



December 18, 2023

**New Mexico Energy Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request**  
**RDX 15 East Production Pad**  
**Incident Number nAPP2323030159**  
**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, delineation, excavation, and soil sampling activities at the RDX 15 East Production Pad (Site) in Unit I, Section 15, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release of crude oil and produced water at the Site. Based on field observations and soil sample laboratory analytical results, WPX is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2323030159 until the Site is reconstructed and/or the well pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Eddy County, New Mexico (32.0416679°, -103.8637238°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 16, 2023, the manway gasket on a heater treater failed and sent approximately 16 barrels (bbls) of produced water and 1 bbl of crude oil into the earthen secondary containment and onto the pad surface. A total of 10 bbls of produced water were recovered from the Site upon discovery of the release. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 18, 2023. The release was assigned Incident Number nAPP2323030159.

## **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 for the release, see Appendix A. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4655 Pod 1, located approximately 0.91 miles northwest of the Site.

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The well had a reported depth to groundwater greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 0.18 miles south 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES

On August 18 and August 23, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five preliminary assessment soil samples (SS01 through SS05) were collected from ground surface to assess the lateral extent of the release. The preliminary soil samples were field screened for TPH using a PetroFLAG® soil analyzer system and chloride using the Mohr method titration. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during the Site visit and a photographic log is included as Appendix C.

All 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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil assessment samples SS01 through SS05, collected at ground surface, indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I.

## DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on August 23, 2023, Ensolum personnel were onsite to complete vertical delineation sampling on the caliche pad and inside the earthen secondary containment. Two potholes (PH01 and PH02) were advanced via backhoe within the on-pad release extent to assess for the presence or absence of impacts

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to soil. Delineation soil samples were collected from each pothole at depths ranging from ground surface to 2 feet bgs. A single borehole (BH01) was advanced via hand auger to a depth of 9 feet bgs to establish the vertical extent inside the earthen secondary containment. Delineation soil samples were collected from the borehole at depths ranging from ground surface to 9 feet bgs. Soil from the potholes PH01 and PH02 and borehole BH01 were field screened for TPH and chloride in the same manner previously described above. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix D. The delineation soil sample locations are depicted on Figure 2.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples collected from potholes PH01 and PH02 indicated chloride and TPH concentrations exceeded the Site Closure Criteria at ground surface but were in compliance at 1-foot and 2 feet bgs, respectively for both the Closure Criteria and reclamation requirement. Analytical results for BH01 indicated TPH and chloride concentrations exceeded the Site Closure Criteria and the reclamation requirement at ground surface, but in compliance with the strictest Closure Criteria per NMOCD Table I at 8 feet and 9 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

On November 3, 2023, excavation of the impacted soil areas was completed using a backhoe and transport vehicles. Excavation of impacted soil within the earthen berm area was not possible due to the presence of active production equipment and associated flow lines. To direct excavation activities, soil was screened for TPH and chloride utilizing PetroFLAG® and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 0.25 feet to 3 feet bgs. Photographic documentation of excavation activities is included in Appendix C.

Following removal of impacted and waste-containing soil, 5-point composite soil samples were collected at every 200 square foot area from the floor and sidewalls of the excavation. The 5-point composite 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 from the excavation areas included: floor soil samples (FS01 through FS29) collected at depths ranging from 0.25 feet to 3 feet bgs and sidewall soil samples (SW01 through SW07) at depths ranging from the ground surface to 2 feet bgs.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01, FS03, FS04, FS09, FS11, FS13, FS17 and FS29 exceeded the Site Closure Criteria. Laboratory analytical results from sidewall soil samples SW01 through SW06 indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement where applicable. Sidewall soil sample SW07 exceeded the Site Closure Criteria but it is located against the earthen secondary containment wall and is within the area of requested deferral. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical reports are included as Appendix E.

Ensolum personnel returned to the Site on November 21, 2023, to recollect excavation floor soil samples FS01, FS03, FS04, FS09, FS11, FS13, FS17 and FS29; all COC concentrations within the eight soil samples were in compliance the Site Closure Criteria and below the reclamation requirement. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

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The excavation area measured approximately 5,742 square feet. A total of approximately 580 cubic yards of impacted soil was removed during the excavation. The soil was transported and properly disposed of at the R360 Hobbs Facility in New Mexico.

## DEFERRAL REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 2023 release of produced water and crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated COC concentrations within the excavated area, outside of the earthen containment and away from surface flow lines (see SW07 location on Figures 2 and 3), were compliant with the Site Closure Criteria and compliant with the reclamation requirement. Those samples that were not compliant with the Site Closure Criteria (sidewall soil sample SW07) failed due to their proximity to the area of requested deferral. Based on soil sample analytical results, no further remediation of the area outside of the earthen containment was required. WPX will backfill the excavation with material purchased locally and recontour the Site to match existing Site conditions. The disturbed pasture area will be re-seeded with the BLM seed mixture for sandy soil (Seed Mixture #2).

WPX has remediated impacts at the Site to the maximum extent practicable (MEP) based on Site safety conditions relating to active production equipment and associated flow lines. WPX is requesting deferral of final remediation of residual impacts due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The impacted soil is limited to the area beneath production equipment and surface piping, where remediation would require a major facility deconstruction. WPX was able to excavate approximately 580 cubic yards of accessible impacted soil outside of the earthen containment. The impacted soil remaining in place is laterally defined by delineation soil samples SS01 and SS02 at ground surface as well as the confirmation samples FS12 and FS20, along the west side of the earthen containment, and vertically defined by borehole samples BH01@8' and BH01@9'. The estimated area of remaining impacted soil measures an area of 1,850 square feet, and a total of approximately 548 cubic yards of impacted soil remains in place, assuming a depth of 8 feet bgs based on laboratory analytical results from delineation soil samples.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Any gross impacts were removed during the initial cleanup.

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 nAPP2323030159 until final reclamation of the well pad or major construction, whichever comes first.

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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**



Ashley Giovengo  
Senior Engineer



Daniel R. Moir, PG  
Senior Managing Geologist

Appendices:

Figure 1 Site Receptor Map  
Figure 2 Delineation Soil Sample Locations  
Figure 3 Excavation Soil Sample Locations  
Figure 4 Area of Requested Deferral

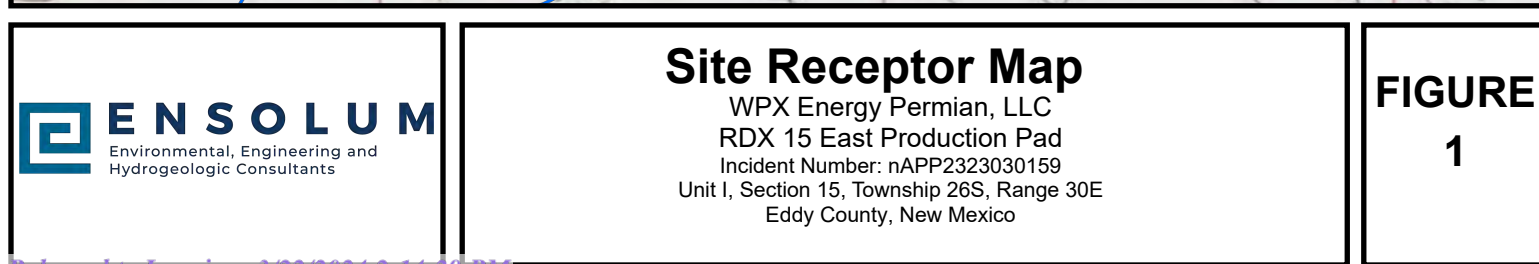
Table 1 Delineation Soil Samples  
Table 2 Confirmation Soil Samples

Appendix A Form C-141  
Appendix B Referenced Well Records  
Appendix C Lithologic Soil Sampling Logs  
Appendix D Photographic Log  
Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation  
Appendix F NMOCD Correspondence



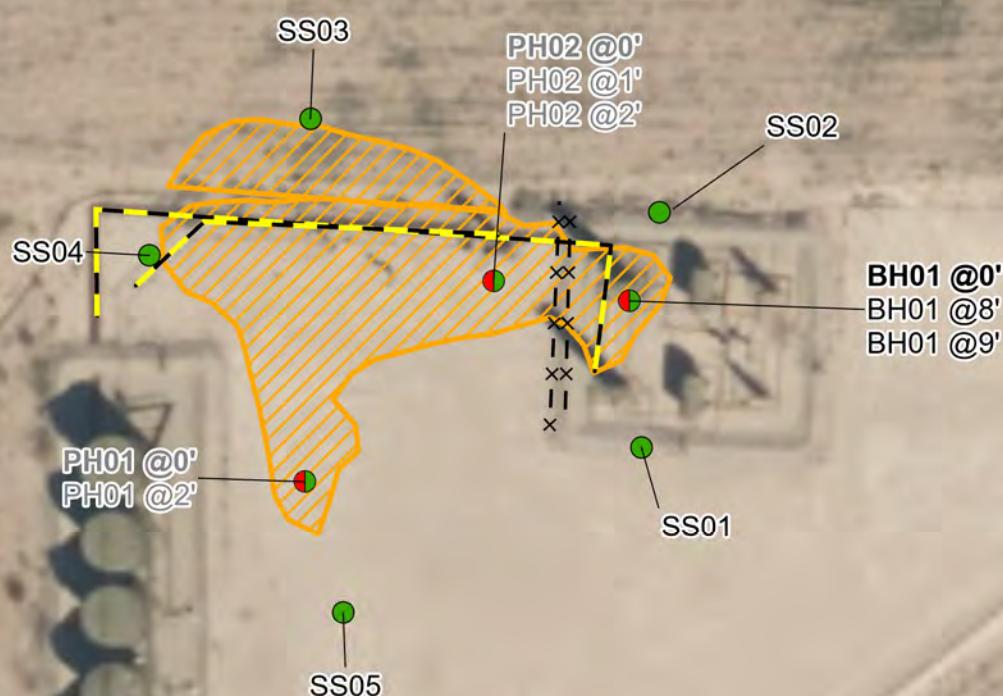
FIGURES

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**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Initial Concentrations Exceeding Closure Criteria
- Pipeline/Line/Utility
- x Berm/Fence
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 12.5 25 50 75 100  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

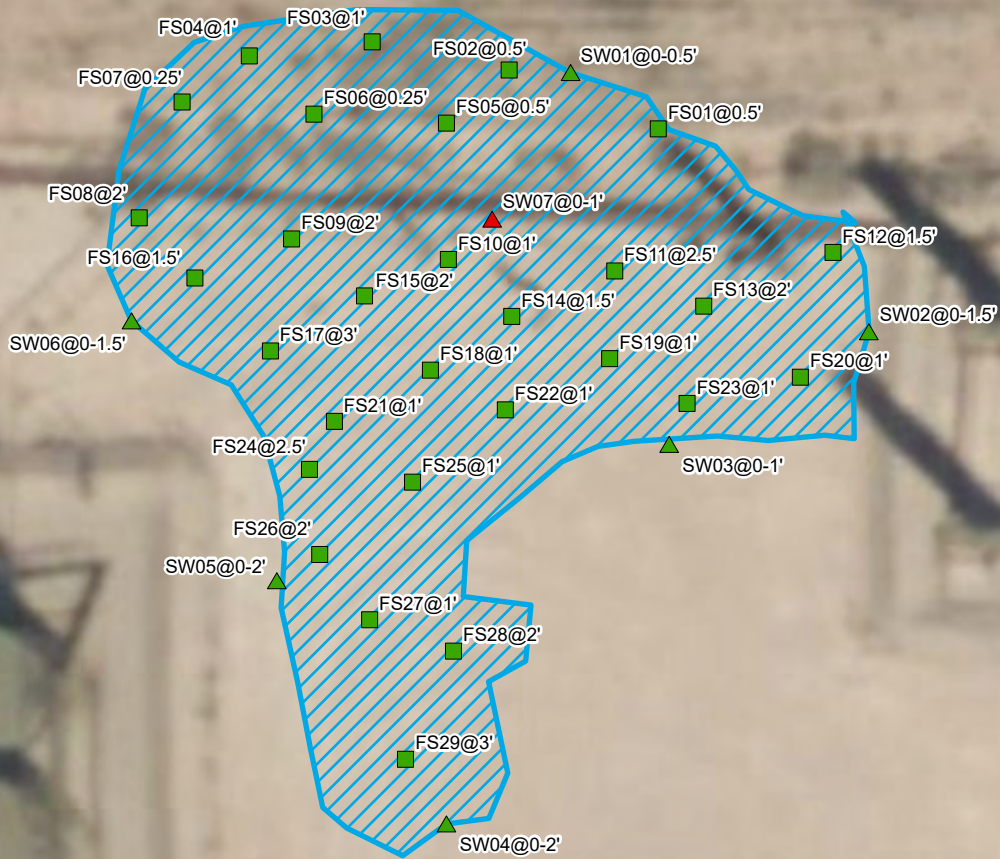
WPX Energy Permian, LLC  
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 Incident Number: nAPP2323030159  
 Section 16, Township 26S, Range 30E  
 Eddy County, New Mexico

**FIGURE**

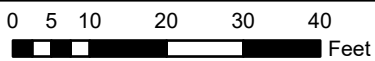
**2**

**Legend**

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Confirmation Soil Sample Locations

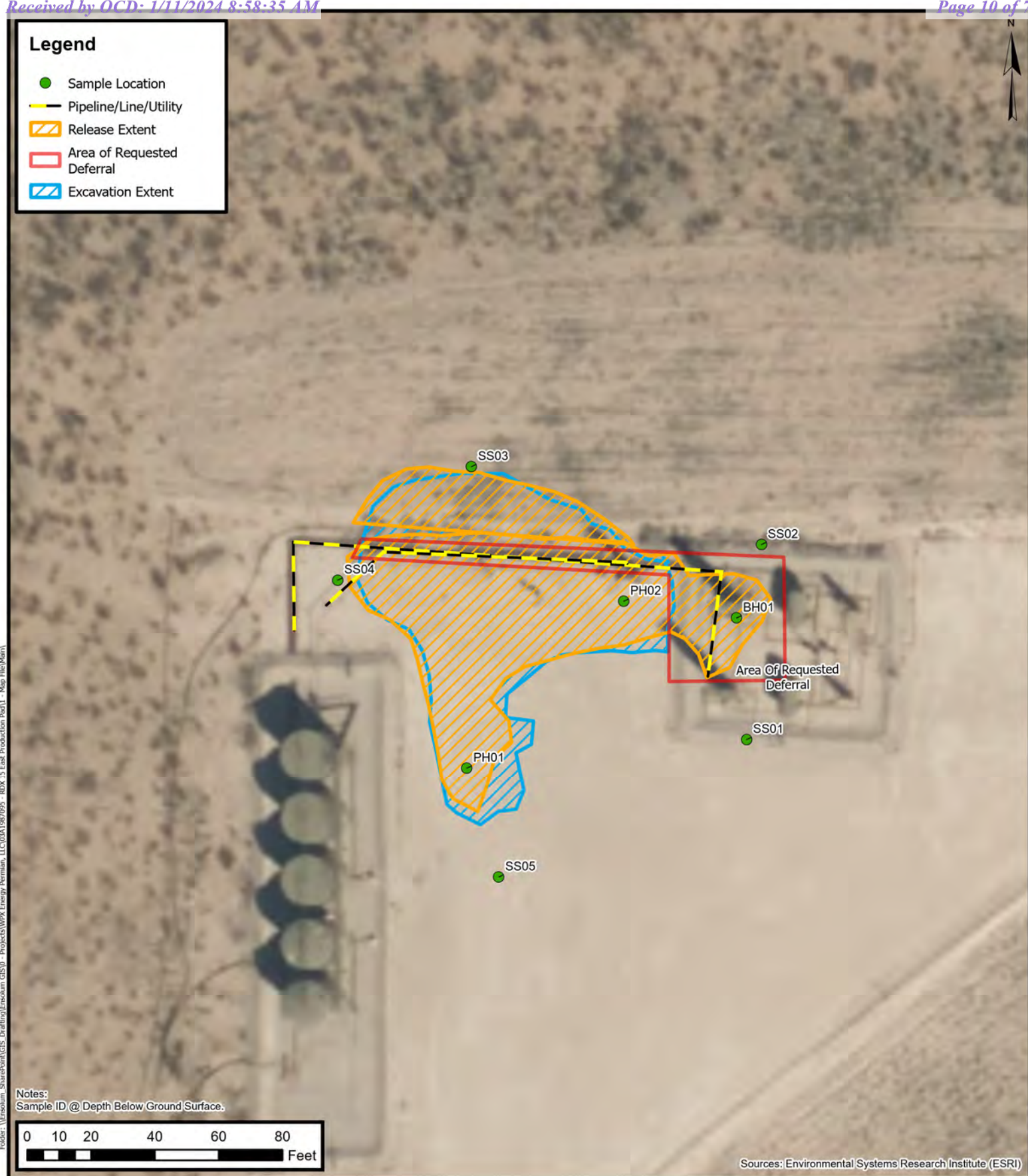
Devon Energy Production Company  
RDX 15 East Production Pad  
Incident Number: nAPP2323030159  
Unit I, Section 15, Township 26S, Range 30E  
Eddy County, New Mexico

**FIGURE**

**3**

**Legend**

- Sample Location
- Pipeline/Line/Utility
- ▨ Release Extent
- ▨ Area of Requested Deferral
- ▨ Excavation Extent



## Area of Requested Deferral

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**FIGURE**  
**4**



TABLES



**TABLE 1**  
**DELINEATION SOIL SAMPLE ANALYTICAL RESULTS**  
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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)			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
Delineation Soil Sample Analytical Results										
SS01	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS02	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS03	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS04	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS05	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
BH01	8/23/2023	0	<0.0250	<0.0250	<20.0	259	206	259	<b>465</b>	<b>1,800</b>
BH01	8/23/2023	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	471
BH01	8/23/2023	9	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	401
PH01	8/23/2023	0	<0.0250	0.789	<20.0	485	176.0	485	<b>661</b>	<b>7,680</b>
PH01	8/23/2023	2	<0.0250	<0.0250	<20.0	53.4	<50.0	<50.0	53.4	54.0
PH02	8/23/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<b>6,540</b>
PH02	8/23/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	77.8
PH02	8/23/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	105

**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**  
**CONFIRMATION SAMPLE ANALYTICAL RESULTS**  
 WPX Energy Permian, LLC  
 RDX 15 East Production Pad  
 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
Excavation Floor Soil Sample Analytical Results										
FS01	11/3/2023	0.5	<0.0250	<0.0500	<20.0	83.2	60.5	83.2	143.7	141
FS01	11/21/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.8
FS02	11/3/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.4
FS03	11/2/2023	0.5	<0.0250	<0.0500	<20.0	198	203	198	401	440
FS03	11/21/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.7
FS04	11/2/2023	0.25	<0.0250	<0.0500	<20.0	256	218	256	474	155
FS04	11/21/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS05	11/3/2023	0.5	<0.0250	<0.0500	<20.0	43.5	<50.0	43.5	43.5	182
FS06	11/2/2023	0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
FS07	11/2/2023	0.25	<0.0250	<0.0500	<20.0	34.1	<50.0	34.1	34.1	48.2
FS08	11/2/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
FS09	11/3/2023	1	<0.0250	<0.0500	<20.0	385	276	385	661	360
FS09	11/21/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	216
FS10	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	199
FS11	11/2/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	633
FS11	11/21/2023	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	234
FS12	11/3/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94
FS13	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	804
FS13	11/21/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	418
FS14	11/3/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	548
FS15	11/3/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	269
FS16	11/3/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.0
FS17	11/3/2023	1	<0.0250	<0.0500	<20.0	72.3	51.4	72.3	123.7	243
FS17	11/21/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.1

**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 Continued**  
**CONFIRMATION SAMPLE ANALYTICAL RESULTS**  
 WPX Energy Permian, LLC  
 RDX 15 East Production Pad  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Excavation Floor Soil Sample Analytical Results Continued</b>										
FS18	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.8
FS19	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	374
FS20	11/2/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	137
FS21	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
FS22	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	223
FS23	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	458
FS24	11/3/2023	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	34.2
FS25	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	143
FS26	11/3/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.6
FS27	11/3/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	195.0
FS28	11/3/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	161
FS29	11/3/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	700
FS29	11/21/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	91.8
<b>Excavation Sidewall Soil Sample Analytical Results</b>										
SW01	11/3/2023	0-0.5	<0.0250	<0.0500	<20.0	41.4	<50.0	41.4	41.4	170
SW02	11/3/2023	0-1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	239
SW03	11/3/2023	0-1	<0.0250	<0.0500	<20.0	26.4	<50.0	26.4	26.4	420
SW04	11/3/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	285
SW05	11/3/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
SW06	11/3/2023	0-1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	185.0
SW07	11/3/2023	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>4,350</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



APPENDIX A

Form C-141

---

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2323030159
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permian, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmn.com	Incident # (assigned by OCD) nAPP2323030159
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0416679 Longitude -103.8637238  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 15 East Production Pad	Site Type Production Facility
Date Release Discovered: 8/16/2023	API# (if applicable) N/A

Unit Letter	Section	Township	Range	County
I	15	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: )

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 16	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Manway gasket on heater treater failed, allowing for release of fluids to secondary containment and pad surface.

bbl estimate =

saturated soil volume (ft<sup>3</sup>)

4.21 (bbl equivalent)

ft<sup>3</sup>


\* estimated soil porosity(%) + recovered fluids (bbl)

Incident ID	nAPP2323030159
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Jim Raley</u> Title: <u>Environmental Professional</u>	
Signature: <u></u> Date: <u>8/18/2023</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<b><u>OCD Only</u></b>	
Received by: _____ Date: _____	

Incident ID	nAPP2323030159
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<u>&gt;55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2323030159
District RP	
Facility ID	
Application ID	

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.

Printed Name: Jim Raley

Title: Environmental Professional

Signature: \_\_\_\_\_

Date: 12/26/2023

email: jim.raley@dvn.com

Telephone: 575-689-7597

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	nAPP2323030159
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Jim RaleyTitle: Environmental ProfessionalSignature: \_\_\_\_\_ Date: 12/26/2023email: jim.raley@dm.com Telephone: 575-689-7597**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## APPENDIX B

### Referenced Wells

---



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

OSC 011 900 8 2022-01-11

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4655			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 58.26	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	52	48.37	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE NE Sec.16 T26S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/28/2022		DRILLING ENDED 7/28/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	
					DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
						DATE STATIC MEASURED 7/28/22, 8/2/22		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.5	Boring-HSA	--	--	--	--
	3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

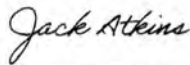
FILE NO. C-4655	POD NO. 1	TRN NO. 729332
LOCATION 26S-30E-16-1-2-2	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, Fine-grained, poorly graded, Brown	Y    ✓ N	
	4	48	44	Sand, Fine-grained, poorly graded, with caliche Tan and white	Y    ✓ N	
	48	55	7	Sand, Fine-grained, poorly graded, Tan Brown	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):            0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.  USE OF PLS 8 2022 04/10/17	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	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 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME	Jackie D. Atkins 8/4/2022 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. C-4655	POD NO. 1	TRN NO. 729332
LOCATION 265.30E.16.1.2.2.	WELL TAG ID NO.	PAGE 2 OF 2



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

August 4, 2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4655 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4655 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton". The signature is fluid and cursive, with the first name "Lucas" and last name "Middleton" clearly distinguishable.

Lucas Middleton

Enclosures: as noted above


052 Q77 AUG 0 2022 4:00 PM





## APPENDIX C

### Lithologic Soil Sampling Logs

---

								Sample Name: BH01		Date: 08/23/2023	
								Site Name: RDX 15 East Production Pad			
								Incident Number: nAPP2323030159			
								Job Number: 03A1987			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.0416679, -103.8637238								Hole Diameter: 3"		Total Depth: 9'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and Total Petroleum Hydrocarbons (TPH), respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Moist	1366	317	Y	BH01	0'	0'		<p>Primarily, poorly-sorted, light brown caliche varying in grain size from fine to large gravel, non-plastic, non-cohesive</p> <p>Well- to poorly- sorted light tan sand with some clay content, non- to low plasticity and somewhat cohesive due to clay content.</p> <p>Well- to poorly- sorted light tan sand with some (&gt;5%) red clay content, non- to low plasticity and somewhat cohesive due to clay content.</p> <p>Light brown to red, medium- to fine-grained sand with a 50-50 mixture of clay, moist, non-plastic, non-cohesive.</p>			
Dry	3130	NA	N	BH01	1'	1'					
Dry	700	NA	N	BH01	2'	2'					
Dry	952	NA	N	BH01	3'	3'					
Dry	1114	NA	N	BH01	4'	4'					
Dry	1114	NA	N	BH01	5'	5'					
Dry	739	NA	N	BH01	6'	6'					
Dry	672	NA	N	BH01	7'	7'					
Dry	397	52	N	BH01	8'	8'					
Dry	156	65	N	BH01	9'	9'		Total Depth 9' bgs.			

								Sample Name: PH01		Date: 80/23/2023	
								Site Name: RDX 15 East Production Pad			
								Incident Number: nAPP2323030159			
								Job Number: 03A1987			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Chad Hamilton		Method: Backhoe	
Coordinates: 32.0416679, -103.8637238								Hole Diameter: 2'		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and Total Petroleum Hydrocarbons (TPH), respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Moist	12896.8	317	Y	PH01	0'	0'		Primarily, poorly-sorted, dark brown caliche varying in grain size from fine to large gravel, non-plastic, non-cohesive, major staining present.  Primarily, poorly-sorted, light brown caliche varying in grain size from fine to large gravel, non-plastic, non-cohesive, major staining present.			
Moist	12896.8	NA	Y	PH01	0.5'	0.5'					
Dry	952	NA	N	PH01	1'	1'					
Dry	ND	57	N	PH01	2'	2'					
Total Depth 2' bgs.											

 <b>ENSOLUM</b>		Sample Name: PH02		Date: 80/23/2023				
		Site Name: RDX 15 East Production Pad						
		Incident Number: nAPP2323030159						
		Job Number: 03A1987						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.0416679, -103.8637238				Hole Diameter: 2'				
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and Total Petroleum Hydrocarbons (TPH), respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.				Method: Backhoe				
Total Depth: 2'								
Moisture Content	Chloride (ppm)	TPH	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Moist	10869.6	NA	Y	PH01	0'	0'		Primarily, poorly-sorted, light brown caliche varying in grain size from fine to large gravel, non-plastic, non-cohesive, some staining present.
Moist	190	32	N	PH01	1'	1'		Primarily, poorly-sorted, light to medium brown sand with some caliche mixed varying in grain size from fine sand to large gravel, non-plastic, non-cohesive.
Dry	ND	NA	N	PH01	2'	2'		
Total Depth 2' bgs.								



## APPENDIX D

### Photographic Log

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# Photographic Log

WPX Energy Permian, LLC  
RDX 15 East Production Pad  
nAPP2323030159



Photograph 1  
Description: Release Area  
View: West

Date: 08/18/2023



Photograph 2  
Description: Release Area  
View: West

Date: 08/18/2023



Photograph 3  
Description: Release Area  
View: North

Date: 08/18/2023



Photograph 4  
Description: Release Area  
View: East

Date: 08/18/2023



## Photographic Log

WPX Energy Permian, LLC  
RDX 15 East Production Pad  
nAPP2323030159



Photograph 5 Date: 8/23/23  
Description: BH01 Vertical Delineation  
View: North



Photograph 6 Date: 08/23/2023  
Description: PH02 Vertical Delineation  
View: Northeast



Photograph 7 Date: 08/23/2023  
Description: PH01 Vertical Delineation  
View: West

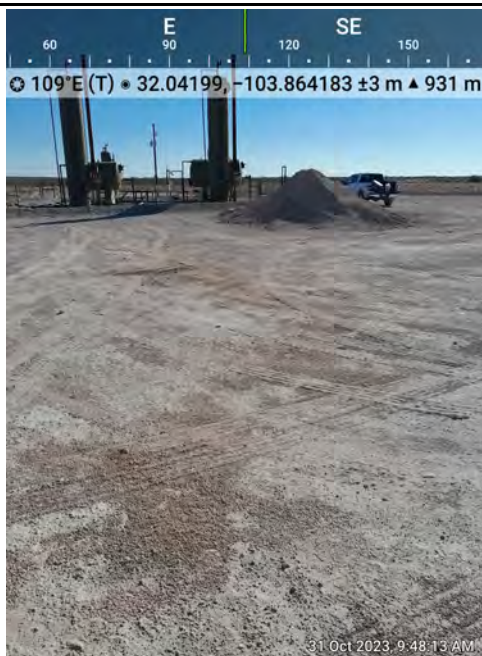


Photograph 8 Date: 08/23/2023  
Description: Release Area after scrape  
View: West



# Photographic Log

WPX Energy Permian, LLC  
RDX 15 East Production Pad  
nAPP2323030159



Photograph 9 Date: 10/31/23  
Description: Hand digging around equipment  
View: East



Photograph 10 Date: 11/2/23  
Description: Excavation  
View: East



Photograph 11 Date: 11/2/23  
Description: Excavation  
View: Northeast

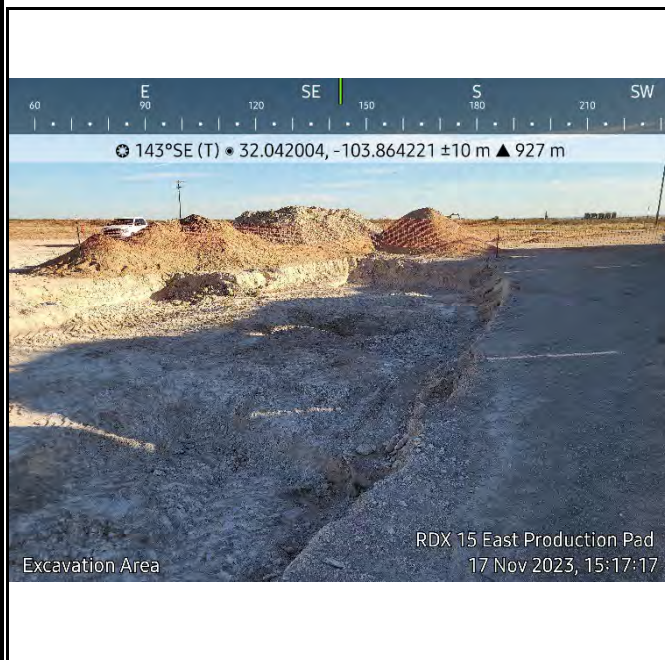


Photograph 12 Date: 11/3/23  
Description: Excavation  
View: Northwest



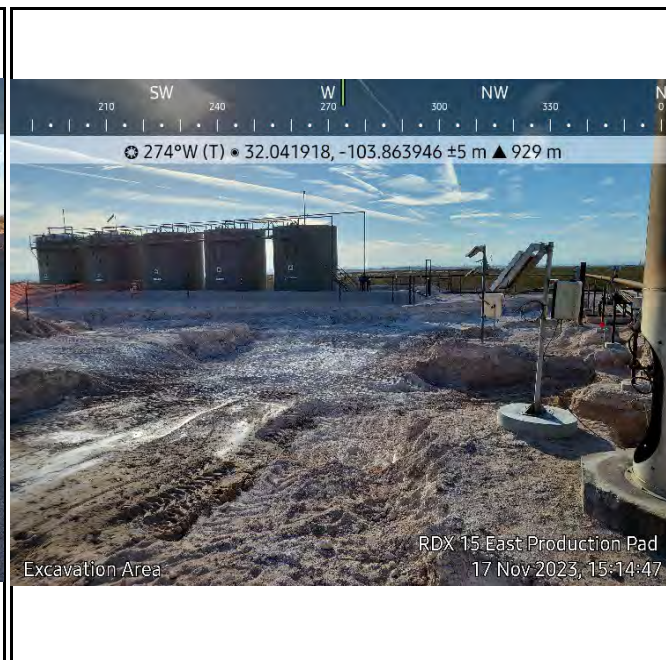
# Photographic Log

WPX Energy Permian, LLC  
RDX 15 East Production Pad  
nAPP2323030159



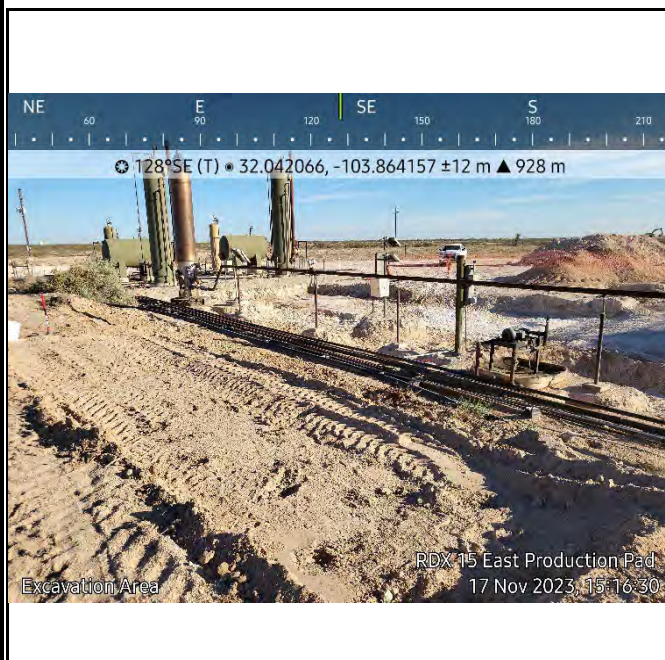
Photograph 13  
Description: Excavation  
View: Southeast

Date: 11/17/23



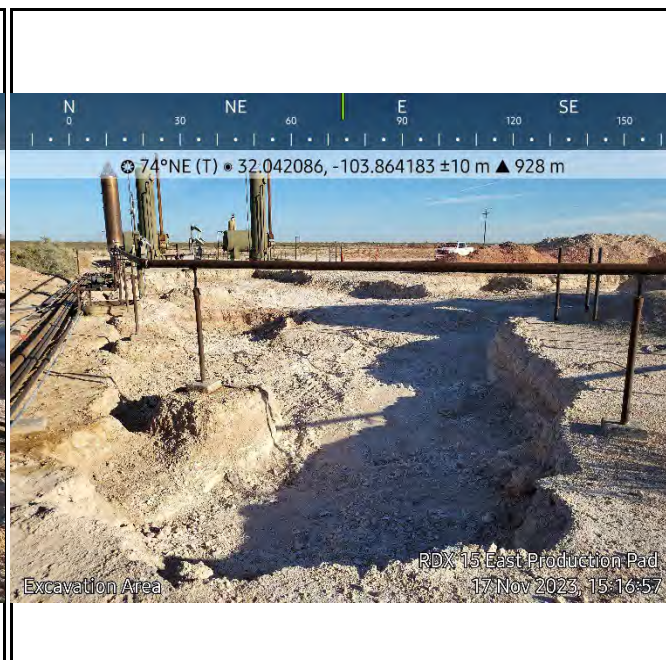
Photograph 14  
Description: Excavation  
View: West

Date: 11/17/23



Photograph 15  
Description: Excavation  
View: Southeast

Date: 11/17/23



Photograph 16  
Description: Excavation  
View: East

Date: 11/17/23

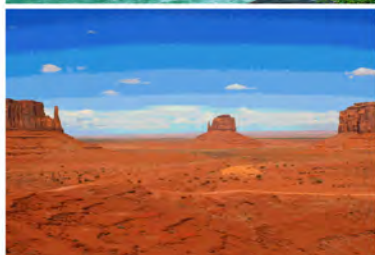


## APPENDIX E

### 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 15 East Production Pad

Work Order: E308183

Job Number: 01058-0007

Received: 8/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/31/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/31/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX 15 East Production Pad  
Workorder: E308183  
Date Received: 8/25/2023 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/25/2023 5:30:00AM, under the Project Name: RDX 15 East Production Pad.

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

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

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

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

Respectfully,

**Walter Hinchman**  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/31/23 17:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E308183-01A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
BH01 - 8'	E308183-02A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
BH01 - 9'	E308183-03A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
PH01 - 0'	E308183-04A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
PH01 - 2'	E308183-05A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
PH02 - 0'	E308183-06A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
PH02 - 1'	E308183-07A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
PH02 - 2'	E308183-08A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
SS01 - 0'	E308183-09A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
SS02 - 0'	E308183-10A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
SS03 - 0'	E308183-11A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
SS04 - 0'	E308183-12A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
SS05 - 0'	E308183-13A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.

## Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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BH01 - 0'

E308183-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.5 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	259	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	206	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	100 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	1800	40.0	2	08/29/23	08/30/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: RDX 15 East Production Pad  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
8/31/2023 5:31:15PM

BH01 - 8'

E308183-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335049
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335034
Chloride	471	200	10	08/29/23	08/30/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: RDX 15 East Production Pad  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
8/31/2023 5:31:15PM

BH01 - 9'

E308183-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335049
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335034
Chloride	401	400	20	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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PH01 - 0'

E308183-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	0.134	0.0250	1	08/25/23	08/25/23	
Toluene	0.0720	0.0250	1	08/25/23	08/25/23	
o-Xylene	0.167	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	0.416	0.0500	1	08/25/23	08/25/23	
Total Xylenes	0.583	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	485	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	176	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	103 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	7680	100	5	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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PH01 - 2'

E308183-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.9 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	53.4	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	102 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	54.0	20.0	1	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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PH02 - 0'

E308183-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.9 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	106 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	6540	100	5	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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PH02 - 1'

E308183-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.0 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	102 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	77.8	20.0	1	08/29/23	08/30/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: RDX 15 East Production Pad  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
8/31/2023 5:31:15PM

PH02 - 2'

E308183-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335049
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335034
Chloride	105	20.0	1	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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SS01 - 0'

E308183-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.6 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	97.2 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	284	40.0	2	08/29/23	08/30/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: RDX 15 East Production Pad  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
8/31/2023 5:31:15PM

SS02 - 0'

E308183-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334085
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335049
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335034
Chloride	193	20.0	1	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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SS03 - 0'

E308183-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.9 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	104 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	31.8	20.0	1	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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SS04 - 0'

E308183-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.4 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	103 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	360	20.0	1	08/29/23	08/30/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 15 East Production Pad Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/31/2023 5:31:15PM
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SS05 - 0'

E308183-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	0.0507	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	92.0 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.4 %	70-130		08/25/23	08/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	103 %	50-200		08/29/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	54.6	20.0	1	08/29/23	08/30/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/31/2023 5:31:15PM

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 (2334085-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

LCS (2334085-BS1) Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.96	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.8	70-130			

Matrix Spike (2334085-MS1) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.93	0.0250	5.00	ND	98.7	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	61-133			
Toluene	5.00	0.0250	5.00	ND	100	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2334085-MSD1) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.94	0.0250	5.00	ND	98.8	54-133	0.130	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.9	61-133	0.0929	20	
Toluene	5.00	0.0250	5.00	ND	100	61-130	0.00300	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	0.240	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.122	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.00199	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/31/2023 5:31:15PM

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 (2334085-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.68		8.00		83.5	70-130			

LCS (2334085-BS2) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.76		8.00		84.5	70-130			

Matrix Spike (2334085-MS2) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.3	70-130			

Matrix Spike Dup (2334085-MSD2) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130	3.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/31/2023 5:31:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335049-BLK1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.5		50.0		115	50-200			

LCS (2335049-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2335049-MS1)					Source: E308183-12		Prepared: 08/29/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			

Matrix Spike Dup (2335049-MSD1)					Source: E308183-12		Prepared: 08/29/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	1.91	20	
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/31/2023 5:31:15PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2335034-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	ND	20.0							
LCS (2335034-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2335034-MS1)					Source: E308183-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	1980	40.0	250	1800	74.5	80-120			M4
Matrix Spike Dup (2335034-MSD1)					Source: E308183-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	1810	40.0	250	1800	3.87	80-120	9.31	20	M4

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	RDX 15 East Production Pad	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/31/23 17:31

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

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 Energy					Bill To		Lab Use Only				TAT				EPA Program		
Project: RDX Federal 28 #023					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr		E308183		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	GDGC TX	State			
Email: agiovengo@ensolum.com					Email: jim.raley@dvn.com									NM	CO	UT	AZ
Report due by:														X			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks			
10:27	8/23/2023	S	1	BH01 - 0'	1								X				
11:45	8/23/2023	S	1	BH01 - 8'	2								X				
11:50	8/23/2023	S	1	BH01 - 9'	3								X			Only run if BH01 - 8' fails 600 Chloride 100TPH	
12:25	8/23/2023	S	1	PH01 - 0'	4								X				
13:25	8/23/2023	S	1	PH01 - 2'	5								X				
12:20	8/23/2023	S	1	PH02 - 0'	6								X				
12:50	8/23/2023	S	1	PH02 - 1'	7								X				
12:55	8/23/2023	S	1	PH02 - 2'	8								X			Only run if BH01 - 1' fails 600 Chloride 100TPH	
13:57	8/23/2023	S	1	SS01 - 0'	9								X				
14:00	8/23/2023	S	1	SS02 - 0'	10								X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@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									
<i>Michelle Gonzales</i>		8/24/23	1030	<i>Michelle Gonzales</i>		8-24-23	1030	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N									
<i>Michelle Gonzales</i>		8-24-23	1630	<i>Michelle Gonzales</i>		8-24-23	1715	T1 _____ T2 _____ T3 _____									
<i>Andrew Messo</i>		8-24-23	2345	<i>Andrew Messo</i>		8/25/23	5:30	AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	


**envirotech**

Client: Devon Energy					<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		Lab Use Only						TAT				EPA Program			
Project: RDX Federal 28 #023							Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo							E308183 01058-0007								X					
Address: 3122 National Parks Hwy							Analysis and Method											RCRA		
City, State, Zip: Carlsbad NM, 88220							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																NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com																X				
Report due by:																Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
14:30	8/23/2023	S	1	SS03 - 0'	11											X				
14:25	8/23/2023	S	1	SS04 - 0'	12											X				
15:00	8/23/2023	S	1	SS05 - 0'	13											X				
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@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						
<i>Michelle Gonzales</i>					8/24/23	1030	<i>Michelle Gonzales</i>					8-24-23	1030	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						
<i>Michelle Gonzales</i>					8-24-23	1630	<i>Andrea Messo</i>					8-24-23	1715							
Relinquished by: (Signature)					Date	Time	Received by: (Signature)					Date	Time	AVG Temp °C						
<i>Andrea Messo</i>					8-24-23	2345	<i>Cathy Man</i>					8/25/23	5:30	4						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



envirotech

## Project Information

## Chain of Custody

Page 1 of 2

BDX 15 East Production Pad

Changed project name per Client. 8/25/23 CM

Client: Devon Energy					Bill To					Lab Use Only					TAT				EPA Program						
Project: BDX Federal 28 #023					Attention: Jim Raley					Lab WO# E308183					Job Number 01058-0007				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr																	X			
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220																				
City, State, Zip: Carlsbad NM, 88220					Phone: (575)689-7597																				
Phone: 575-988-0055					Email: jim.raley@dv.com																				
Email: agiovengo@ensolum.com																									
Report due by:																									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX	State					Remarks				
																	NM	CO	UT	AZ	TX				
																	X								
10:27	8/23/2023	S	1	BH01 - 0'	1								X												
11:45	8/23/2023	S	1	BH01 - 8'	2								X												
11:50	8/23/2023	S	1	BH01 - 9'	3								X									Only run if BH01 - 8' fails 600 Chloride 100TPH			
12:25	8/23/2023	S	1	PH01 - 0'	4								X												
13:25	8/23/2023	S	1	PH01 - 2'	5								X												
12:20	8/23/2023	S	1	PH02 - 0'	6								X												
12:50	8/23/2023	S	1	PH02 - 1'	7								X												
12:55	8/23/2023	S	1	PH02 - 2'	8								X									Only run if BH01 - 1' fails 600 Chloride 100TPH			
13:57	8/23/2023	S	1	SS01 - 0'	9								X												
14:00	8/23/2023	S	1	SS02 - 0'	10								X												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, chamilton@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													
		8/24/23		1030		Michelle Gonzales		8-24-23		1030		Received on ice: Y / N													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1													
Michelle Gonzales		8-24-23		1630		Andrea Mesa		8-24-23		1715		T2													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3													
Andrea Mesa		8-24-23		2345		Caita Man		8/25/23		5:30		AVG Temp °C 4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									



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## Project Information

## Chain of Custody

Page 2 of 2

**RDX 15 East Production Pad****Changed project name per Client: 8/25/23 cm**

Client: Devon Energy		Bill To		Lab Use Only		TAT		EPA Program					
Project: <b>RDX Federal 28 #023</b>		Attention: Jim Raley		Lab WO# <b>E308183</b>		Job Number <b>01058-0007</b>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovento		Address: 5315 Buena Vista Dr									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										State	
Phone: 575-988-0055		Email: jim.raley@dv.com										NM CO UT AZ TX	
Email: agiovento@ensolum.com												X	
Report due by:												Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
14:30	8/23/2023	S	1	SS03 - 0'	11						X		
14:25	8/23/2023	S	1	SS04 - 0'	12						X		
15:00	8/23/2023	S	1	SS05 - 0'	13						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovento@ensolum.com, jim.raley@dv.com, chamilton@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.

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>Michelle Gonzales</i>	8/24/23	1030	<i>Michelle Gonzales</i>	8-24-23	1030	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
<i>Michelle Gonzales</i>	8-24-23	1630	<i>Andre Messo</i>	8-24-23	1715	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>Andre Messo</i>	8-24-23	2345	<i>Carla Mae</i>	8/25/23	5:30	4
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



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## Envirotech Analytical Laboratory

Printed: 8/25/2023 9:25:03AM

## 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:	08/25/23 05:30	Work Order ID:	E308183
Phone:	(505) 382-1211	Date Logged In:	08/24/23 15:13	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	08/31/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: 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

Project name on COC did not match sample containers. Client asked to change the project name on the COC to match containers. Per client remarks Sample #3- Only run if BH01-8 fails 600 Chloride 100TPH. Sample #8- Only run if BH01-1 Fails 600 Chloride 100TPH.

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

Date



envirotech Inc.



## APPENDIX F

### Email Correspondence

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**From:** [Raley, Jim](#)  
**To:** [CFO Spill, BLM NM](#)  
**Cc:** [Ashley Giovengo](#); [Cole Burton](#)  
**Subject:** RDX 15 East Production Pad  
**Date:** Friday, August 18, 2023 9:10:47 AM  
**Attachments:** [image001.png](#)  
[Initial C-141.pdf](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Chrisha,

Please find attached C-141 and two pictures for spill of 17 bbls at RDX 15 East production pad. Gasket on treater failed and allowed release of fluids to secondary containment and pad surface on 8/16/2023. NMOCD has been notified and assigned incident# nAPP2323030159.

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



**Confidentiality Warning:** This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Ashley Giovengo](#); [Raley, Jim](#); [Morgan, Crisha A](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] RE: 48-hour Confirmation Sampling Notification - WPX Energy Permian, LLC - RDX 15 East Production Pad - Incident Number nAPP2323030159  
**Date:** Monday, October 30, 2023 11:01:03 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Hi Ashley,

Thanks for updating us. The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

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

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Monday, October 30, 2023 10:45 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Raley, Jim <[jim.raleym@dmn.com](mailto:jim.raleym@dmn.com)>; Morgan, Crisha A <[camorgan@blm.gov](mailto:camorgan@blm.gov)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** [EXTERNAL] RE: 48-hour Confirmation Sampling Notification - WPX Energy Permian, LLC - RDX 15 East Production Pad - Incident Number nAPP2323030159

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

Hello,

We will need to extend this confirmation sampling notification to Friday, November 03, 2023. This project was delayed, and excavation will not begin until Tuesday, October 30, 2023.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

**Ensolum, LLC**

in f 

---

**From:** Ashley Giovengo  
**Sent:** Monday, October 23, 2023 3:10 PM  
**To:** Enviro, OCD, EMNRD <[ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov)>; Raley, Jim <[jim.rale@dyn.com](mailto:jim.rale@dyn.com)>; Morgan, Crisha A <[camorgan@blm.gov](mailto:camorgan@blm.gov)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>  
**Subject:** 48-hour Confirmation Sampling Notification - WPX Energy Permian, LLC - RDX 15 East Production Pad - Incident Number nAPP2323030159

Hello,

We intend to collect confirmation samples at WPX Energy Permian, LLC's RDX 15 East Production Pad site (Incident Number nAPP2323030159) beginning on Thursday, October 26, 2023, at 09:00 am MST through Tuesday, October 31, 2023.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

**Ensolum, LLC**

in f 

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Cole Burton](#)  
**Cc:** [Ashley Giovengo](#); [Chad Hamilton](#); [Ethan Haft](#); [Raley, Jim](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - WPX Energy Permian, LLC - RDX 15 East Production Pad - Incident Number nAPP2323030159  
**Date:** Tuesday, November 14, 2023 1:27:58 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Hi Cole,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

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

---

**From:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>  
**Sent:** Tuesday, November 14, 2023 11:54 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>; Raley, Jim <[Jim.Raley@dvn.com](mailto:Jim.Raley@dvn.com)>  
**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification - WPX Energy Permian, LLC - RDX 15 East Production Pad - Incident Number nAPP2323030159

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

Hello,

We intend to collect confirmation samples at WPX Energy Permian, LLC's RDX 15 East Production Pad site (Incident Number *nAPP2323030159*) beginning on Friday, November 17, 2023, at 09:00 am MST.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



**Cole Burton**

Project Manager

575-706-5056

**Ensolum, LLC**

in f 

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

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

QUESTIONS

Action 302482

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302482
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2323030159
Incident Name	NAPP2323030159 RDX 15 EAST PRODUCTION PAD @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source

Please answer all the questions in this group.

Site Name	RDX 15 EAST PRODUCTION PAD
Date Release Discovered	08/16/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Treating Tower   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Treating Tower   Produced Water   Released: 16 BBL   Recovered: 10 BBL   Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

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

QUESTIONS, Page 2  
  
Action 302482

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	302482
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 01/11/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------

**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  
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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, Page 3

Action 302482

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302482
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (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	Greater than 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	Yes

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	4350
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	43.5
GRO+DRO	(EPA SW-846 Method 8015M)	43.5
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/01/2050
On what date will (or did) the final sampling or liner inspection occur	11/21/2023
On what date will (or was) the remediation complete(d)	11/21/2023
What is the estimated surface area (in square feet) that will be reclaimed	3823
What is the estimated volume (in cubic yards) that will be reclaimed	1133
What is the estimated surface area (in square feet) that will be remediated	5742
What is the estimated volume (in cubic yards) that will be remediated	580

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 302482

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	302482
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 01/11/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 302482

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	302482
	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	The deferral area is contained beneath production piping and produced oil and water separators. To fully remediate this Site most production piping would need to be removed as well as removing the separators for this Site.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3823
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1133
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	30-015-39935 RDX 15 #014
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: 01/11/2024

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QUESTIONS, Page 6  
  
Action 302482

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302482
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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

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CONDITIONS  
  
Action 302482

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302482
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of sample points BH01 and SW07 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.	3/22/2024