			
Michelle Gonzales		11-8-24	16:45			11-8-24	16:45	T1 T2 T3			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
Lath Ma		11-8-24	22:37			11-9-24	10:00	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

## Envirotech Analytical Laboratory

Printed: 11/11/2024 8:16:05AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411091
Phone:	(539) 573-4018	Date Logged In:	11/08/24 16:17	Logged In By:	Noe Soto
Email:		Due Date:	11/11/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: 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

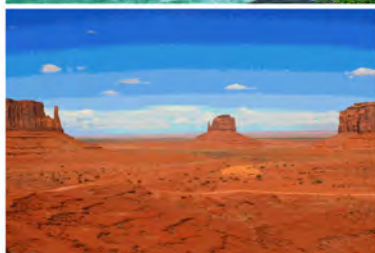
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Haleigh Blume



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 Production Pad

Work Order: E411092

Job Number: 01058-0007

Received: 11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/11/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/11/24

Haleigh Blume  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 15 Production Pad  
Workorder: E411092  
Date Received: 11/9/2024 10:00:00AM

Haleigh Blume,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: RDX 15 Production Pad.

The analytical test results summarized in this report with the Project Name: RDX 15 Production Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Laboratory Administrator  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

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

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/24 16:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-0.25'	E411092-01A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
SW02 0-0.25'	E411092-02A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 Production Pad Project Number: 01058-0007 Project Manager: Haleigh Blume	Reported: 11/11/2024 4:14:51PM
--	---	-----------------------------------

SW01 0-0.25'

E411092-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	114 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	1850	20.0	1	11/11/24	11/11/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	<b>Reported:</b> 11/11/2024 4:14:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	

SW02 0-0.25'  
E411092-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		11/11/24	11/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	33.3	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	58.8	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	122 %	50-200		11/11/24	11/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2446006	
Chloride	244	20.0	1	11/11/24	11/11/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:14:51PM

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 (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			

LCS (2446001-BS1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	4.44	0.0250	5.00		88.8	70-130			
Ethylbenzene	4.30	0.0250	5.00		86.0	70-130			
Toluene	4.39	0.0250	5.00		87.7	70-130			
o-Xylene	4.29	0.0250	5.00		85.9	70-130			
p,m-Xylene	8.77	0.0500	10.0		87.7	70-130			
Total Xylenes	13.1	0.0250	15.0		87.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

LCS Dup (2446001-BSD1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	5.30	0.0250	5.00		106	70-130	17.6	20	
Ethylbenzene	5.16	0.0250	5.00		103	70-130	18.2	20	
Toluene	5.25	0.0250	5.00		105	70-130	17.9	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	18.2	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	18.1	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	18.1	20	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:14:51PM

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 (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

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

LCS (2446001-BS2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2446001-BSD2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.3	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:14:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446004-BLK1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS (2446004-BS1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

LCS Dup (2446004-BSD1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132	26.1	20	R3
Surrogate: n-Nonane	64.4		50.0		129	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 Production Pad	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/2024 4:14:51PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2446006-BLK1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	ND	20.0							
LCS (2446006-BS1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2446006-MS1)					Source: E411091-01		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	5100	40.0	250	4350	299	80-120			M4
Matrix Spike Dup (2446006-MSD1)					Source: E411091-01		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	4570	40.0	250	4350	86.1	80-120	11.0	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 15 Production Pad	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Haleigh Blume	11/11/24 16:14

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



## Project Information

### Chain of Custody

## Page 1 of 1

[illegible]

## 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: HB

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>Dale G. Dunn</i>	Date <i>11-8-24</i>	Time <i>11:15</i>	Received by: (Signature) <i>Michelle Gonzales</i>	Date <i>11-8-24</i>	Time <i>11:15</i>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date <i>11-8-24</i>	Time <i>11:45</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>11-8-24</i>	Time <i>11:45</i>	
Relinquished by: (Signature) <i>[Signature]</i>	Date <i>11-8-24</i>	Time <i>12:37</i>	Received by: (Signature) <i>Paula Ma</i>	Date <i>11-9-24</i>	Time <i>10:00</i>	

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

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

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



**envirotech**

## Envirotech Analytical Laboratory

Printed: 11/11/2024 8:31:34AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411092
Phone:	(539) 573-4018	Date Logged In:	11/08/24 16:25	Logged In By:	Noe Soto
Email:		Due Date:	11/11/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: 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

---

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



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 380653

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380653
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2423222600
Incident Name	NAPP2423222600 RDX 15 EAST PRODUCTION PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	RDX 15 EAST PRODUCTION PAD
Date Release Discovered	08/15/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,401
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From intersection of Buck Jackson Rd and Pipeline Rd head West on Pipeline Rd for approx. 2.24 mi, head South for approx. 0.87 mi at the Y, Left for approx 1.34 mi, West for 0.55 mi, North for 0.14 mi, East for 0.18 mi, Northeast for 0.04 mi to GPS point (32.041814, -103.863988).

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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 380653

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380653
	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.	9/4/2024

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QUESTIONS  
  
Action 399269

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 399269
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2423222600
Incident Name	NAPP2423222600 RDX 15 EAST PRODUCTION PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	RDX 15 EAST PRODUCTION PAD
Date Release Discovered	08/15/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,401
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/07/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From intersection of Buck Jackson Rd and Pipeline Rd head West on Pipeline Rd for approx. 2.24 mi, head South for approx. 0.87 mi at the Y, Left for approx 1.34 mi, West for 0.55 mi, North for 0.14 mi, East for 0.18 mi, Northeast for 0.04 mi to GPS point (32.041814, -103.863988).

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CONDITIONS

Action 399269

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 399269
	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.	11/4/2024

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**Santa Fe, NM 87505**

QUESTIONS

Action 403003

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2423222600
Incident Name	NAPP2423222600 RDX 15 EAST PRODUCTION PAD @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

**Location of Release Source***Please answer all the questions in this group.*

Site Name	RDX 15 EAST PRODUCTION PAD
Date Release Discovered	08/15/2024
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   Production Tank   Produced Water   Released: 20 BBL   Recovered: 15 BBL   Lost: 5 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 403003

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 11/13/2024
--	---

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QUESTIONS, Page 3

Action 403003

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	16800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8100
GRO+DRO (EPA SW-846 Method 8015M)	8100
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	02/10/2025
On what date will (or did) the final sampling or liner inspection occur	05/10/2025
On what date will (or was) the remediation complete(d)	06/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	75

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 403003

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R-360 Red bluff
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 11/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 403003

QUESTIONS (continued)

Operator:  WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:  246289
	Action Number:  403003
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 403003

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	399270
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	2401

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 403003

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 403003
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please make sure that the edge of the release extent is accurately defined, especially around equipment. The work will need to occur in 90 days after the report has been reviewed.	12/20/2024