



June 14, 2024

**New Mexico Energy Minerals and Natural Resources Department**

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request  
RDX Federal 9 #005  
Incident Number nAPP2407827868  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC. (WPX), has prepared this *Deferral Request* to document assessment and soil sampling activities at the RDX Federal 9 #005 (Site) in Unit H, Section 9, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The Site (32.0599861° N, 103.8809204° W) is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2407827868 until the Site is reconstructed and/or the well pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

On March 17, 2024, a power failure caused a tank to overflow, resulting in the release of approximately 96 barrels (bbls) of crude oil into the lined tank battery containment; 1 bbl of crude oil leaked from the northeast corner of the lined secondary containment impacting a small area on-pad (approximately 450 square feet). A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 95 bbl of released crude oil was recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via web portal to the New Mexico Oil Conservation Division (NMOCD) District II Office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) via on the NMOCD Portal March 18, 2024. The release was assigned Incident Number nAPP2407827868. The Form C-141 can be referenced on the NMOCD Portal.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be 200 feet below ground surface (bgs) based on groundwater depth measurement of a nearby water well. On June 3, 2011, a soil boring (New Mexico Office of the State Engineer (NMOSE file number C-03483) was drilled nearly 0.9 miles from the Site. Soil boring C-03483 was drilled to a depth of 700 feet bgs. Depth to groundwater was confirmed at 200 feet bgs as indicated on the Well Record and Log (Appendix A).

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.22 miles east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES

On March 19, 2024, Ensolum personnel visited the Site to evaluate the release extent. Ensolum personnel returned to the Site on March 26, 2024, to complete a liner integrity inspection and it was determined that the liner was insufficient. Five assessment soil samples (SS01 through SS05) were collected around the release extent on-pad at ground surface. The soil samples were field screened for TPH utilizing a PetroFLAG<sup>®</sup> Hydrocarbon Test Kit and chloride using Mohr Method titration. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

## DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Ensolum returned to the Site on April 2, 2024, to conduct delineation activities to assess for the presence or absence of impacts to soil beneath the containment liner. The liner was found insufficient during the March 2024 inspection and as such, two boreholes, BH01 and BH02, were advanced in the general vicinity of the damaged liner and BH03 was advanced in the spill area on the northeast side of the lined secondary containment. Boreholes were advanced via hand auger to a terminal depth of 3 feet, 1-foot,

and 1.5 feet bgs, respectively. Ensolum personnel hit refusal in borehole location BH01 at 3 feet bgs and in borehole location BH03 at 1.5 feet bgs.

Soil samples from the boreholes were field screened for TPH and chloride, handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from BH01 at surface level to 3 feet bgs, from BH02 at surface level to 1-foot bgs, and from BH03 at surface level to 1-foot bgs for laboratory analysis.

Beginning on May 24, 2024, Ensolum personnel oversaw the excavation of impacted soil from the spill area on the northeast corner of the lined secondary containment. Excavation activities were performed via backhoe and trackhoe to depths ranging from ground surface to 14 feet bgs. To direct excavation activities, soil was field screened for TPH and chloride as previously described. Due to the proximity of borehole BH01 to the edge of the containment wall and to process pipping, a pothole (PH01) was advanced via backhoe 2 feet north of BH01 outside of the containment wall. Pothole (PH01) was advanced to a depth of 4 feet bgs. Photographic documentation is included in Appendix B.

On May 29, 2024, Ensolum personnel returned to the Site to conduct confirmation sampling activities. 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS03) were collected from the floor of the excavation at depths ranging from 5.5 feet to 12 feet bgs. Two confirmation sidewall soil samples were collected at a depth ranging between ground surface to 14 feet bgs. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

A total of approximately 252 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples (SS01 through SS05), collected around the release extent at ground surface, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest closure criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Laboratory analytical results for the vertical delineation soil samples collected from borehole BH01 and BH03, indicated TPH concentrations exceeded the Site Closure Criteria at depths ranging from surface level to 3 feet bgs, directly beneath the tear in the liner and 1-foot bgs in the on-pad spill area. Laboratory analytical results indicated TPH concentrations exceed the Site criteria in borehole BH02 at ground surface. Analytical results from pothole PH01 exceeded the Site criteria at 4 feet bgs.

Laboratory analytical results for the excavation floor soil samples (FS01 through FS03) collected at depths ranging from 5.5 feet to 12 feet bgs were all in compliance with the Site criteria and sidewall samples (SW01 and SW02), collected at depths ranging from ground surface to 14 feet bgs and were all in compliance with the Site Closure Criteria and with the strictest closure criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

## DEFERRAL REQUEST

WPX is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, which remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, is delineated vertically by borehole BH02, collected at a depth of 1-foot bgs and by confirmation soil sample FS01 collected at 11 feet bgs. The release area on-pad is laterally defined, by assessment soil samples (SS01 through SS05), collected at ground surface and vertically by confirmation soil sample FS03 at 5.5 feet bgs. A maximum of 792 cubic yards of TPH-impacted soil remains in place beneath the liner assuming a maximum depth of 11 feet near BH01 and 1-foot bgs near borehole BH02 (see figure 4). Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 200 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by WPX and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

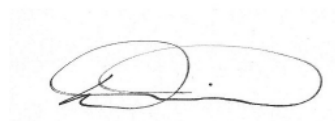
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, WPX requests deferral of final remediation for Incident Number nAPP2407827868 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix E.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Ashely Giovengo  
Senior Scientist



Daniel R. Moir, PG (licensed in WY & TX)  
Senior Managing Geologist

cc: Jim Raley, WPX  
Bureau of Land Management



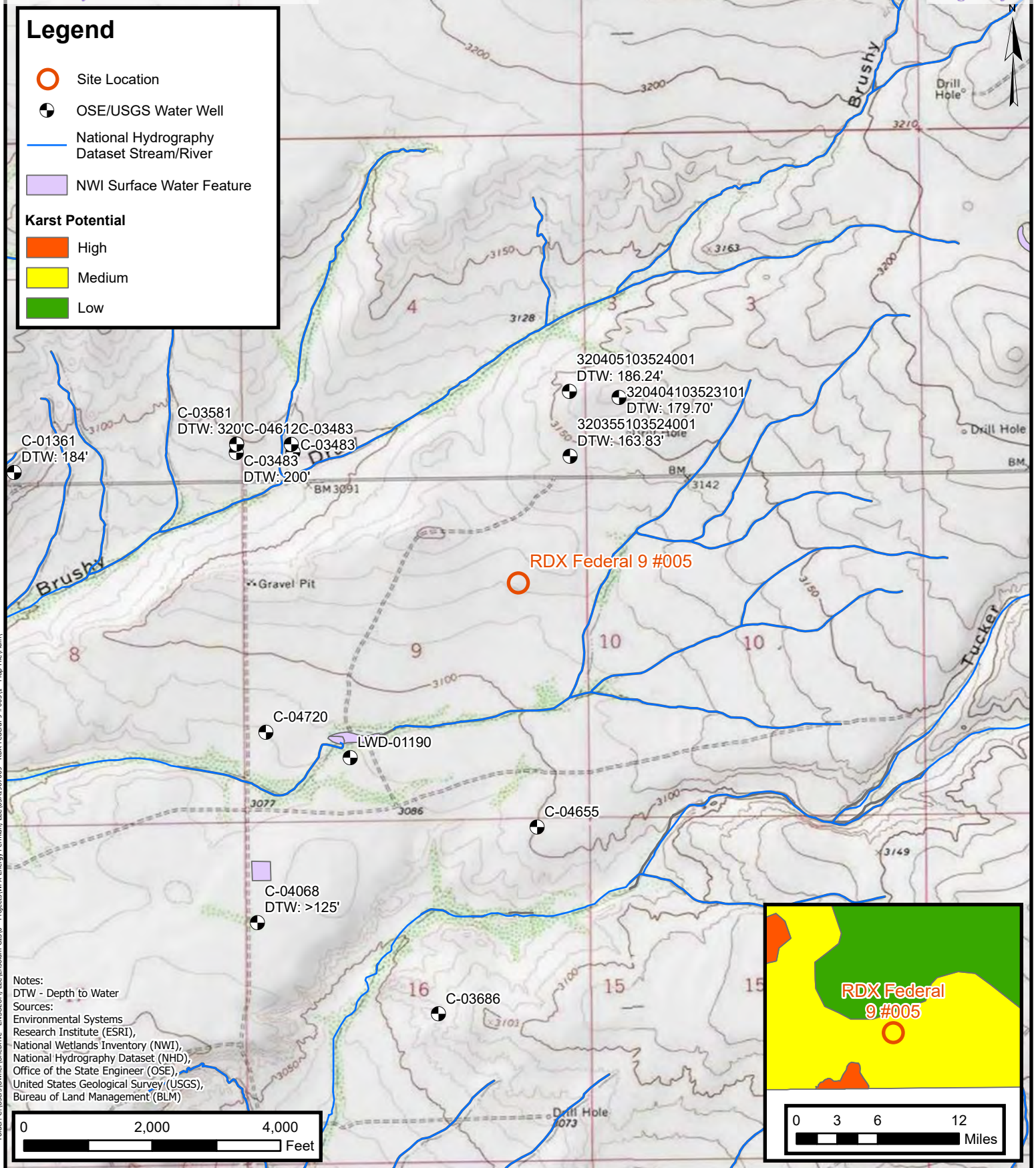
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithographic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence



FIGURES

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## Site Receptor Map

WPX Energy Permian, LLC  
RDX Federal 9 #005  
Incident Number: nAPP2407827868  
Unit H, Section 09, T 26S, R 30E  
Eddy County, New Mexico

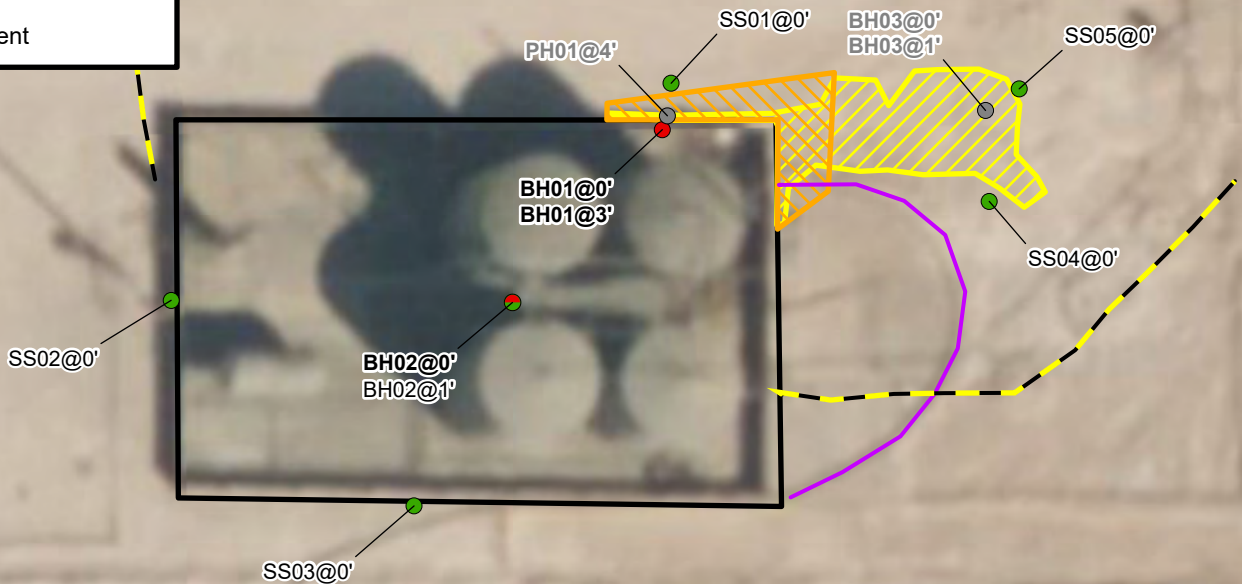
FIGURE

1



**Legend**

- Delineation Soil Sample in Compliance with Site Closure Criteria
- Delineation Soil Sample Formerly Non-Compliant with Site Closure Criteria
- Delineation Soil Sample Not Compliant with Site Closure Criteria
- Excavated Delineation Soil Sample
- Pipeline Location
- Polyline Location
- Stained Area
- Spill Area
- Containment



Notes:  
 Concentrations in **bold** exceed the NMOCD Table I  
 Closure Criteria or reclamation standard where applicable.  
 Grey text represents samples that have been excavated.

0 25 50  
 Feet

Sources:  
 Bing Maps



## Delineation Soil Sample Locations

WPX Energy Permian, LLC  
 RDX Federal 9 #005  
 Incident Number: nAPP2407827868  
 Unit H, Section 09, Township 26S, Range 30E  
 Eddy County, New Mexico

FIGURE  
 2

## Legend

- Confirmation Soil Sample in Compliance with Site Closure Criteria
- Sidewall Confirmation Soil Sample Compliant with Site Closure Criteria
- Pipeline Location
- Polyline Location
- Stained Area
- Excavation Area
- Containment



FS01@11'

SW01@0-14'

FS02@14'

FS03@5.5'

SW02@0-14'

Notes:  
 Sample ID @ Depth Below Ground Surface  
 Concentrations in **bold** exceed the NMOCD Table I  
 Closure Criteria or reclamation standard where applicable.

0 25 50  
 Feet

Sources:  
 Bing Maps



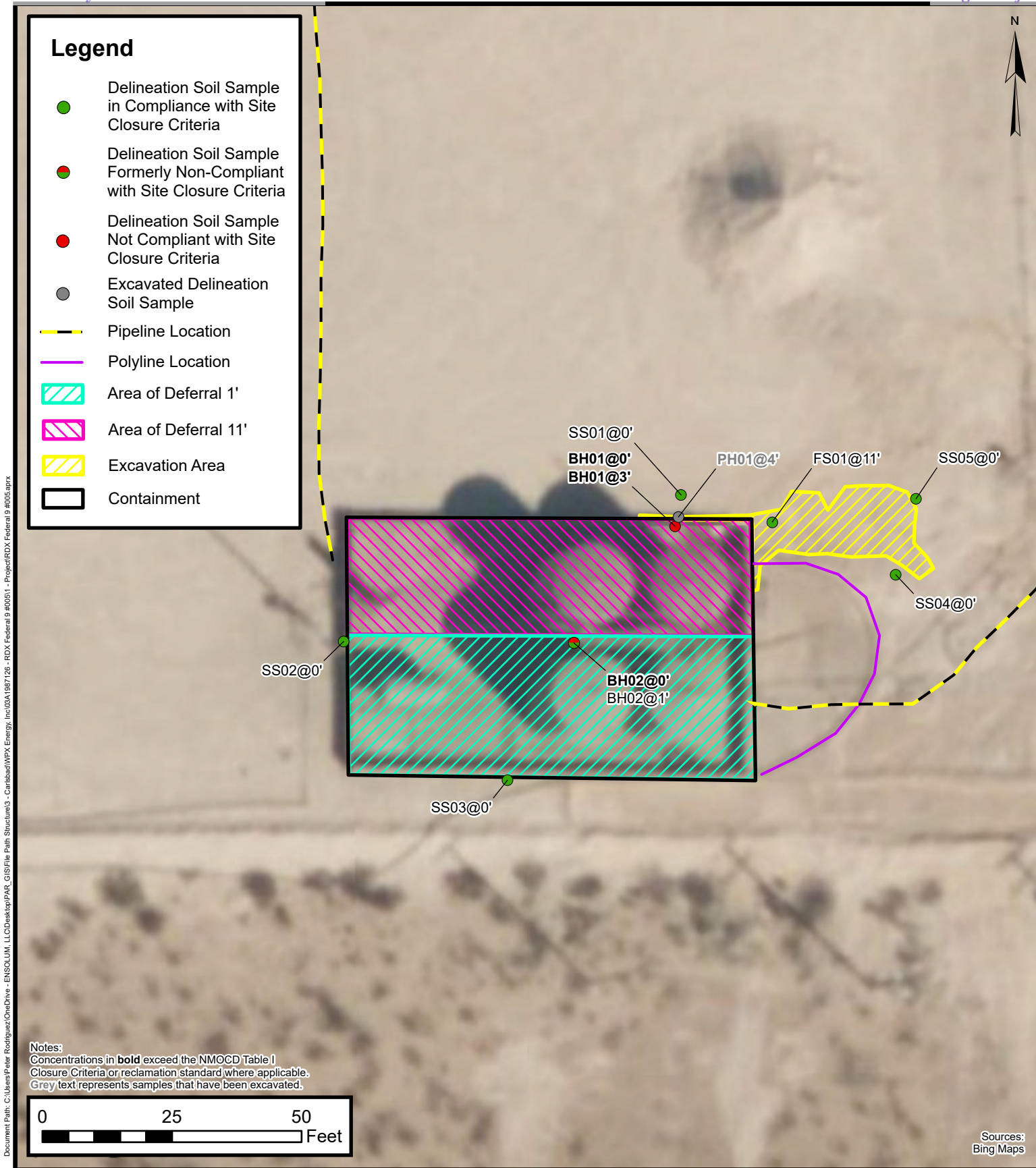
## Confirmation Soil Sample Locations

WPX Energy Permian, LLC  
 RDX Federal 9 #005  
 Incident Number: nAPP2407827868  
 Unit H, Section 09, Township 26S, Range 30E  
 Eddy County, New Mexico

FIGURE

3





## Deferral Area Map

WPX Energy Permian, LLC  
RDX Federal 9 #005  
Incident Number: nAPP2407827868  
Unit H, Section 09, Township 26S, Range 30E  
Eddy County, New Mexico

**FIGURE**  
**4**



TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 RDX Federal 9 #005  
 WPX Energy Permian, LLC  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	3/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	183
SS02	3/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100.0
SS03	3/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	154
SS04	3/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	282
SS05	3/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	315
BH01	4/2/2024	0	2.9121	13.9621	149	6,160	1,900	6,309	<b>8,209</b>	40.4
BH01	4/2/2024	3	5.378	26.558	316	7,770	2,570	8,086	<b>10,656</b>	191
BH02	4/2/2024	0	<0.0250	<0.0500	<20.0	123	60.3	123	<b>183.3</b>	28.5
BH02	4/2/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100.0
BH03	3/26/2024	0	<b>14.91</b>	<b>90.81</b>	868	30,000	10,200	30,868	<b>41,068</b>	<b>1,180</b>
BH03	3/26/2024	1	<b>&lt;0.0250</b>	<b>&lt;0.0500</b>	<20.0	136	58	136	<b>194</b>	<b>115</b>
PH01	5/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>962</b>

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 RDX Federal 9 #005  
 WPX Energy Permian, LLC  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	100	600
Excavation Floor Soil Samples										
FS01	6/3/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	401
FS02	6/3/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	380
FS03	5/29/2024	5.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	495
Sidewall Soil Samples										
SW01	6/3/2024	0-14	<0.0250	<0.0500	<20.0	38.9	<50.0	38.9	38.9	481
SW02	6/3/2024	0-14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	384

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



## APPENDIX A

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) <b>C-3483-POD1</b>				OSE FILE NUMBER(S) <b>C-3483</b>			
	WELL OWNER NAME(S) <b>Gregory Rockhouse Ranch Inc. &amp; BLM.</b>				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS <b>1108 W Pierce CARLSBAD, NM 88220</b>				CITY <b>CARLSBAD</b>		STATE <b>NM</b>	ZIP <b>88220</b>
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES <b>32</b>	MINUTES <b>03</b>	SECONDS <b>56.50</b>	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE	<b>103</b>	<b>53</b>	<b>42.20</b>	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS <b>0.5 miles east of EpNG well C-1361 Well Located on North Side of Pipeline Road, just east of oil/gas Pad</b>								
2. OPTIONAL	(2.5 ACRE) <b>NE 1/4</b>	(10 ACRE) <b>SE 1/4</b>	(40 ACRE) <b>SE 1/4</b>	(160 ACRE) <b>SE 1/4</b>	SECTION <b>05</b>	TOWNSHIP <b>26S</b>	RANGE <b>30</b>	<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH <input type="checkbox"/> EAST <input type="checkbox"/> WEST
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY					MAP NUMBER	TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER <b>WD-1509</b>		NAME OF LICENSED DRILLER <b>JOE ROYBAL &amp; RICHARD BEAUREGARD</b>			NAME OF WELL DRILLING COMPANY <b>BMS DRLLG</b>		
	DRILLING STARTED <b>06-03-11</b>		DRILLING ENDED <b>06-08-11</b>		DEPTH OF COMPLETED WELL (FT) <b>700'</b>	BORE HOLE DEPTH (FT) <b>700'</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>200'</b>	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>200</b>	
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: <b>TOP HEAD DRIVE</b>							
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	FROM	TO						
	<b>0</b>	<b>700</b>	<b>12"</b>	<b>PVC (SCH 40)</b>	<b>GLUED</b>	<b>8"</b>	<b>1/2"</b>	<b>3000</b>
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)			YIELD (GPM)	
	FROM	TO						
	<b>200</b>	<b>255</b>	<b>55</b>	<b>SAND STONE WITH FRACTURES</b>			<b>35</b>	
	<b>285</b>	<b>320</b>	<b>45</b>	<b>* SAND</b>				
	<b>320</b>	<b>360</b>	<b>40</b>	<b>SAME FORMATION FRACTURES</b>			<b>30</b>	
	<b>510</b>	<b>650</b>	<b>140</b>	<b>MIX GRAVEL GREEN CLAY - NOT MUCH WATER IN THIS FORMATION</b>				
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA <b>BAILER</b>						TOTAL ESTIMATED WELL YIELD (GPM) <b>50+</b>		

FOR OSE INTERNAL USE

FILE NUMBER **C-3483**

POD NUMBER **C-3483-POD1**

WELL RECORD & LOG (Version 6/9/08)

TRN NUMBER **476565**

LOCATION **26.30.5.4442423**

PAGE 1 OF 2

<b>5. SEAL AND PUMP</b>	TYPE OF PUMP: <input checked="" type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	700	12"	3/8 ROUND GRAVEL		SHOVEL

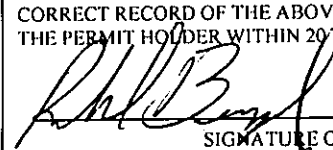
<b>6. GEOLOGIC LOG OF WELL</b>	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
		0	180'	180'	SAND + BROWN CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		180	200	20'	SAND STONE LAYER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		200	255	55'	HARD SAND STONE FRACTURES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		255	265	10'	GRAY CLAY SHALE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		265	275	10	SAND GRAVEL	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		275	285	10	GRAY CLAY WITH GRAVEL	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		285	320	35'	HARD SAND STONE FRACTURES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		320	360	40'	SAME FORMATION	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		360	445	85'	BROWN CLAY SHALE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		445	510	65'	SAME FORMATION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		510	650	40'	GRAVEL MIXED WITH CLAY (GREEN)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
		650	700	50'		<input type="checkbox"/> YES	<input type="checkbox"/> NO
					PERFS 180' TO 260'	<input type="checkbox"/> YES	<input type="checkbox"/> NO
				280 TO 360'	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
				500 TO 680'	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

<b>7. TEST &amp; ADDITIONAL INFO</b>	WELL TEST	METHOD: <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:	
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	
	ADDITIONAL STATEMENTS OR EXPLANATIONS:  <div style="font-size: large; font-family: cursive;">           Well Location: North side of Pipeline Road, 0.5 miles east of El Paso Natural Gas well C-1361.         </div>		

<b>8. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	<div style="font-size: large; font-family: cursive;">  </div> SIGNATURE OF DRILLER	<div style="font-size: large; font-family: cursive;">           7-14-11         </div> DATE

FOR USE INTERNAL USE ONLY  
STATE ENGINEER OFFICE  
ROSWELL, NEW MEXICO

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER **C-3483**

POD NUMBER **C-23483-P001**

TRN NUMBER **476565**

LOCATION **26-30-S4442423**

PAGE 2 OF 2



## APPENDIX B

### Photographic Log



## Photographic Log

WPX Energy Permian, LLC

RDX Federal 9 #005

nAPP2407827868



Photograph 1

Date: 03/17/2024

Description: Site Signage

View: South



Photograph 2

Date: 03/17/2024

Description: Spill Area

View: East



Photograph 3

Date: 03/17/2024

Description: Spill Area

View: North



Photograph 4

Date: 03/19/2024

Description: Spill Area

View: West





## Photographic Log

WPX Energy Permian, LLC

RDX Federal 9 #005

nAPP2407827868



Photograph 5

Date: 3/26/2024

Description: Liner inspection

View: Southwest



Photograph 6

Date: 03/26/2024

Description: Liner inspection

View: Southwest



Photograph 7

Date: 03/26/2024

Description: Delineation Sampling

View: Southwest



Photograph 8

Date: 03/17/2024

Description: Delineation Sampling

View: North



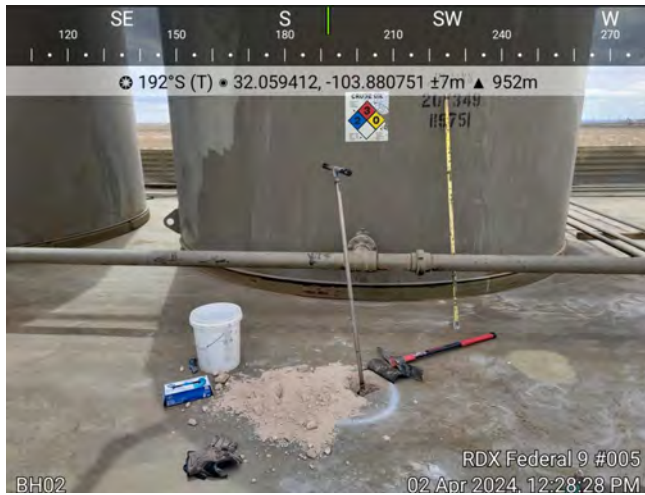


## Photographic Log

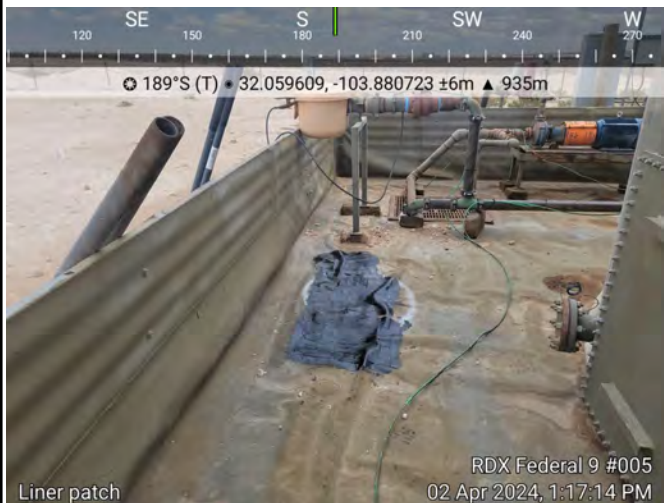
WPX Energy Permian, LLC

RDX Federal 9 #005

nAPP2407827868



Photograph 9  
Date: 04/02/2024  
Description: Delineation Sampling  
View: South



Photograph 10  
Date: 04/02/24  
Description: Liner Repair  
View: South



Photograph 11  
Date: 05/24/2024  
Description: Excavation Activities  
View: Southeast



Photograph 12  
Date: 05/28/2024  
Description: Excavation Activities  
View: East



## Photographic Log

WPX Energy Permian, LLC

RDX Federal 9 #005

nAPP2407827868



Photograph 13

Date: 05/28/2024

Description: Excavation Activities

View: East



Photograph 14

Date: 06/03/2024

Description: Excavation Activities

View: East



Photograph 15

Date: 06/03/2024

Description: Excavation Activities

View: East



Photograph 16

Date: 06/03/2024

Description: Excavation Activities

View: East







## APPENDIX C


### Lithologic Soil Sampling Logs


---

					Sample Name: BH01		Date: 04/02/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Site Name: RDX Federal 9 #005			
					Incident Number: nAPP2407827868			
					Job Number: 03A1987126			
Coordinates: 32.05959, -103.88067					Logged By: Cole Burton		Method: Hand Auger	
Comments: Field screening conducted by Mohr Method Titration and a PetroFLAG® Soil Analyzer System for chloride and total petroleum hydrocarbs (TPH), respectively.					Hole Diameter: 3"		Total Depth: 3'	
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH01	0	0	CCHE	Caliche - Staining, Odor
M			Y	BH01	1	1	CCHE	Caliche - Staining, Odor
M			Y	BH01	2	2	CCHE	Caliche - Staining, Odor
D	200	>1,000	N	BH01	3	3	CCHE	Indurated Caliche
Total Depth = 3 ft bgs								

										Sample Name: BH02		Date: 04/02/2024					
										Site Name: RDX Federal 9 #005							
										Incident Number: nAPP2407827868							
										Job Number: 03A1987126							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>										Logged By: Cole Burton		Method: Hand Auger					
Coordinates: 32.05952, -103.88074										Hole Diameter: 3"		Total Depth: 1'					
Comments: Field screening conducted by Mohr Method Titration and a PetroFLAG® Soil Analyzer System for chloride and total petroleum hydrocarbs (TPH), respectively.																	
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions									
M			Y	BH01	0	0	CCHE	Caliche - Staining, Odor									
D	100	25	Y	BH01	1	1	CCHE	Caliche - No Staining, No Odor									
Total Depth = 1ft bgs																	



		Sample Name: BH03		Date: 03/26/2024				
		Site Name: RDX Federal 9 #005						
		Incident Number: nAPP2407827868						
		Job Number: 03A1987126						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Cole Burton		Method: Shovel		
Coordinates: 32.05960, -103.88054				Hole Diameter: 3"		Total Depth: 1.5'		
Comments: Field screening conducted by Mohr Method Titration and a PetroFLAG® Soil Analyzer System for chloride and total petroleum hydrocarbs (TPH), respectively.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH03	0	0	CCHE	Caliche - Staining, Odor
M			N	BH03	1	1	CCHE	Caliche - No staining
D		>1250	N	BH03	1.5	1.5	CCHE	Indurated Caliche
Total Depth = 1.5 ft bgs								

 <b>ENSOLUM</b>								Sample Name: PH01		Date: 05/24/2024	
								Site Name: RDX Federal 9 #005			
								Incident Number: nAPP2407827868			
								Job Number: 03A1987126			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Isreal Estrella		Method: Backhoe	
Coordinates: 32.05959, -103.88067								Hole Diameter: 1.5'		Total Depth: 4'	
Comments: Field screening conducted by Mohr Method Titration and a PetroFLAG® Soil Analyzer System for chloride and total petroleum hydrocarbs (TPH), respectively.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
					0	0					
					1	1					
					2	2					
					3	3					
D	ND			PH01	4	4	SP-SM	Sand/silt - Brown/redish			
Total Depth = 4 ft bgs											



## APPENDIX D

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

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Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E403258

Job Number: 01058-0007

Received: 3/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/3/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/3/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX Federal 9 #005  
Workorder: E403258  
Date Received: 3/28/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2024 5:30:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/03/24 10:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403258-01A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
SS02 -0'	E403258-02A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
SS03 -0'	E403258-03A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
SS04 -0'	E403258-04A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
SS05 -0'	E403258-05A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH03 -0'	E403258-06A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH03 -1'	E403258-07A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
---	--	----------------------------------

SS01 -0'

E403258-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Benzene	ND	0.0250	1	03/28/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/30/24	
Toluene	ND	0.0250	1	03/28/24	03/30/24	
o-Xylene	ND	0.0250	1	03/28/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/30/24	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	96.2 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	183	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
---	--	----------------------------------

SS02 -0'

E403258-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Benzene	ND	0.0250	1	03/28/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/30/24	
Toluene	ND	0.0250	1	03/28/24	03/30/24	
o-Xylene	ND	0.0250	1	03/28/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413112
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2413098
Chloride	ND	100	5	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
---	--	----------------------------------

SS03 -0'

E403258-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Benzene	ND	0.0250	1	03/28/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/30/24	
Toluene	ND	0.0250	1	03/28/24	03/30/24	
o-Xylene	ND	0.0250	1	03/28/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413112
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2413098
Chloride	154	100	5	03/28/24	03/28/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
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SS04 -0'

E403258-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Benzene	ND	0.0250	1	03/28/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/30/24	
Toluene	ND	0.0250	1	03/28/24	03/30/24	
o-Xylene	ND	0.0250	1	03/28/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/30/24	
Surrogate: 4-Bromochlorobenzene-PID	94.9 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	92.1 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	282	200	10	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
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SS05 -0'

E403258-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Benzene	ND	0.0250	1	03/28/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/30/24	
Toluene	ND	0.0250	1	03/28/24	03/30/24	
o-Xylene	ND	0.0250	1	03/28/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	315	100	5	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
---	--	----------------------------------

BH03 -0'

E403258-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Benzene	2.51	0.125	5	03/28/24	03/30/24	
Ethylbenzene	12.4	0.125	5	03/28/24	03/30/24	
Toluene	24.5	0.125	5	03/28/24	03/30/24	
o-Xylene	15.6	0.125	5	03/28/24	03/30/24	
p,m-Xylene	35.8	0.250	5	03/28/24	03/30/24	
Total Xylenes	51.4	0.125	5	03/28/24	03/30/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2413094	
Gasoline Range Organics (C6-C10)	868	100	5	03/28/24	03/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		03/28/24	03/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	30000	1250	50	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	10200	2500	50	03/29/24	04/01/24	
Surrogate: n-Nonane	514 %	50-200		03/29/24	04/01/24	S5
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	1180	200	10	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:52:42AM
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BH03 -1'

E403258-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Benzene	ND	0.0250	1	03/28/24	04/01/24	
Ethylbenzene	ND	0.0250	1	03/28/24	04/01/24	
Toluene	ND	0.0250	1	03/28/24	04/01/24	
o-Xylene	ND	0.0250	1	03/28/24	04/01/24	
p,m-Xylene	ND	0.0500	1	03/28/24	04/01/24	
Total Xylenes	ND	0.0250	1	03/28/24	04/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		03/28/24	04/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413094
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	04/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		03/28/24	04/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413112
Diesel Range Organics (C10-C28)	136	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	58.1	50.0	1	03/29/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	96.0 %	50-200		03/29/24	04/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2413098
Chloride	115	20.0	1	03/28/24	03/28/24	





QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:52:42AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413094-BLK1)Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

LCS (2413094-BS1)Prepared: 03/28/24 Analyzed: 03/30/24

Benzene	4.99	0.0250	5.00		99.9	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2413094-MS1)Source: E403261-03Prepared: 03/28/24 Analyzed: 03/30/24

Benzene	4.95	0.0250	5.00	ND	99.1	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133			
Toluene	4.97	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2413094-MSD1)Source: E403261-03Prepared: 03/28/24 Analyzed: 03/30/24

Benzene	5.13	0.0250	5.00	ND	103	54-133	3.49	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	3.43	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	3.43	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	3.32	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	3.50	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	3.44	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:52:42AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413094-BLK1) Prepared: 03/28/24 Analyzed: 03/29/24

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

LCS (2413094-BS2) Prepared: 03/28/24 Analyzed: 03/30/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike (2413094-MS2) Source: E403261-03 Prepared: 03/28/24 Analyzed: 03/30/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2413094-MSD2) Source: E403261-03 Prepared: 03/28/24 Analyzed: 03/30/24

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	0.284	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:52:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413112-BLK1)					Prepared: 03/29/24 Analyzed: 04/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

LCS (2413112-BS1)					Prepared: 03/29/24 Analyzed: 04/01/24				
Diesel Range Organics (C10-C28)	317	25.0	250		127	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2413112-MS1)					Source: E403258-04		Prepared: 03/29/24 Analyzed: 04/01/24		
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

Matrix Spike Dup (2413112-MSD1)					Source: E403258-04		Prepared: 03/29/24 Analyzed: 04/01/24		
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132	3.08	20	
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:52:42AM

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 (2413098-BLK1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	ND	20.0							
LCS (2413098-BS1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2413098-MS1)					Source: E403257-04		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	1910	20.0	250	1780	53.5	80-120			M4
Matrix Spike Dup (2413098-MSD1)					Source: E403257-04		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	3240	20.0	250	1780	583	80-120	51.4	20	M4, R3

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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/03/24 10:52

- 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.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Devon					<b>Bill To</b> Attention: Jim Raley Address: 5315 Buena Vista Dr City, State, Zip: Carlsbad NM, 88220 Phone: (575)689-7597 Email: jim.raley@dvn.com		<b>Lab Use Only</b>						<b>TAT</b>				<b>EPA Program</b>					
Project: RDX Federal 9 #005							Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo							E403258					01058-0007								x		
Address: 3122 National Parks Hwy							<b>Analysis and Method</b>												RCRA			
City, State, Zip: Carlsbad NM, 88220																						
Phone: 575-988-0055					TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State									
Email: agiovengo@ensolum.com													NM	CO	UT	AZ	TX					
Report due by:													x									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																
10:23	3/26/2024	Soil	1	SS01 - 0'	1																	
11:00	3/26/2024	Soil	1	SS02 - 0'	2																	
11:02	3/26/2024	Soil	1	SS03 - 0'	3																	
10:27	3/26/2024	Soil	1	SS04 - 0'	4																	
11:26	3/26/2024	Soil	1	SS05 - 0'	5																	
12:15	3/26/2024	Soil	1	BH03 - 0'	6																	
12:33	3/26/2024	Soil	1	BH03 - 1'	7																	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com, ehaff@ensolum.com, iestrella@ensolum.com																						
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]		3-27-24	7:30	[Signature]		3-27-24	1040	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]		3-27-24	1500	[Signature]		3-27-24	1815															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C														
[Signature]		3-27-24	2400	[Signature]		3-28-24	0530	4														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



## Envirotech Analytical Laboratory

Printed: 3/28/2024 9:26:39AM

## 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: Devon Energy - Carlsbad  
Phone: (505) 382-1211  
Email: ashley.giovengo@wescominc.com

Date Received: 03/28/24 05:30  
Date Logged In: 03/27/24 16:09  
Due Date: 04/03/24 17:00 (4 day TAT)

Work Order ID: E403258  
Logged In By: Angelina Pineda

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E404022

Job Number: 01058-0007

Received: 4/4/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/10/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 4/10/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX Federal 9 #005  
Workorder: E404022  
Date Received: 4/4/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/4/2024 7:00:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/10/24 14:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E404022-01A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
BH01 -3'	E404022-02A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
BH02 -0'	E404022-03A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
BH02 -1'	E404022-04A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/10/2024 2:19:34PM
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BH01 -0'

E404022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Benzene	0.0821	0.0500	2	04/04/24	04/08/24	
Ethylbenzene	2.83	0.0500	2	04/04/24	04/08/24	
Toluene	2.27	0.0500	2	04/04/24	04/08/24	
o-Xylene	4.55	0.0500	2	04/04/24	04/08/24	
p,m-Xylene	4.23	0.100	2	04/04/24	04/08/24	
Total Xylenes	8.78	0.0500	2	04/04/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		04/04/24	04/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Gasoline Range Organics (C6-C10)	149	40.0	2	04/04/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		04/04/24	04/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2414069	
Diesel Range Organics (C10-C28)	6160	500	20	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	1900	1000	20	04/05/24	04/08/24	
Surrogate: n-Nonane	176 %	50-200		04/05/24	04/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2414060	
Chloride	40.4	20.0	1	04/04/24	04/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/10/2024 2:19:34PM
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BH01 -3'

E404022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Benzene	0.918	0.0250	1	04/04/24	04/05/24	
Ethylbenzene	4.46	0.0250	1	04/04/24	04/05/24	
Toluene	8.28	0.0250	1	04/04/24	04/05/24	
o-Xylene	7.82	0.0250	1	04/04/24	04/05/24	
p,m-Xylene	5.04	0.0500	1	04/04/24	04/05/24	
Total Xylenes	12.9	0.0250	1	04/04/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	04/04/24	04/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Gasoline Range Organics (C6-C10)	316	20.0	1	04/04/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		126 %	70-130	04/04/24	04/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2414069	
Diesel Range Organics (C10-C28)	7770	500	20	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	2570	1000	20	04/05/24	04/08/24	
Surrogate: n-Nonane		263 %	50-200	04/05/24	04/08/24	S6
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2414060	
Chloride	191	20.0	1	04/04/24	04/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/10/2024 2:19:34PM
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BH02 -0'

E404022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2414050	
Benzene	ND	0.0250	1	04/04/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/08/24	
Toluene	ND	0.0250	1	04/04/24	04/08/24	
o-Xylene	ND	0.0250	1	04/04/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		04/04/24	04/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2414050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		04/04/24	04/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2414069	
Diesel Range Organics (C10-C28)	123	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	60.3	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane	80.7 %	50-200		04/05/24	04/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2414060	
Chloride	28.5	20.0	1	04/04/24	04/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/10/2024 2:19:34PM
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BH02 -1'

E404022-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Benzene	ND	0.0250	1	04/04/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/05/24	
Toluene	ND	0.0250	1	04/04/24	04/05/24	
o-Xylene	ND	0.0250	1	04/04/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID	99.9 %	70-130		04/04/24	04/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2414050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		04/04/24	04/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2414069	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane	82.6 %	50-200		04/05/24	04/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2414060	
Chloride	ND	100	5	04/04/24	04/04/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/10/2024 2:19:34PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2414050-BLK1) Prepared: 04/04/24 Analyzed: 04/05/24

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	7.67		8.00		95.8	70-130			

LCS (2414050-BS1) Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	5.33	0.0250	5.00		107	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.26	0.0250	5.00		105	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			

Matrix Spike (2414050-MS1) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.1	61-133			
Toluene	5.00	0.0250	5.00	ND	100	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131			
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike Dup (2414050-MSD1) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	0.162	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	0.508	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	0.319	20	
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131	0.602	20	
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131	0.530	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	0.554	20	
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/10/2024 2:19:34PM

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 (2414050-BLK1) Prepared: 04/04/24 Analyzed: 04/05/24

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

LCS (2414050-BS2) Prepared: 04/04/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

Matrix Spike (2414050-MS2) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	35.3	20.0	50.0	ND	70.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2414050-MSD2) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	36.9	20.0	50.0	ND	73.9	70-130	4.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/10/2024 2:19:34PM

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 (2414069-BLK1)					Prepared: 04/05/24 Analyzed: 04/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

LCS (2414069-BS1)					Prepared: 04/05/24 Analyzed: 04/08/24				
Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

Matrix Spike (2414069-MS1)					Source: E404022-04		Prepared: 04/05/24 Analyzed: 04/08/24		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			

Matrix Spike Dup (2414069-MSD1)					Source: E404022-04		Prepared: 04/05/24 Analyzed: 04/08/24		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	3.45	20	
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/10/2024 2:19:34PM

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 (2414060-BLK1)					Prepared: 04/04/24 Analyzed: 04/04/24				
Chloride	ND	20.0							
LCS (2414060-BS1)					Prepared: 04/04/24 Analyzed: 04/04/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2414060-MS1)					Source: E404022-02		Prepared: 04/04/24 Analyzed: 04/04/24		
Chloride	441	20.0	250	191	99.6	80-120			
Matrix Spike Dup (2414060-MSD1)					Source: E404022-02		Prepared: 04/04/24 Analyzed: 04/04/24		
Chloride	425	20.0	250	191	93.5	80-120	3.53	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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/10/24 14:19

- S6 Surrogate was diluted out due to high concentrations of target and/or non-target analytes and does not provide useful information. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com									
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: Cole Burton									
Relinquished by: (Signature) <i>Cole Burton</i>	Date 4/3/24	Time 7:30	Received by: (Signature) <i>Michelle Cough</i>	Date 4-3-24	Time 0730	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature) <i>Michelle Cough</i>	Date 4-3-24	Time 1552	Received by: (Signature) <i>Andrew Mello</i>	Date 4-3-24	Time 1700	T1 _____ T2 _____ T3 _____			
Relinquished by: (Signature) <i>Andrew Mello</i>	Date 4-3-24	Time 2400	Received by: (Signature) <i>SE</i>	Date 4/4/24	Time 0700	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 Analytical Laboratory

Printed: 4/4/2024 9:35:50AM

## 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: Devon Energy - Carlsbad  
 Phone: (505) 382-1211  
 Email: ashley.giovengo@wescominc.com

Date Received: 04/04/24 07:00  
 Date Logged In: 04/03/24 16:50  
 Due Date: 04/10/24 17:00 (4 day TAT)

Work Order ID: E404022  
 Logged In By: Alexa Michaels

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: RDX Federal 9 #005

Work Order: E405376

Job Number: 23003-0002

Received: 5/29/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/12/24

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: 6/12/24

Ashley Giovengo  
5400 LBJ Freeway, Suite 1500  
Dallas, TX 75240



Project Name: RDX Federal 9 #005  
Workorder: E405376  
Date Received: 5/29/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/29/2024 8:00:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[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

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/24 09:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 4'	E405376-01A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: RDX Federal 9 #005 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 9:40:53AM
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PH01 - 4'

E405376-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2422106	
Benzene	ND	0.0250	1	05/31/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/04/24	
Toluene	ND	0.0250	1	05/31/24	06/04/24	
o-Xylene	ND	0.0250	1	05/31/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		05/31/24	06/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2422106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		05/31/24	06/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2423048	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane	100 %	50-200		06/04/24	06/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2423024	
Chloride	962	40.0	2	06/03/24	06/04/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 9:40:53AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422106-BLK1) Prepared: 05/31/24 Analyzed: 06/03/24

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	7.40		8.00		92.5	70-130			

LCS (2422106-BS1) Prepared: 05/31/24 Analyzed: 06/03/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.40	0.0250	5.00		88.0	70-130			
Toluene	4.48	0.0250	5.00		89.5	70-130			
o-Xylene	4.38	0.0250	5.00		87.7	70-130			
p,m-Xylene	8.96	0.0500	10.0		89.6	70-130			
Total Xylenes	13.3	0.0250	15.0		88.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

LCS Dup (2422106-BSD1) Prepared: 05/31/24 Analyzed: 06/03/24

Benzene	4.75	0.0250	5.00		95.0	70-130	4.31	20	
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130	4.39	20	
Toluene	4.67	0.0250	5.00		93.5	70-130	4.30	20	
o-Xylene	4.58	0.0250	5.00		91.7	70-130	4.43	20	
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130	4.12	20	
Total Xylenes	13.9	0.0250	15.0		92.8	70-130	4.23	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 9:40:53AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422106-BLK1) Prepared: 05/31/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

LCS (2422106-BS2) Prepared: 05/31/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.7	70-130			

LCS Dup (2422106-BSD2) Prepared: 05/31/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130	5.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 9:40:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423048-BLK1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS (2423048-BS1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	308	25.0	250		123	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

LCS Dup (2423048-BSD1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.194	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 9:40:53AM

Anions by EPA 300.0/9056A

Analyst: WF

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 (2423024-BLK1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	ND	20.0							
LCS (2423024-BS1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	239	20.0	250		95.4	90-110			
LCS Dup (2423024-BSD1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	251	20.0	250		100	90-110	4.99	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	RDX Federal 9 #005	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/24 09:40

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



## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 5/29/2024 1:04:19PM

## 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:	Matador Resources, LLC.	Date Received:	05/29/24 08:00	Work Order ID:	E405376
Phone:	(972) 371-5200	Date Logged In:	05/29/24 11:55	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	06/07/24 17:00 (7 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.



## Chain of Custody

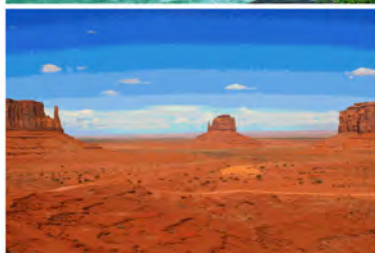
[illegible]

**envirotech**



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E405396

Job Number: 01058-0007

Received: 5/31/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/7/24

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: 6/7/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX Federal 9 #005  
Workorder: E405396  
Date Received: 5/31/2024 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/31/2024 8:15:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/07/24 14:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 - 5.5'	E405396-01A	Soil	05/29/24	05/31/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:59:01PM
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FS03 - 5.5'

E405396-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2422112	
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		05/31/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2422112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		05/31/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2423031	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane	106 %	50-200		06/04/24	06/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2423028	
Chloride	495	200	10	06/03/24	06/03/24	





QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/7/2024 2:59:01PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2422112-BLK1)

Prepared: 05/31/24 Analyzed: 06/06/24

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	7.37		8.00		92.1	70-130			

LCS (2422112-BS1)

Prepared: 05/31/24 Analyzed: 06/06/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.6	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	4.86	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.82	0.0500	10.0		98.2	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			

LCS Dup (2422112-BS1)

Prepared: 05/31/24 Analyzed: 06/06/24

Benzene	5.09	0.0250	5.00		102	70-130	0.280	20	
Ethylbenzene	4.81	0.0250	5.00		96.1	70-130	0.574	20	
Toluene	5.02	0.0250	5.00		100	70-130	0.413	20	
o-Xylene	4.89	0.0250	5.00		97.8	70-130	0.569	20	
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130	0.570	20	
Total Xylenes	14.8	0.0250	15.0		98.4	70-130	0.570	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/7/2024 2:59:01PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2422112-BLK1) Prepared: 05/31/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

LCS (2422112-BS2) Prepared: 05/31/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130			

LCS Dup (2422112-BSD2) Prepared: 05/31/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130	2.16	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/7/2024 2:59:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423031-BLK1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2423031-BS1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	259	25.0	250		103	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS Dup (2423031-BSD1)					Prepared: 06/04/24 Analyzed: 06/06/24				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132	0.575	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/7/2024 2:59:01PM

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 (2423028-BLK1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	ND	20.0							
LCS (2423028-BS1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2423028-BSD1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	255	20.0	250		102	90-110	0.176	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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/07/24 14:59

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





## Envirotech Analytical Laboratory

Printed: 5/31/2024 8:57:34AM

## 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:	Devon Energy - Carlsbad	Date Received:	05/31/24 08:15	Work Order ID:	E405396
Phone:	(505) 382-1211	Date Logged In:	05/31/24 08:54	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	06/07/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E406026

Job Number: 01058-0007

Received: 6/5/2024

Revision: 3

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/14/24

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: 6/14/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX Federal 9 #005  
Workorder: E406026  
Date Received: 6/5/2024 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/5/2024 12:00:00PM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/14/24 09:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 11'	E406026-01A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS02 - 14'	E406026-02A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
SW01 - 0-14'	E406026-03A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
SW02 - 0-14'	E406026-04A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/14/2024 9:32:08AM

FS01 - 11'

E406026-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	92.0 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.4 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
Surrogate: n-Nonane	116 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	401	100	5	06/05/24	06/06/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/14/2024 9:32:08AM
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FS02 - 14'

E406026-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423063
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423063
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423069
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/05/24	06/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423074
Chloride	380	100	5	06/05/24	06/06/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/14/2024 9:32:08AM
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SW01 - 0-14'  
E406026-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423063
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423063
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423069
Diesel Range Organics (C10-C28)	38.9	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/05/24	06/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423074
Chloride	481	200	10	06/05/24	06/06/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 9 #005 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/14/2024 9:32:08AM
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SW02 - 0-14'  
E406026-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.9 %	70-130		06/05/24	06/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/05/24	06/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	384	100	5	06/05/24	06/06/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/14/2024 9:32:08AM

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2423063-BLK1) Prepared: 06/05/24 Analyzed: 06/06/24

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	7.50		8.00		93.8	70-130			

LCS (2423063-BS1) Prepared: 06/05/24 Analyzed: 06/06/24

Benzene	4.83	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.7	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

LCS Dup (2423063-BSD1) Prepared: 06/05/24 Analyzed: 06/06/24

Benzene	4.74	0.0250	5.00		94.8	70-130	2.00	20	
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130	1.97	20	
Toluene	4.68	0.0250	5.00		93.7	70-130	1.86	20	
o-Xylene	4.59	0.0250	5.00		91.7	70-130	1.82	20	
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130	1.89	20	
Total Xylenes	13.9	0.0250	15.0		92.9	70-130	1.86	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/14/2024 9:32:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2423063-BLK1) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

LCS (2423063-BS2) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		98.9	70-130			

LCS Dup (2423063-BSD2) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130	3.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/14/2024 9:32:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423069-BLK1)					Prepared: 06/05/24 Analyzed: 06/07/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS (2423069-BS1)					Prepared: 06/05/24 Analyzed: 06/07/24				
Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS Dup (2423069-BSD1)					Prepared: 06/05/24 Analyzed: 06/07/24				
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.534	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/14/2024 9:32:08AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2423074-BLK1)					Prepared: 06/05/24 Analyzed: 06/06/24				
Chloride	ND	20.0							
LCS (2423074-BS1)					Prepared: 06/05/24 Analyzed: 06/06/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2423074-MS1)					Source: E406022-03		Prepared: 06/05/24 Analyzed: 06/06/24		
Chloride	246	200	250	ND	98.4	80-120			
Matrix Spike Dup (2423074-MSD1)					Source: E406022-03		Prepared: 06/05/24 Analyzed: 06/06/24		
Chloride	243	200	250	ND	97.2	80-120	1.28	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

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/14/24 09:32

- 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.



Report due by: <b>Devon Energy</b>				Bill To				Lab Use Only				TAT				EPA Program				
Project: RDX Federal #005				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovento				Address: 5315 Buena Vista Dr				E401626		01058-0007					x					
Address: 3122 National Parks Hwy				City, State, Zip: Carlsbad NM, 88220				Analysis and Method										RCRA		
City, State, Zip: Carlsbad NM, 88220				Phone: (575)689-7597				TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	GDOC TX	State				
Phone: 575-988-0055				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: agiovento@ensolum.com																				
Report due by:																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks			
10:05	6/3/2024	Soil	1	FS01 - 11'	1										x					
15:14	6/3/2024	Soil	1	FS02 - 12'	2										x					
15:48	6/3/2024	Soil	1	SW01 - 2-14'	3										x					
15:51	6/3/2024	Soil	1	SW02 - 2-14'	4										x					
Additional Instructions: Please CC: cburton@ensolum.com, agiovento@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com																				
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: Israel Estrella																				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only														
	6/4/24	10:11	Michelle Gonzales	6-4-24	10/11	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____														
Michelle Gonzales	6-4-24	1600		6-4-24	1645															
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4														
	6-4-24	1245		6/5/24	1200															
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: 6/6/2024 4:42:23PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	06/05/24 12:00	Work Order ID:	E406026
Phone:	(505) 382-1211	Date Logged In:	06/04/24 18:03	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	06/12/24 17:00 (5 day TAT)		

**Chain of Custody (COC)**

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

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.





**envirotech**





## APPENDIX E

### Email Correspondence

---

**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  
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**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 325369

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 325369
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2407827868
Incident Name	NAPP2407827868 RDX FEDERAL 9 #005 @ 30-015-41630
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41630] RDX FEDERAL 9 #005

Location of Release Source	
Site Name	RDX FEDERAL 9 #005
Date Release Discovered	03/17/2024
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	3,900
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/26/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.0599861,-103.8809204

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CONDITIONS  
  
Action 325369

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 325369
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	3/21/2024



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Santa Fe, NM 87505

QUESTIONS  
  
Action 347665

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 347665
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2407827868
Incident Name	NAPP2407827868 RDX FEDERAL 9 #005 @ 30-015-41630
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41630] RDX FEDERAL 9 #005

Location of Release Source	
Site Name	RDX FEDERAL 9 #005
Date Release Discovered	03/17/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	530
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/29/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Cole Burton 575-706-5056
Please provide any information necessary for navigation to sampling site	Location at 32.0599861, -103.8809204

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CONDITIONS  
  
Action 347665

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 347665
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/24/2024

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QUESTIONS  
  
Action 349525

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 349525
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2407827868
Incident Name	NAPP2407827868 RDX FEDERAL 9 #005 @ 30-015-41630
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41630] RDX FEDERAL 9 #005

Location of Release Source	
Site Name	RDX FEDERAL 9 #005
Date Release Discovered	03/17/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	530
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Cole Burton 575-706-5056
Please provide any information necessary for navigation to sampling site	H-09-26S-30E (32.0599861,-103.8809204)

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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 349525

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 349525
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/30/2024

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QUESTIONS  
  
Action 355188

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355188
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2407827868
Incident Name	NAPP2407827868 RDX FEDERAL 9 #005 @ 30-015-41630
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-41630] RDX FEDERAL 9 #005

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX FEDERAL 9 #005
Date Release Discovered	03/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Power Failure   Production Tank   Crude Oil   Released: 96 BBL   Recovered: 95 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 355188

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	355188
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 06/17/2024
--	--

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QUESTIONS, Page 3

Action 355188

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	355188
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<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 1000 (ft.) and ½ (mi.)
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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride	(EPA 300.0 or SM4500 Cl B)	1180
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	10656
GRO+DRO	(EPA SW-846 Method 8015M)	8086
BTEX	(EPA SW-846 Method 8021B or 8260B)	26.5
Benzene	(EPA SW-846 Method 8021B or 8260B)	5.3

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	05/29/2024
On what date will (or did) the final sampling or liner inspection occur	06/03/2024
On what date will (or was) the remediation complete(d)	06/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	3886.6
What is the estimated volume (in cubic yards) that will be reclaimed	792
What is the estimated surface area (in square feet) that will be remediated	407
What is the estimated volume (in cubic yards) that will be remediated	252

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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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 355188

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	355188
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 06/17/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 355188

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	355188
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Production tanks and steel containment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3886.6
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	792
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-41630 RDX FEDERAL 9 #005
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 06/17/2024

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

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

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**QUESTIONS (continued)**

Operator:  WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:  246289
	Action Number:  355188
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	349525
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	530

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 355188

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355188
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH01/PH01 and BH02 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	7/1/2024