

June 20, 2024

New Mexico Energy Mineral and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Report Request Addendum

RDX 17 Federal Com #020H

Incident Numbers NAB1422341439 & NAB1706053151

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Closure Report Request Addendum* (CRRA) to document assessment, excavation, and soil sampling activities at the RDX Federal Com #020H (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following releases of fluids onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *CRRA*, describing additional Site assessment and confirmation sampling activities that have occurred and requesting closure for Incident Numbers NAB1422341439 & NAB1706053151.

On November 30, 2023, Ensolum submitted a Closure Report Request (CRR) to the New Mexico Oil Conservation Division (NMOCD); however, the CRR was denied for the following reasons:

SS02 not fully delineated. All areas not reasonably needed for production or subsequent drilling operations must be reclaimed to contain a minimum of four feet of non- waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

This CRRA addresses NMOCD's concerns regarding the delineation sample SS02 required to vertically define the release extent on-pad. This Site is still an active well pad and therefore excavation of the waste-containing soil will be completed during reclamation of the Site.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit A, Section 17, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0489464°, -103.8974533°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 28, 2014, an isolation valve (check valve) on the backup blender was thought to have been leaking. This equipment failure allowed frac fluid to backflow from the active blender to the backup blender and overflow into the secondary containment and beyond. Approximately 700 barrels (bbls) was released and 200 barrels (bbls) of frac fluid was recovered from the secondary containment and an additional 500 bbls was recovered from the well pad itself at the conclusion of pumping operations and

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demobilization of frac equipment. RKI Exploration & Production, LLC (RKI), the previous owner, reported the release to the NMOCD and filed a Corrective Action Form C-141 (Form C-141) on August 05, 2014. Subsequently, NMOCD assigned Incident Number NAB1422341439 to the release.

On February 10, 2017, a hose on a discharge pump developed a hole due to constant vibration. This failure resulted in the release of approximately 400 bbls of produced water onto the caliche pad; 100 bbls was recovered with a vacuum truck. Some of the spilled fluids migrated to an area off-pad and impacted an area roughly 100 feet by 100 feet in size; the off-pad spill area is located on the north side of the caliche pad. The Incident Number associated with this release is NAB1706053151.

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of Form C-141 (see Appendix A), Site Assessment/Characterization. Potential Site receptors are identified in Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4068-POD1, with a depth to water measurement of greater than 125 feet below ground surface (bgs). The well is located 0.24 miles southeast of the Site and the most recent documented water level measurement was collected on May 12, 2017, indicating groundwater was not present in the boring and that groundwater is present at depths greater than 125 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 797 feet north 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): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

### SITE ASSESSMENT ACTIVITIES

Beginning August 22, 2022, through August 23, 2022, Ensolum personnel arrived onsite to assess the vertical extent of waste-containing soil in both subject matter releases. A pothole (PH01) was advanced via mechanical equipment in the vicinity of surface sample SS02 which was collected on September 24, 2018, and associated with Incident Number NAB1422341439. Pothole (Ph01) was advanced to a depth of 1- foot bgs; soil samples were collected at 0.5 feet and 1-foot bgs and submitted for laboratory



analysis. Eleven potholes (PH01 through PH11) were advanced via backhoe in the release area associated with Incident Number NAB1706053151 to a terminal depth of 1-foot bgs in potholes (PH01 through PH09 and PH11); Pothole PH10 was collected at a terminal depth of 2 feet bgs. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The release extent and preliminary soil sample location were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix D.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins, for analysis of the following contaminants 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 sample SS02 collected on September 24, 2018, indicated concentrations of chloride exceeded the strictest Site Closure Criteria at a depth of 1-foot bgs indicating further vertical delineation would be required. Laboratory analytical results from pothole (PH01) indicated COC concentations, associated with Incident Number NAB1422341439, were all in compliance with the strictest Closure Criteria per NMOCD Table I at ground surface and 1-foot bgs. Laboratory analytical results for soil samples collected from potholes associated with Incident Number NAB1706053151 (PH01 through PH11) indicated all COCs were in compliance with the Site Closure Criteria and successfully defined the lateral and vertical extents of the release.

### **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

Beginning on March 12, 2024, through March 13, 2024, Ensolum personnel returned to the Site to complete additional delineation sampling activities in sample location SS02, which is associated with Incident Number NAB1422341439. Sample location SS02 was advanced via backhoe to a terminal depth of 10 feet bgs in order to assess the vertical extent of the spill area in accordance with the strictest Closure Criteria per NMOCD Table I. Discrete delineation soil samples were collected from the pothole (SS02) at depths ranging from 3 feet to 10 feet bgs.

In addition to the delineation sampling activities, Ensolum personnel were onsite to oversee the excavation of confirmation sample areas FS01 and FS02, associated with Incident Number NAB1706053151. It was determined that sample areas FS01 and FS02 were located off-pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the confirmation sample areas. Confirmation sample areas FS01 and FS02 were advanced via backhoe to a depth of 4 feet bgs. Approximately 30 cubic yards of soil from removed from the excavation area and transported to R360 in Hobbs, New Mexico for disposal. The excavation area will be backfilled and recontoured to match preexisting conditions and reseeded with the appropriate BLM seed mixture.

Ensolum personnel collected two, 5-point composite soil samples representing up to 200 square feet from the floor of the excavation (FS01@4' and FS02@4'). 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. The excavation extent and excavation soil sample locations are presented on Figure 4.



The soil samples collected from pothole SS02 and confirmation floor samples FS01@4' and FS02@4' were field screened for TPH utilizing a PetroFLAG® Hydrocarbon Test Kit and chloride with Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following COCs: BTEX; TPH- GRO, TPH-DRO, and TPH-ORO; and chloride following Standard Method SM4500.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for vertical delineation soil samples collected from sample location SS02 were in compliance with the strictest Closure Criteria at 10 feet bgs and were all in compliance with the Site Closure Criteria from ground surface to 10 feet bgs. Laboratory analytical results for excavation floor samples FS01@4' and FS02@4' were both in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Tables 1 and 2 and laboratory analytical reports are included in Appendix E.

#### **CLOSURE REQUEST**

On behalf of WPX, Ensolum herby requests closure for the releases associated with Incident Numbers NAB1422341439 and NAB1706053151 based on the findings and conclusions listed below:

- Depth to water has been reasonably determined for the Site based on depth to groundwater data from NMOSE well C-4068 POD1, which is located 0.24 miles from the Site and indicates groundwater is greater than 125 feet bgs.
- Vertical delineation sampling in the vicinity of soil sample SS02 (Incident Number NAB1422341439) was achieved at a depth of 10 feet bgs. The release area is still on an active oil and gas well pad and COC concentrations are all below the Site Closure Criteria for samples SS01 through SS04 and for pothole PH01.
- The off-pad spill area associated with Incident Number NAB1706053151 was excavated in accordance with the reclamation requirement and all confirmation soil samples met the requirements set forth in 19.15.29.13 NMAC.

Based on the remedial actions taken at the Site, WPX believes they have been protective of human health, the environment, and groundwater.

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

Sincerely, **Ensolum, LLC** 

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

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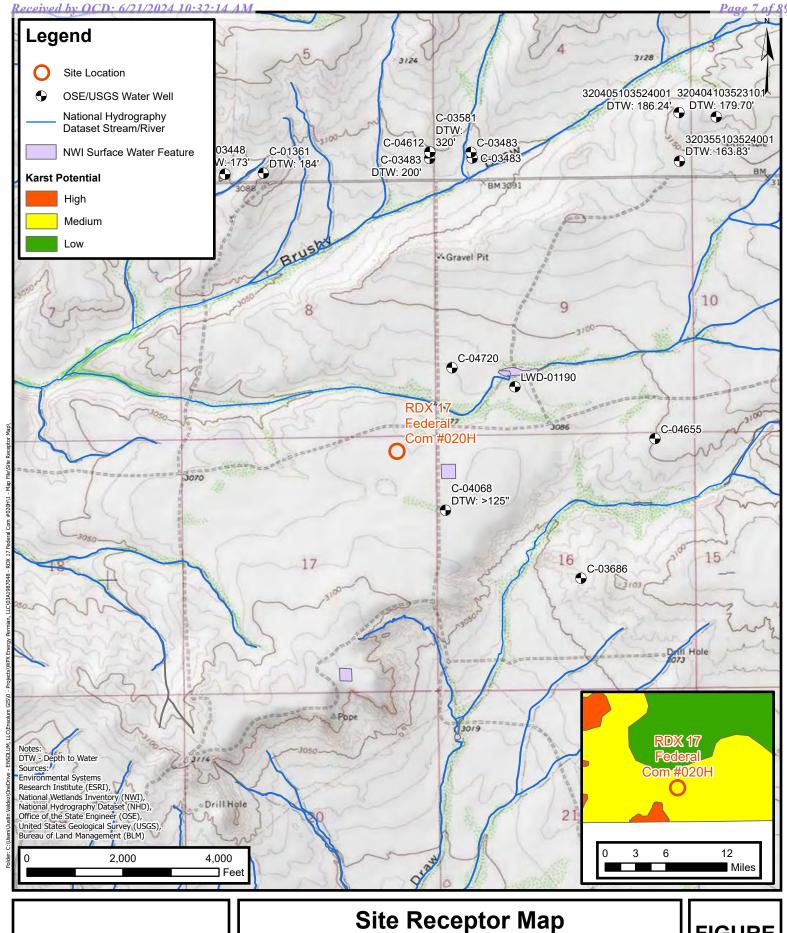


cc: Jim Raley, WPX Energy Permian, LLC Bureau of Land Management

### Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations (NAB1422341439)
Figure 3	Delineation Soil Sample Locations (NAB1706053151)
Figure 4	Confirmation Soil Sample Locations (NAB1706053151)
Table 1	Soil Sample Analytical Results (NAB1422341439)
Table 2	Soil Sample Analytical Results (NAB1706053151)
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 Notifications



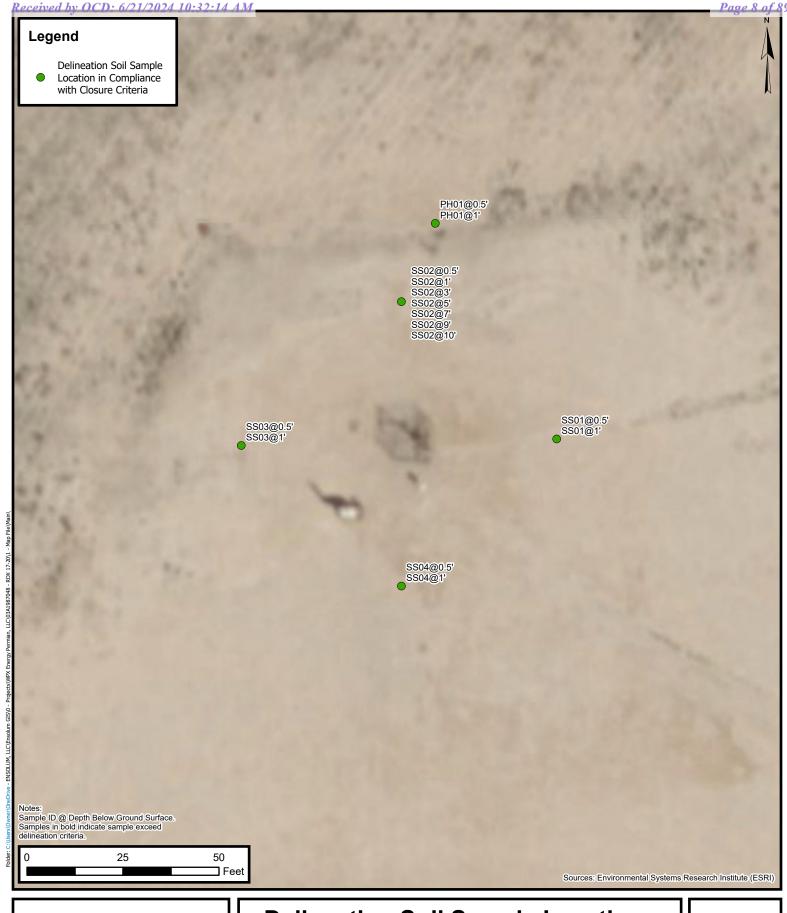




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# **Site Receptor Map**

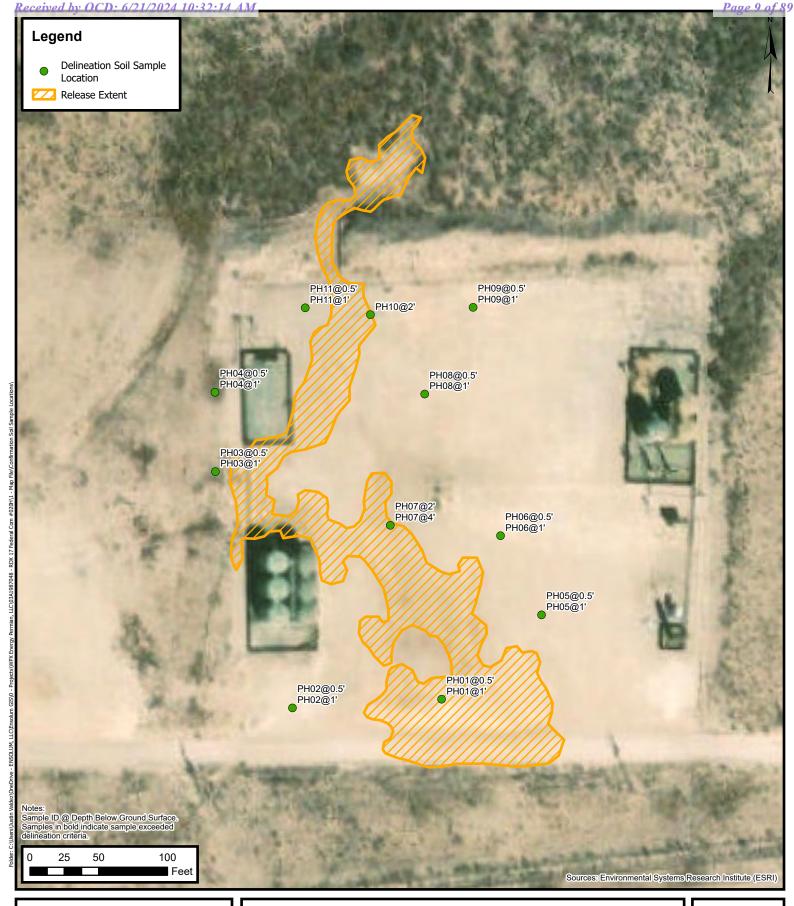
WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Numbers: NAB1422341439 & NAB11706053151 A-17-26S-30E Eddy County, New Mexico





# Delineation Soil Sample Locations WPX Energy Permian, LLC

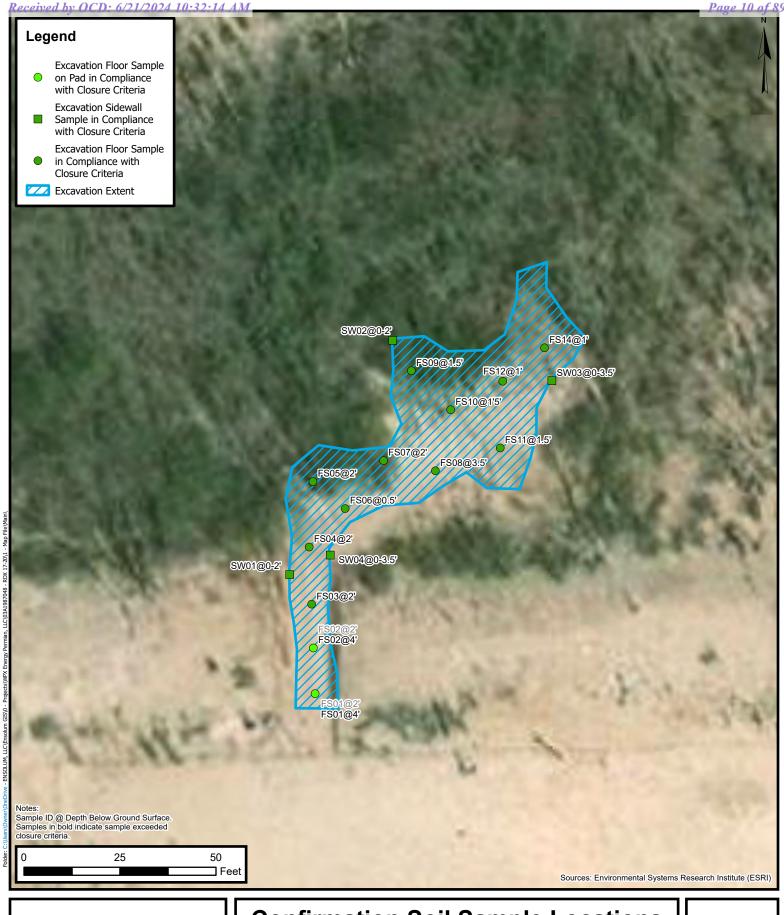
RDX 17 Federal Com #020H Incident Number: NAB1422341439 A-17-26S-30E Eddy County, New Mexico





# **Delineation Soil Sample Locations**

WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB11706053151 A-17-26S-30E Eddy County, New Mexico





# **Confirmation Soil Sample Locations**

WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB11706053151 A-17-26S-30E Eddy County, New Mexico



**TABLES** 



#### TABLE 1

### SOIL SAMPLE ANALYTICAL RESULTS

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB142341439 Eddy County, New Mexico Ensolum Project No. 03A1987048

					insolum Project No. (	U3A 1307 U40				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	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	1,000	2,500	20,000
				Deline	eation Soil Sample A	nalytical Results				
SS01	09/24/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	181
SS01	09/24/2018	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	68.4
SS02	09/24/2018	0.5	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	459
SS02	09/24/2018	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	1,140
SS02	03/12/2024	3	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,350
SS02	03/12/2024	5	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,460
SS02	03/12/2024	7	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	616
SS02	03/12/2024	9	< 0.0250	< 0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	644
SS02	03/12/2024	10	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	385
SS03	09/24/2018	0.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	70.1
SS03	09/24/2018	1	< 0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	119
SS04	09/24/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	119
SS04	09/24/2018	1	< 0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	84.4
PH01	08/22/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
PH01	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.5

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation

standard where applicable.

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#### TABLE 2 **SOIL SAMPLE ANALYTICAL RESULTS**

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB1706053151 **Eddy County, New Mexico** 

	Ensolum Project No. 03A1987048									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	losure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deline	eation Soil Sample A	nalytical Results				
PH01	08/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.5
PH01	08/22/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	69.1
PH02	08/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12.5
PH02	08/22/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	16.4
PH03	08/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	42.4
PH03	08/22/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	113
PH04	08/22/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	22.3
PH04	08/22/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	29.0
PH05	08/22/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
PH05	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.5
PH06	08/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	204
PH06	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	101
PH07	08/22/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	3,200
PH07	08/22/2022	4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	657
PH08	08/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	48.9
PH08	08/22/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	67.7
PH09	08/23/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	121
PH09	08/23/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	74.8
PH10	08/23/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	130
PH11	08/22/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	31.9
PH11	08/22/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	80.0

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation

standard where applicable.

Ensolum 1 of 2



# TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB1706053151 Eddy County, New Mexico

	Ensolum Project No. 03A1967048									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	losure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Exca	vation Soil Sample A	nalytical Results				
FS01	09/27/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	3,060
FS01	3/13/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,070
FS02	09/27/2022	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	3,450
FS02	3/13/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,460
FS03	09/27/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	370
FS04	09/27/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	31.4
FS05	09/27/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	25.7
FS06	09/27/2022	0.5	<0.00201	<0.00402	<50.0	55.1	<50.0	<50.0	55.1	62.2
FS07	09/27/2022	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	29.2
FS08	09/27/2022	3.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.5
FS09	09/27/2022	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	27.0
FS10	09/27/2022	1.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	25.6
FS11	09/27/2022	1.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	30.9
FS12	09/27/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	28.6
FS13	09/27/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	25.2
FS14	09/27/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	21.6
SW01	09/27/2022	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.5
SW02	09/27/2022	0 - 2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.2
SW03	09/27/2022	0 - 3.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	39.7
SW04	09/27/2022	0 - 3.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	237

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

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

Ensolum 2 of 2



APPENDIX A

Form C-141

<u>District I</u> 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 AUG 0 5 2014

Form C-141 Revised August 8, 2011

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

NMOCD ARTESCHAPE with 19.15.29 NMAC.

. 1.			Kele	ase Notifica	tion	and Co	rrective	Actio	n			
NHB14:	1221	11439				<b>OPERA</b>	ГOR		Initia	l Report		Final Report
Name of Co	mpany:	RKI E&P		24/0289		Contact: Zack Laird - Sr. EHS Manager						
						No.: 405-987		405-742-26	596			
Facility Nan	ne: RDX I	ed Com 17-	20H			Facility Typ	e: Oil Well	Pad				
Surface Ow	ner: Feder	al		Mineral Ov	ner l	Federal	Marray 11, 1		API No	.: 30-015-4	1381	
Dariage O W	101, 1 0001							-	1111111			
						OF RE	,					
Unit Letter	Section	Township	Range			South Line	Feet from th	ie East	/West Line	County	TIJ.	
A	17	26S	30E	330	i	North	790		East		Eddy	
	<b>I</b>		Latitu	de 32°02′56.2	5″ N	Longitud	e 103°53′!	50.70″	W			· · · · · · · · · · · · · · · · · · ·
				NATU	JRE	OF REL						
Type of Rele							Release: 700			Recovered: (		
Source of Re	lease; Frac	c Vendor Bac	k-up Bler	ider Tub			lour of Occur			Hour of Disc 0800hrs	covery:	
Was Immedia	te Notice (	Given?				If YES, To	1800hrs (esti	imiaiea)	07/30/14	00001118		
'' = ''			Yes 🗵	No 🔲 Not Req	uired	N/A						
By Whom?					_	Date and F	lour					
Was a Water	course Read			_			olume Impacti	ng the W	atercourse,			
			Yes 🗵	No		N/A						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.									
N/A												
		em and Reme					· · · · · · · · · · · · · · · · · · ·					
Back-up ble	nder isolati	ion valve (che	eck valve)	is thought to have	been	leaking which	ch allowed fra	ac fluid to	o backflow fi	rom active t	olender	to the
back-up and	overflow.	The back-up	) blender ausation	was isolated and r and corrective acti	emove	ed from serv The blende	ice. The Frac	c Vendor, olaced ba	, Weatherioi ick into servi	d Internati	onal, is CLiob	currently
adequately r		ine specific c	ausation i	ind corrective acti	on(a).	The blende	win not be	Piaceu Da	ick iiito sci vi	cc on an ixi	XI JUD	u
	1											
Describe Are	a Affected	and Cleanup A	Action Tal	ren *								
				was recovered fro	m sec	ondary cont	ainment whil	le pumpi	ng and an ad	ditional nea	arly 50	0 Bbls was
				usion of pumping							·	
									•			ļ
I hereby certi	fy that the i	information gi	iven above	is true and comple	te to t	he best of my	knowledge a	nd unders	tand that pur	suant to NM	OCD r	ules and
				nd/or file certain rel								
				ce of a C-141 repore investigate and res								
				tance of a C-141 re								
federal, state,	or local lay	ws and/or regi	ılations.									
	,			-			OIL CO	<u>ONSER</u>	<u>VATION</u>	DIVISIO	<u>)N</u>	
Signature: _	Signature: Signed By Mily Brances											
- Signaturo:	Approved by Environmental Specialist:											
Printed Name	Zack Lair	rd				Approved by	Environment	ai specia	1120.			
Title C TT	XIVIV IIIN											
Title: Sr. EH	S Manager					Approval Da	te: UIII	17	Expiration	Date: N/	1	
E-mail Addre	ess: ZLairda	@RKIXP.com	ı		1	Conditions	of Approval:	Remediat	tion		_	
·		J. 20.00 AK 1904					or Approvai. Rule & Guidel		LIOII	Attached		
Date: 08/05	5/14		Phone:	405-987-2213		1 E1 O.C.D.	Ture & Guider					
	•					SUBMIT RE	MEDIATION	BROPOS	AL NO			120 11

**LATER THAN:** 

Received by OCD: 6/21/2024 10:32:14 AM Form C-141 State of New Mexico Oil Conservation Division Page 2

	Page 17 of 89	9
Incident ID	nAB1422341439	
District RP		
Facility ID		
Application ID		

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.							
19.15.29.7(A) NMAC?								
⊠ Yes □ No								
	If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given to NMOCD on 07/29/2016 by Karolina Blaney via email.							
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 rele	ease has been stopped.							
The impacted area ha	as been secured to protect human health and the environment.							
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.							
All free liquids and re	ecoverable materials have been removed and managed appropriately.							
If all the actions described	d above have <u>not</u> been undertaken, explain why:							
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.							
I hereby certify that the info	rmation 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: EHS Professional							
Signature:	Date: <u>05/10/2023</u>							
email: jim.raley@dvn.con	Telephone: <u>575-689-7597</u>							
OCD Only								
-	Date:							
Received by.	Date.							

	Page 18 of 8	39
Incident ID	nAB1422341439	
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;125</u> (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ 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.					
<ul> <li>         \infty         Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well         \infty         Field data     </li> </ul>	ls.				
☐ Data table of soil contaminant concentration data					
Depth to water determination  Determination of water sources and significant watersources within 16 mile of the lateral extents of the release					
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.

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Page 4 Oil Conservation Division

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Incident ID	nAB1422341439	
District RP		
Facility ID		

Application ID

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Incident ID	nAB1422341439	
District RP		
Facility ID		
Application ID		

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	e 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 com-	firmed 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.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name:					
Signature:	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				
☐ Approved ☐ Approved with Attached Conditions of	Approval				
Signature:	Date:				

Received by OCD: 6/21/2024 10:32:14 AM State of New Mexico
Page 6 Oil Conservation Division

re of New Mexico
Onservation Division

Incident ID
District RP

Incident ID	nAB1422341439
District RP	
Facility ID	
Application ID	

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## Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.							
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.							
· · · · · · · · · · · · · · · · · · ·								
Signature:	Date: <u>05/10/2023</u>							
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date:							
Printed Name:	Title:							

eceived by C	OCD: 6/21/	/2024 10:32	?:14 AM								Pa	ige 22 of 89
<u>District I</u> 1625 N. French <u>District II</u> 311 S. First St.,		ΔΙ	L CONS	ERVATIONSta STRETE TEN	ate of i	New Mex and Natura	ico <b>NM OI</b> l Resources A	L CONS			Fo: Revised Aug	rm C-141 gust 8, 2011
<u>District III</u> 1000 Rio Brazo			EB 27	2017 Oil C		vation Div	101011	FEBu <b>2</b> m7	t <b>20</b> ppy ac	to appropr cordance w	iate Distric	t Office in 29 NMAC.
<u>District IV</u> 1220 S. St. Fran				1220		St. France, NM 875		RECEI	VED			
				ease Notific		<del></del>			VLD			
NAB17	۸/ ۸5:	3151	Reit	ase i tourie	auor	OPERA'			7 Initia	d Danast		inal Danant
Name of Co			y Inc/RK	124628	9	Contact	Karolina Blar		J mun	al Report		inal Report
Address	5315 Bu	ena Vista D				Telephone 1	No. 970 589 074					
Facility Na	me: RDX 1	7-20H			:	Facility Typ	e: Well Pad					
Surface Ow	ner: Feder	ral		Mineral O	wner: ]	Federal			API No	. 30- 015-	41381	
				LOCA	ATION	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We	st Line	County		
A	17	26S	30E	330		FNL	790	FE	L	Eddy		
			La	atitude: 32.0488		Longitud OF REL		3 W				
Type of Rele	ease. Produc	ced Water and	d Oil	14741	ORE	,	Release: 400 Bb	ls	Volum	e Recovere	d: 100 Bb	ls_
Source of Re Vapor Reco							lour of Occurrence	ce	Date and Hour of Discovery			
Was Immedi		Given?			<del></del>	2/10/2017 2/10/2017 - 7:00 hrs MT  If YES, To Whom?						
		$\boxtimes$	] Yes [	No Not Re	equired		Crystal Weaver &	Michael E	Bratcher,	BLM Shell	ly Tucker	
By Whom? I						Date and Hour: 2/10/2017– 2:22hrs MT						
Was a Water	course Reac	ched?	] Yes ⊠	] No		If YES, Volume Impacting the Watercourse. N/A						
If a Waterco	urse was Im	pacted, Descr	ribe Fully.*	* N/A		1						
Describe Car	use of Proble	em and Reme	dial Actio	n Taken.*								
	ter got spille			ose on a charge pure								
Describe Are	ea Affected a	and Cleanup	Action Tak	⟨en.*	<del></del>							
	centrations.	The excavati		with BLM's approves will start the we								
regulations a public health should their or the enviro	all operators n or the environment operations honment. In a	are required to are required to	to report are acceptance adequately OCD accep	e is true and compind/or file certain rece of a C-141 report investigate and repart of a C-141 report ance of a C-141	elease nort by the emediate	otifications a e NMOCD m e contaminat	nd perform correct parked as "Final Fion that pose a the	ctive actior Report" doe reat to grou	ns for release s not release and water	eases which ieve the ope r, surface w	h may enda erator of lia vater, huma	anger ability in health
	Karolina	Blown					OIL CON	SERVA	TION	DIVISI	ON	
Signature:	i annanna	- cruincy				Annroyed Lu	Environmental S	Specialist.		An (	)1x)	ee i
Printed Nam	e: Karolina	Blaney				лиргом <b>еа</b> бу	Environmental S	specialist.	JW		100	
Title: Envir	onmental Sn	necialist				Approval Da	16:3/1/1/T	Fv	niratian.	hate: N	IA	

Conditions of Approval:

Date: 2/24/2017 Phone: 970-589-0743 \* Attach Additional Sheets If Necessary

E-mail Address: Karolina.blaney@wpxenergy.com

2RP-4132

Attached 💢

Received by OCD: 6/21/2024 10:32:14 AM Form C-141 State of New Mexico Oil Conservation Division Page 2

	Page 23 of 8	9
ncident ID	nAB1706053151	
District RP		
acility ID		
Application ID		

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? OCD on 07/29/2016 by Karolina Blaney via email.
L	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
Per 19 15 29.8 B. (4) NM	AC 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 at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigation	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Jim Raley	Title: <u>EHS Professional</u>
Signature:	Date: <u>05/10/2023</u>
email: jim.raley@dvn.cor	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

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Incident ID	nAB1706053151	
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;125</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> </ul>	ls.

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.

☐ Laboratory data including chain of custody

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District RP		
Facility ID		
Application ID		

	Page 26 of 8	9
Incident ID	nAB1706053151	
District RP		
Facility ID		
Application ID		

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan
Remediation I fan Checknist. Each of the following tiems musi v	e included in the plan.
Detailed description of proposed remediation technique	
Scaled sitemap with GPS coordinates showing delineation poin	ts
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 times)	neline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be con	ifirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	te to the best of my knowledge and understand that pursuant to OCD
	certain release notifications and perform corrective actions for releases
which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate	
surface water, human health or the environment. In addition, OCD	
responsibility for compliance with any other federal, state, or local l	
responsibility for compliance with any other redetal, state, or local i	aws and of fogulations.
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
ciidii	receptione.
OCD Only	
Received by:	Date
Received by.	Date:
Approved	Approval
Signature:	Date:

Received by OCD: 6/21/2024 10:32:14 AM Form C-141 State of New Mexico Page 6

Oil Conservation Division

Incident ID nAB1706053151 District RP Facility ID Application ID

## Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.							
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.							
· · · · · · · · · · · · · · · · · · ·								
Signature:	Date: <u>05/10/2023</u>							
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date:							
Printed Name:	Title:							



**APPENDIX B** 

Referenced Well Records





2007 107 107 101 1: SQ

NOIL	OSE POD NUMBE C-4068 POD I WELL OWNER NA							OSE FILE NUI C-4068 PHONE (OPTI				
OCA	RKI Exploration and Production, LLC						1110112 (0111	J				
VELL L	WELL OWNER MAILING ADDRESS 3500 One Williams Center MD 35,							CITY Tulsa		STATE OK	74172	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION			GREES 32				* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	<b>O</b> ND	
ERAI	(FROM GPS)		NGITUDE	103 53 39.23 W			* DATUM REG	QUIRED: WGS 84				
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILABLE NW/4SW/4NW/4 Section 16, Township 26S, Range 30 E, N.M.P.M.											
	LICENSE NUMBE	R	NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLING COM	PANY	***************************************
	1249			Jac	ckie D. Atkin	s			Atkins Eng	ineering As	sociates, Ir	iC.
	DRILLING START	ED	DRILLING ENDED	DEPTH OF COMI	PLETED WELL (	FT)		LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNT	ERED (FT)	
	5/11/2017	•	5/12/2017		n/a			125		ne encount		
	COMPLETED WEI	LL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	OW (UNCO	NFINED)		STATIC WATER LEV	ÆL IN COMP n/a		.L (FT)
ION				·						117 44	Prop. 3	and of the last
MAT	DRILLING FLUID		✓ AIR		MUD ADDITIVES – SPECIFY:			R - SPECIFY: hollow stem auger v		auger wit		
FOR							ER – SPECIFY:	nonow stem	auger with	u ini totai	y ::	
CASING INFORMATION	DEPTH (feet	togl)	BORE HOLE DIAM (inches)	(include eac	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches)	THICKNESS		SLOT SIZE (inches)
C &	0	125	±6.625		n/a		n/a		n/a	n/a		n/a
ING											Un Sub	Carrier Carrier S
2. DRILLING &											25-142	
AL	DEPTH (feet	bgl)	BORE HOLE DIAM. (inches)		`ANNÚLAR S EL PACK SIZI				AMOUNT (cubic feet)		METHOL PLACEM	
ERI	n/a	n/a	n/a			n/a			n/a		n/a	
3. ANNULAR MATERIAL												
(")												*****
FOR	OSE INTERNAL	USE		•	•			WR-20	WELL RECORD	& LOG (Vei	rsion 10/29	/15)
····	NUMBER (	١	8004		POD N	UMBER	1		NUMBER (0	06	777	7
LOC	ATION C	$\Im \mathcal{C}$	S. BOE	illor.	<u>1:3:1</u>		<u>-</u>		EXP	۷	PAGE 1	OF 2

	DEPTH (	feet hgl)		A CONTRACTOR OF THE CONTRACTOR				ESTIM	ATED		
	DEPTH (feet bgl)  FROM TO		THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES				YIELD WAT BEAR ZONES	FOR ER- RING		
	0	0 5 5 white caliche small gravel					✓ N				
WELL	5	5 20 15 light brown fine sand with small gravel				Y	√ N				
	20	40	20		Y	√ N					
	40	50	10	white tannish sand/sandstone		Y	✓ N				
	50	90	40	tannish very fine sandstone		Y	✓ N				
	90	110	20	fine reddish tan sandstone		Y	✓ N				
	110 125		15	fine reddish sandstone with small layers of reddish clay		Y	✓ N				
OF						Y	N				
4. HYDROGEOLOGIC LOG OF WELL						Y	N				
						Y	N				
						Y	N				
						Y	N				
						Y	N				
						Y	N	17 5 B 17 D B	ر همچ کار کار در در میسا دورون کارکان میسا		
						Y	N	11.5			
						Y	N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	911		
						Y	N	.,			
						Y	N		2 7 7 8 9 2 1 2 3 1		
						Y	N		176.1 176.1		
						Y	N	+ 5	ggar <sup>an a</sup> taug paga atau <sup>m</sup> garan atau ti <sub>ata</sub> atau		
					<u> </u>	Y	N	_/1 	N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:								_		
	PUMI	• □A	WELL.	YIELD	(gpm):	0.0	0				
NOISI	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										
TEST; RIG SUPERVISI	MISCELLANEOUS INFORMATION: Log adapted from Souder Miller & Associates oversight. Boring to determine presence/absence of water. Boring advanced with combination of air rotary and hollow stem auger tooling. No water encountered. Boring not converted to well. Boring abandoned see plugging record.										
TES	PRINT NAM	IE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	NSTRUCTI	ON OT	HER TH	AN LICE	NSEE:		
જ	Guadalupe "Lupe" Leyba, Shane Eldridge										
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 20 DAYS AFTER COMPLETION OF WELL DRILLING:										
6. SIGN		5ach		5/17/2017			_				
		SIGNAT	1.00	DATE							
FOR	OSE INTERN	IAL USE		WR-20 W	ELL RECO	RD & L	OG (Ver	sion 10/29	/2015)		
FILE	NUMBER		-406	POD NUMBER TRN NUM	IBER (	00	07	22			
LOC	CATION	$\sim 20$	S.30F	E-110-103-1	EXP	7		PAGE 2	OF 2		

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

606777

File Nbr:

C 04068

Well File Mbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE RKI EXPLORATION AND PRODUCTION LLC 3500 ONE WILLIAMS CENTER MD 35 TULSA, OK 74172

### Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

(575) 622 - 6521

drywell



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: SS02	Date: 3/12/24	
			NI	C	0 1	Site Name: RDX 17 Federal Com #020H				
						Incident Number: NAB1422341439				
						Job Number: 03A1987048				
		LITHOL	.OGI	C / SOIL S	SAMPLING	Logged By: Israel Estrella	Method: Backhoe			
Coord	inates: 32	2.04905,	-103.8	39746		Hole Diameter: 3'	Total Depth: 10'			
	Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	ТРН (ррт)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D			N	SS02	0	0	CCHE	Caliche - Tan, No odor, No	staining	
D			N	SS02	1	1				
М	2,576		N	SS02	2	2	SP-SM	Sand/Silt - Dark brown, ti stain	-	
М	1,708		N	SS02	3 _	3				
D	1,181		N	SS02	4 _	4	SM	Sand - Tan, trace gravel, no	o odor no staining	
D	1,092		N	SS02	5 <u> </u>	5				
D	862		N	SS02	6 <u>-</u>	6				
D	520		N	SS02	7 _	7				
D	1,108		N	SS02	8	8				
D	644		N	SS02	9	9				
D	414	64	N	SS02	10	10	Depth =	- 10'		

Total Depth = 10'



APPENDIX D

Photographic Log



### **Photographic Log**

WPX Energy Permian, LLC RDX 17 Federal Com #020H NAB1422341439 & NAB1706053151





Photograph 1 Date:3/12/24

Description: Delineation sampling

View: North

Photograph 2 Date:3/12/24

Description: Delineation sampling

View: North





Photograph 3 Date: 3/13/24 Photograph 4 Date: 3/13/24

Description: Excavation

View: South

Description: Excavation

View: South



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Ensolum, LLC

Project Name: RDX 17 #20

Work Order: E403133

Job Number: 01058-0007

Received: 3/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/19/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20

Workorder: E403133

Date Received: 3/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 8:00:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

Ensolum, LLC	Project Name:	RDX 17 #20	Donoutoda
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/19/24 13:13

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS02-3'	E403133-01A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-5'	E403133-02A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-7'	E403133-03A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

#### SS02-3' E403133-01

		E405155-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		83.2 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2412009
Chloride	2350	20.0	1	03/18/24	03/19/24	

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

#### SS02-5'

		E403133-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		77.9 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2412009
Chloride	1460	20.0	1	03/18/24	03/19/24	



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

#### SS02-7'

#### E403133-03

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	Analyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		86.2 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2412009
Chloride	616	20.0	1	03/18/24	03/19/24	



		QC 50	u 11111116	iry Dat	a				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	01	DX 17 #20 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	A	shley Gioven	go				3/19/2024 1:13:27PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411110-BLK1)							Prepared: 0	3/14/24 /	Analyzed: 03/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			
LCS (2411110-BS1)							Prepared: 0	3/14/24 A	Analyzed: 03/18/24
Benzene	4.94	0.0250	5.00		98.7	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
o,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.4	70-130			
Matrix Spike (2411110-MS1)				Source:	E403125-	04	Prepared: 0	3/14/24 A	Analyzed: 03/18/24
Benzene	4.92	0.0250	5.00	ND	98.3	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133			
Toluene	4.92	0.0250	5.00	ND	98.3	61-130			
-Xylene	4.82	0.0250	5.00	ND	96.4	63-131			
o,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			
Matrix Spike Dup (2411110-MSD1)				Source:	E403125-	04	Prepared: 0	3/14/24 A	Analyzed: 03/18/24
Benzene	5.10	0.0250	5.00	ND	102	54-133	3.65	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	3.42	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131	3.45	20	

10.0

15.0

8.00

0.0500

0.0250

ND

ND

102

101

93.7

63-131

63-131

70-130

3.35

3.39

20

20



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.2

15.2

7.50

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			3/1	9/2024 1:13:27PM
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2411110-BLK1)							Prepared: 03	3/14/24 Anal	yzed: 03/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
LCS (2411110-BS2)							Prepared: 03	3/14/24 Anal	yzed: 03/18/24
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
urrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			
Matrix Spike (2411110-MS2)				Source:	E403125-0	04	Prepared: 03	3/14/24 Anal	yzed: 03/18/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2411110-MSD2)				Source:	E403125-0	04	Prepared: 03	3/14/24 Anal	yzed: 03/18/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	0.170	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

Carisbad NM, 88220		Project Manage	r: As	sniey Gioveng	go				3/19/2024 1:13:2/PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411130-BLK1)							Prepared: 0	3/15/24 Aı	nalyzed: 03/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
LCS (2411130-BS1)							Prepared: 0	3/15/24 Aı	nalyzed: 03/16/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
urrogate: n-Nonane	47.5		50.0		95.0	50-200			
Matrix Spike (2411130-MS1)				Source:	E403118-0	)2	Prepared: 0	3/15/24 Aı	nalyzed: 03/16/24
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0	)2	Prepared: 0	3/15/24 Aı	nalyzed: 03/16/24
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20	
Gurrogate: n-Nonane	43.2		50.0		86.4	50-200			



258

258

LCS (2412009-BS1)

LCS Dup (2412009-BSD1)

Chloride

Chloride

Prepared: 03/18/24 Analyzed: 03/18/24

Prepared: 03/18/24 Analyzed: 03/18/24

20

90-110

90-110

0.191

103

103

#### **QC Summary Data**

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	al Parks Hwy Project Number: 01058-0007					Reported: 3/19/2024 1:13:27PM			
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412009-BLK1)						]	Prepared: 0	3/18/24 A	Analyzed: 03/18/24
Chloride	ND	20.0							

250

250

20.0

20.0

OC 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**

ſ	Ensolum, LLC	Project Name:	RDX 17 #20	
١	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/19/24 13:13

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



of _	eceivea
ogram SDWA	] by
SDWA	00
RCRA	D: 6/2
TX	1/2024
	Received by OCD: 6/21/2024 10:32:14 AM
	AM

Report d	nt: En	2000	, ,		Bill To		-		Lab U	sa Or	alv				TA	т	EDA D	rogram
Project:	RDX 17 #2	20			Attention: Jim Raley		Lab M				Numbe	or	10	2D	3D	Standard	CWA	SDWA
	Manager: Ash		ngo		Address: 5315 Buena Vist	ta Dr	FU	0313	33		58-		10	20	30	X	CVVA	JUVVA
	3122 Nation	7.7			City, State, Zip: Carlsbad		-	,,,,				Metho	d	_	-			RCRA
	te, Zip: Carlsb				Phone: (575)689-7597	IIII, GOLLO	1	5		Tital	1	TVICTIO	Ī					Henry
	575-988-0055				Email: jim.raley@dvn.cor	n											State	
	giovengo@en		m		Email: Jim. raiey@dvii.com						0		5			NMI CO	UT AZ	TX
Report d							ac/	8021	3260	010	300.		N N		¥	×	01 7.2	111
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Jashar	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос		GDOC		Remarks	
10:13	3/12/2024	Soil	1		SS02 - 3'								x					
10:31	3/12/2024	soil	1		SS02 - 5'	Z							х					
10:57	3/12/2024	Soil	1		SS02 - 7'	3							х					
					um.com, agiovengo@ensolum.o			chami	lton@							m.com	y they are san	npled or
	of collection is cor									receive	ed packed	in ice at an	avg ten	np abov	e 0 but l	ess than 6 °C on sub	sequent days.	
Relinquish Relinquish	ed by: (Signature ed by: (Signature under the by: (Signature ed by: (Signature	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	3	13-24 19 13-24 2	8:35 Middle Gu	3 14	.24 T	ime 100 ime 170 ime	0	T1 AVG	eived o	°c	Y T2 {	)/ N		<u>T3</u>		
ample Mat	rix: S - Soil, Sd - Sol	id, Sg - Sludg	ge, A - Aqueo	us, O - Other		Containe	r Type:	g - glas	s, p - 1	ooly/p	olastic,	ag - amb	oer gla	ass, v	- VOA			
Note: Sam	oles are discarde	d 30 days a	fter results	are reported un	less other arrangements are made. Ha	zardous samples will be	returne	ed to clie	ent or o	ooly/p	olastic, a	ag - amb					alysis of the	



#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Printed: 3/14/2024 2:59:34PM

	Ensolum, LLC D	ate Received:	03/14/24	08:00	Work Order ID:	E403133
Phone:	(575) 988 <b>-0</b> 055	ate Logged In:	03/13/24	17:38	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com D	ue Date:	03/20/24	17:00 (4 day TAT)		
Chain of C	ustody (COC)					
	sample ID match the COC?		Yes			
	number of samples per sampling site location match	the COC	Yes			
3. Were sar	nples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	COC complete, i.e., signatures, dates/times, requested	i analyses?	No	_		
	samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes	,	Commen	ts/Resolution
	rn Around Time (TAT)				Client manne more mot am	COC Added
6. Did the (	COC indicate standard TAT, or Expedited TAT?		Yes		Client name was not on	
Sample Co	·				Ensolum on COC as cli	ent per Lynn per
	mple cooler received?		Yes		text message	
3. If yes, w	as cooler received in good condition?		Yes			
). Was the	sample(s) received intact, i.e., not broken?		Yes			
10. Were cı	stody/security seals present?		No			
11. If yes, v	vere custody/security seals intact?		NA			
1	sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re minutes of sampling sible ice, record the temperature. Actual sample ter	ceived w/i 15	Yes			
Sample Co	ntainer_					
14. Are aqu	eous VOC samples present?		No			
15. <b>Are V</b> O	C samples collected in VOA Vials?		NA			
l 6. Is the h	ead space less than 6-8 mm (pea sized or less)?		NA			
17. Was a tr	rip blank (TB) included for VOC analyses?		NA			
18. Are nor	a-VOC samples collected in the correct containers?		Yes			
19. Is the ap	propriate volume/weight or number of sample container	collected?	Yes			
<u>Field Labe</u>	<u>L</u>					
	eld sample labels filled out with the minimum inform	ation:	•			
	nple ID? e/Time Collected?		Yes			
	lectors name?		Yes Yes			
Sample Pro			103			
	e COC or field labels indicate the samples were prese	erved?	No			
	nple(s) correctly preserved?		NA			
	Iteration required and/or requested for dissolved meta	als?	No			
Multiphase	Sample Matrix					
	e sample have more than one phase, i.e., multiphase?		No		,	
	loes the COC specify which phase(s) is to be analyze		NA			
_	t Laboratory					
	the contract is get sent to a subcontract laboratory?		No			
18 Aracam	ubcontract laboratory specified by the client and if so		NA	Subcontract Lab	o: NA	
	abconduct laboratory specified by the chefit and it so					

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Ensolum, LLC

Project Name: RDX 17 #20

Work Order: E403134

Job Number: 01058-0007

Received: 3/14/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 3/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/22/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20

Workorder: E403134

Date Received: 3/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 8:00:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

Γ	Ensolum, LLC	Project Name:	RDX 17 #20	D out. d.
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/22/24 10:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-9'	E403134-01A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-10'	E403134-02A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.

Surrogate: n-Nonane

Chloride

Anions by EPA 300.0/9056A

#### Sample Data

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

#### SS02-9' E403134-01

#### Reporting Dilution Analyte Result Limit Prepared Analyzed Notes Analyst: EG Batch: 2411110 Volatile Organics by EPA 8021B mg/kg mg/kg 03/14/24 03/19/24 ND 0.0250 Benzene 03/14/24 03/19/24 Ethylbenzene ND 0.0250 03/19/24 1 03/14/24 Toluene ND 0.025003/19/24 ND 0.0250 1 03/14/24 o-Xylene 1 03/14/24 03/19/24 ND 0.0500p,m-Xylene ND 0.0250 03/14/24 03/19/24 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 95.4 % 70-130 03/14/24 03/19/24 Analyst: EG Batch: 2411110 mg/kg mg/kg Nonhalogenated Organics by EPA 8015D - GRO ND 03/14/24 03/19/24 Gasoline Range Organics (C6-C10) 20.0 03/14/24 03/19/24 Surrogate: 1-Chloro-4-fluorobenzene-FID 93.1 % 70-130 mg/kg mg/kg Analyst: KM Batch: 2411130 Nonhalogenated Organics by EPA 8015D - DRO/ORO 03/15/24 03/16/24 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 03/15/24 03/16/24 Oil Range Organics (C28-C36)

79.4 %

mg/kg

20.0

mg/kg

644

50-200

03/15/24

03/18/24

Analyst: IY

1

03/16/24

03/19/24

Batch: 2412009

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

#### SS02-10'

		E403134-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		86.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2412009
Chloride	385	40.0	2	03/18/24	03/19/24	



		QC 50	41111110	ny Dat							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	RDX 17 #20 01058-0007 Ashley Giovengo					<b>Reported:</b> 3/22/2024 10:32:20AM		
		Volatile O	rganics b	y EPA 802	21B				Analyst: EG		
Analyte		Reporting	Spike	Source		Rec		RPD			
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2411110-BLK1)							Prepared: 0	3/14/24 A	nalyzed: 03/18/24		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130					
LCS (2411110-BS1)							Prepared: 0	3/14/24 A	analyzed: 03/18/24		
Benzene	4.94	0.0250	5.00		98.7	70-130					
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130					
Toluene	4.95	0.0250	5.00		99.0	70-130					
o-Xylene	4.90	0.0250	5.00		98.0	70-130					
p,m-Xylene	10.0	0.0500	10.0		100	70-130					
Total Xylenes	14.9	0.0250	15.0		99.3	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.4	70-130					
Matrix Spike (2411110-MS1)				Source:	E403125-	04	Prepared: 0	3/14/24 A	analyzed: 03/18/24		
Benzene	4.92	0.0250	5.00	ND	98.3	54-133					
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133					
Toluene	4.92	0.0250	5.00	ND	98.3	61-130					
o-Xylene	4.82	0.0250	5.00	ND	96.4	63-131					
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131					
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131					
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130					
Matrix Spike Dup (2411110-MSD1)				Source:	E403125-	04	Prepared: 0	3/14/24 A	analyzed: 03/18/24		
Benzene	5.10	0.0250	5.00	ND	102	54-133	3.65	20			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	3.42	20			
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20			

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

99.8

102

101

63-131

63-131

63-131

70-130

3.45

3.35

3.39

20

20

20



o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

4.99

10.2

15.2

7.50

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			3/22	/2024 10:32:20AM			
Nonhalogenated Organics by EPA 8015D - GRO Analyst: EG												
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes			
Blank (2411110-BLK1)							Prepared: 0	3/14/24 Analy	zed: 03/18/24			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130						
LCS (2411110-BS2)							Prepared: 0	3/14/24 Analy	zed: 03/18/24			
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130						
Matrix Spike (2411110-MS2)				Source:	E403125-	04	Prepared: 0	3/14/24 Analy	zed: 03/18/24			
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130						
Matrix Spike Dup (2411110-MSD2)				Source:	E403125-	04	Prepared: 0	3/14/24 Analy	zed: 03/18/24			
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	0.170	20				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130						

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			3/.	22/2024 10:32:20AI
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411130-BLK1)							Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
CS (2411130-BS1)							Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
urrogate: n-Nonane	47.5		50.0		95.0	50-200			
Matrix Spike (2411130-MS1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
urrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20	
urrogate: n-Nonane	43.2		50.0		86.4	50-200			

LCS Dup (2412009-BSD1)

Chloride

258

#### **QC Summary Data**

Ensolum, LLC 3122 National Parks Hwy		Project Name: RDX 17 #20 Project Number: 01058-0007						Reported:					
Carlsbad NM, 88220	,							3/22/2024 1					
		Anions	by EPA 3	300.0/9056 <i>E</i>	4				Analyst: IY				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2412009-BLK1)							Prepared: 0	3/18/24 An	nalyzed: 03/18/24				
Chloride	ND	20.0											
LCS (2412009-BS1)							Prepared: 0	3/18/24 An	nalyzed: 03/18/24				
Chloride	258	20.0	250		103	90-110							

250

20.0

103

90-110

0.191

#### 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.



Prepared: 03/18/24 Analyzed: 03/18/24

20

#### **Definitions and Notes**

ſ	Ensolum, LLC	Project Name:	RDX 17 #20	
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/22/24 10:32

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



of \

Report d	ue by:	SOLUTT	/			Bill To				Lab U	se O	nly				TA	EPA Program	rogram	
Project:	RDX 17 #	#20			Att	ention: Jim Raley		Lab W				6 Number 058-0007		1D 2D		3D	Standard	CWA	SDWA
Project N	Manager: Ash	ley Giove	ngo		Add	dress: 5315 Buena Vista Dr		F 40	231	134	ne	50	-0007				x		
Address:	3122 Nation	al Parks H	lwy		City	y, State, Zip: Carlsbad NM, 882	20	Analysis and Meth					nd Metho	d					RCRA
City, Stat	te, Zip: Carlsb	ad NM, 8	8220		Pho	one: (575)689-7597		þý								-			
Phone:	575-988-0055				Em	ail: jim.raley@dvn.com		88										State	
Email: a	giovengo@en	solum.co	m		7			1 0/0				0.		ΣZ			NM CO	UT AZ	TX
Report d	ue by:							JQ/0	802	8260	0109	300				¥	×		
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		ВСБОС		GDOC		Remarks	
11:33	3/12/2024	Soil	1			SS02 - 9'	1							х			Run only	If SSO2 - 7' is >60	Oci 100 TPH
11:37	3/12/2024	Soil	1			SS02 - 10'	2							х			Run only	If SSO2 - 7' is >60	Oct 100 TPH
									+										
Addition	nal Instruction	s: Plea	se CC: cb	urton@ensol	um.com,	agiovengo@ensolum.com, jim	.raley@dvr	n.com, c	ham	ilton(	ens	olum	.com, ies	strell	la@e	nsolu	m.com		
						t tampering with or intentionally mislabelli Sampled by: Israel Estrella	ng the sample lo	ocation,			10000						eceived on ice the da less than 6 °C on sub		pled or
date or time of collection is considered fraud and may be grounds for legal action.  Relinquished by: (Signature)  Date  Time  Received by: (Signature)  3/13/24  8:35  Willle Gull					middle (out	3-13-	24 Tin	00	2	Lab Use Only Received on ice: (Y)/ N									
Mic	Relinquished by: (Signature)  Date  3-13-14   Time   Received by: (Signature)   Time   Control of the control o			A.A.	3.13.24 [70				T1			T2			<u>T3</u>				
Relinquish	ed by: (Signature	2)}	Date	3.13.24 2300 Received by: (Signature)				या त	980	00	AVG Temp °C								
Sample Ma	trix: S - Soil, Sd - So	lid, Sg - Slud	ge, A - Aque	ous, O - Other		,	Containe	r Type: g	- glas	s, p -			c, ag - amb	oer gl	lass, v	- VOA	4		
Note: Sam	ples are discarde	d 30 days a	fter results	are reported ur	less other a	rrangements are made. Hazardous s	amples will be	returned	to cli	ent or	dispos	ed of	at the clien	t expe	ense.	The re	port for the ana	lysis of the	above
samples is	applicable only t	o those sar	nples recei	ved by the labor	atory with t	his COC. The liability of the laboratory	is limited to t	he amou	nt paid	for or	the r	eport.							



envirotech

Printed: 3/14/2024 4:34:31PM

#### **Envirotech Analytical Laboratory**

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. Work Order ID: E403134 Ensolum, LLC Date Received: 03/14/24 08:00 Client: Date Logged In: Logged In By: Alexa Michaels (575) 988-0055 Phone: Due Date: 03/20/24 17:00 (4 day TAT) Email: a.giovengo@ensolum.com Chain of Custody (COC) Yes 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier No 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) Client name was not on COC. Added 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Ensolum on COC as client per Lynn per Sample Cooler Yes text message. See COC for Client remarks 7. Was a sample cooler received? 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 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? 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 filteration 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 Subcontract Lab: NA 29. Was a subcontract laboratory specified by the client and if so who? NA **Client Instruction** 

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

te E

envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

Ensolum, LLC

Project Name: RDX 17 #20

Work Order: E403142

Job Number: 01058-0007

Received: 3/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/20/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/20/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20 Workorder: E403142

Date Received: 3/15/2024 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2024 6:45:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

boratory Director Laboratory Administrator

Office: 505-632-1881

Raina Schwanz

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#### **Sample Summary**

Γ	Ensolum, LLC	Project Name:	RDX 17 #20	D and all
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/20/24 13:32

Client Sample ID	Lab Sample ID Matr	ix Sampled	Received	Container
FS01-4'	E403142-01A Soi	03/13/24	03/15/24	Glass Jar, 2 oz.
FS02-4'	E403142-02A Soi	03/13/24	03/15/24	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

#### FS01-4' E403142-01

		E403142-01				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: EG		Batch: 2411141
Benzene	ND	0.0250	1	03/15/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/15/24	03/19/24	
Toluene	ND	0.0250	1	03/15/24	03/19/24	
o-Xylene	ND	0.0250	1	03/15/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/15/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/15/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: EG		Batch: 2411141
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2412002
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		69.5 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412021
Chloride	1070	20.0	1	03/18/24	03/20/24	

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

### FS02-4'

		E403142-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411141
Benzene	ND	0.0250	1	03/15/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/15/24	03/19/24	
Toluene	ND	0.0250	1	03/15/24	03/19/24	
o-Xylene	ND	0.0250	1	03/15/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/15/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/15/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: EG		Batch: 2411141
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2412002
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		74.8 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2412021
Chloride	1460	20.0	1	03/18/24	03/20/24	



		QC 50	41111110	ny Dat	u				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 17 #20 058-0007 shley Gioven	go				<b>Reported:</b> 3/20/2024 1:32:41PM
		Volatile O	rganics b	y EPA 802	21B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411141-BLK1)							Prepared: 0	3/15/24 A	analyzed: 03/19/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			
LCS (2411141-BS1)							Prepared: 0	3/15/24 A	analyzed: 03/19/24
Benzene	4.94	0.0250	5.00		98.7	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	4.91	0.0250	5.00		98.3	70-130			
o,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			
Matrix Spike (2411141-MS1)				Source:	E403140-	10	Prepared: 0	3/15/24 A	analyzed: 03/19/24
Benzene	4.93	0.0250	5.00	ND	98.6	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	4.95	0.0250	5.00	ND	99.1	61-130			
p-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
Matrix Spike Dup (2411141-MSD1)				Source:	E403140-	10	Prepared: 0	3/15/24 A	analyzed: 03/19/24
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.35	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	1.82	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.59	20	

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

100

102

102

63-131

63-131

63-131

70-130

2.12

1.94

2.00

20

20

20



o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

5.02

10.2

15.2

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			3.	/20/2024 1:32:41PM	
	Non	Nonhalogenated Organics by EPA 8015D - GRO						Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2411141-BLK1)							Prepared: 03	3/15/24 Ana	alyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130				
LCS (2411141-BS2)							Prepared: 03	3/15/24 Ana	alyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130				
Matrix Spike (2411141-MS2)				Source:	E403140-	10	Prepared: 03	3/15/24 Ana	alyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130				
Matrix Spike Dup (2411141-MSD2)				Source:	E403140-	10	Prepared: 03	3/15/24 Ana	alyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	0.00294	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130				

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			-	3/20/2024 1:32:41PN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412002-BLK1)							Prepared: 0	3/18/24 An	alyzed: 03/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	37.9		50.0		75.8	50-200			
LCS (2412002-BS1)							Prepared: 0	3/18/24 An	alyzed: 03/18/24
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
urrogate: n-Nonane	36.3		50.0		72.6	50-200			
Matrix Spike (2412002-MS1)				Source:	E403140-0	04	Prepared: 0	3/18/24 An	alyzed: 03/18/24
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
urrogate: n-Nonane	40.0		50.0		80.0	50-200			
Matrix Spike Dup (2412002-MSD1)				Source:	E403140-0	04	Prepared: 0	3/18/24 An	alyzed: 03/18/24
Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.1	38-132	1.61	20	
Gurrogate: n-Nonane	38.5		50.0		76.9	50-200			

Chloride

# **QC Summary Data**

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy Carlsbad NM, 88220	Project Number: Project Manager:	01058-0007 Ashley Giovengo	3/20/2024 1:32:41PM

Anions by EPA 300.0/9056A

		Anions	by EPA 3	00.0/9056	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412021-BLK1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Chloride	ND	20.0							
LCS (2412021-BS1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2412021-BSD1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24

250

20.0

100

90-110

0.512

251

## 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**

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/20/24 13:32

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



of

Report d				,		Bill To Lab Use Only						EPA P	rogram							
Project:	RDX 17 #				7 1-	tention: Jim Raley		E 4	NO#		_	Job I	Number		1D 2D 3D Standard				CWA	SDW
	Manager: Ashl					Address: 5315 Buena Vista Dr		E4	03	14			158-0					X		
		onal Parks Hwy City, State, Zip: Carlsbad NM, 88220			1	Analy	sis and I	Metho	d					RCF						
1	, State, Zip: Carlsbad NM, 88220		IM, 88220			none: (575)689-7597		1	yd C									4		
	575-988-0055				Er	nail: jim.raley@dvn.com		1 2	ORC									Secretary 1	State	I I
	giovengo@ens	olum.co	m					1 6	ORO.	8021	09	0	0.00		ΣZ		¥	NM CO	UT AZ	TX
Report d	ue by:						1	1	RO/	oy 80	y 82	9 60	de 30		0			×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		СВОС		Remarks	
11:06	3/13/2024	Soil	1			FS01 - 4'	1								x					
11:08	3/13/2024	Soil	1			FS02 - 4'	2								х					
Addition	al Instruction	s: Pleas	e CC: cbı	ırton@ensolı	ım.com,	, agiovengo@ensolum.com, jir	n.raley@dvr	ı.com,	, cha	ımilte	on@	enso	olum.co	om, ies	strella	a@er	nsolum	n.com		
						at tampering with or intentionally mislabe	ling the sample lo	ocation,										eived on ice the day	and the second second	
	of collection is con	17711000				Sampled by: Israel Estrella	14.7	1-				receive	ed packed in	nce at an				4	sequent days.	
_	ed by: (Signature)	1	3/1	4/24 9	=15	Received by: (Signature)  MCULL Guy	3-14:	24	O	915	5	Rece	eived or	ice:		N	e Only			
Mice		me	Date 3	14-24 Time	530	Received by: (Signature)	Date,	24	O/	45	5	T1			<u>T2</u>			<u>T3</u>		
elinquishe	ed by: (Signature)	1	Date	Time		Received by: (Signature)	Date	1	Time			AVG	Temp <sup>c</sup>	c 4	-					
mnla Mat	rix: S - Soil, Sd - Soli	d Se - Slude	ο Λ - Λαμοο	or O Other			Containe	Tuna	4	.1		_			OT A L Y		1101			



envirotech

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Printed: 3/15/2024 12:34:07PM

Instructions: Please take note of any NO checkmarks.

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

Client: Ensolum, LLC D	ate Received:	03/15/24	06:45	Work Order ID:	E403142
Phone: (575) 988-0055	ate Logged In:	03/14/24	17:39	Logged In By:	Alexa Michaels
mail: a.giovengo@ensolum.com D	ue Date:	03/21/24	17:00 (4 day TAT)		
Chain of Custody (COC)					
. Does the sample ID match the COC?		Yes			
. Does the number of samples per sampling site location match	the COC	Yes			
. Were samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was the COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
<ol> <li>Were all samples received within holding time?</li> <li>Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.</li> </ol>	e field,	Yes		Commer	ts/Resolution
Sample Turn Around Time (TAT)					
. Did the COC indicate standard TAT, or Expedited TAT?		Yes			
ample Cooler					,
. Was a sample cooler received?		Yes			
. If yes, was cooler received in good condition?		Yes			
. Was the sample(s) received intact, i.e., not broken?		Yes			
0. Were custody/security seals present?		No			
1. If yes, were custody/security seals intact?		NA			
Was the sample received on ice? If yes, the recorded temp is 4°C, i.e     Note: Thermal preservation is not required, if samples are reminutes of sampling	eceived w/i 15	Yes			
13. If no visible ice, record the temperature. Actual sample te	mperature: 4°	<u>C</u>			
Sample Container					
4. Are aqueous VOC samples present?		No			
5. Are VOC samples collected in VOA Vials?		NA			
6. Is the head space less than 6-8 mm (pea sized or less)?		NA			
7. Was a trip blank (TB) included for VOC analyses?		NA			
8. Are non-VOC samples collected in the correct containers?		Yes			
9. Is the appropriate volume/weight or number of sample container	s collected?	Yes			
field Label					
0. Were field sample labels filled out with the minimum inform Sample ID?	iation:	Yes			
Date/Time Collected?		Yes			
Collectors name?		Yes			
ample Preservation					
1. Does the COC or field labels indicate the samples were presented	erved?	No			
2. Are sample(s) correctly preserved?		NA			
4. Is lab filteration required and/or requested for dissolved met	als?	No			
<u> Jultiphase Sample Matrix</u>					
6. Does the sample have more than one phase, i.e., multiphase?	•	No			
7. If yes, does the COC specify which phase(s) is to be analyze	d?	NA			
ubcontract 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		NA	Subcontract Lab: NA		



**APPENDIX F** 

**NMOCD Notifications** 

District III

<u>District I</u> 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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 321968

## **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	321968
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1706053151
Incident Name	NAB1706053151 RDX 17 FEDERAL COM #020H @ 30-015-41381
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41381] RDX 17 FEDERAL COM #020H

Location of Release Source					
Site Name	RDX 17 FEDERAL COM #020H				
Date Release Discovered	02/10/2017				
Surface Owner	Federal				

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Contact Ashley Giovengo 575-988-0055
Please provide any information necessary for navigation to sampling site	Location at 32.0489464° N, -103.8974533° W

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 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 321968

## **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	321968
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/11/2024

From: <u>Maxwell, Ashley, EMNRD</u>

To: Raley, Jim

Subject: RE: [EXTERNAL] WPX Energy Extension Request - NAB1422341439

**Date:** Friday, February 16, 2024 7:58:41 AM

Attachments: image001.png

## Good Morning Jim,

Your extension request for 90 days has been approved. Please submit a report via the OCD permitting portal by June 21, 2024.

Ashley Maxwell • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>.

From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Sent: Thursday, February 15, 2024 12:15 PM

**To:** Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>>

**Subject:** [EXTERNAL] WPX Energy Extension Request - NAB1422341439

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

Robert,

WPX Energy is requesting and extension for incident# NAB1422341439 for the RDX 17-20H. This incident occurred on 7/30/2014.

The previous closure request was denied as a small area off pad was above the closure criteria. We anticipate excavating this small area, but cannot proceed without BLM sundry approval. We are still waiting on BLM to review the sundry application and give permission for equipment off pad.

Due to this delay in receiving landowners permission we ask for an additional 90 days to complete.

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

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 356608

## **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356608
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAB1706053151	
Incident Name	NAB1706053151 RDX 17 FEDERAL COM #020H @ 30-015-41381	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-015-41381] RDX 17 FEDERAL COM #020H	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX 17 FEDERAL COM #020H
Date Release Discovered	02/10/2017
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:     Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 400 BBL   Recovered: 100 BBL   Lost: 300 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

appropriately

If all the actions described above have not been undertaken, explain why

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 

# **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 356608

1220 S. St Francis Dr., Santa Fe, NM 8/505 Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator:  WPX Energy Permian, LLC  Devon Energy - Regulatory  Oklahoma City, OK 73102	OGRID:
Oklationia Gity, Ok 73102	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	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	

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.

Not answered.

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.

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 06/21/2024

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

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 356608

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356608
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 500 and 1000 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or a	re indicated. This information must be provided to the	e 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 to	he lateral and vertical extents of soil contamination a	ssociated 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 t	he highest observable value for each, in millig	grams per kilograms.)
Chloride (EPA	A 300.0 or SM4500 Cl B)	3200
TPH (GRO+DRO+MRO) (EPA S	SW-846 Method 8015M)	55.1
GRO+DRO (EPA	A SW-846 Method 8015M)	55.1
BTEX (EPA	A SW-846 Method 8021B or 8260B)	0
Benzene (EP/	A SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless which includes the anticipated timelines for beg		fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence		09/27/2022
On what date will (or did) the final sam	pling or liner inspection occur	03/13/2024
On what date will (or was) the remedia	ition complete(d)	03/13/2024
What is the estimated surface area (in square feet) that will be reclaimed		2707
What is the estimated volume (in cubic yards) that will be reclaimed		204
What is the estimated surface area (in square feet) that will be remediated		2707
What is the estimated volume (in cubic yards) that will be remediated		204
These estimated dates and measurements are r	recognized to be the best guess or calculation at the t	ime 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 acc	cordance 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.

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

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

**State of New Mexico** 

QUESTIONS, Page 4

Action 356608

#### QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356608
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes	
In which state is the disposal taking place	Texas	
What is the name of the out-of-state facility	R360	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/21/2024

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

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

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 5

Action 356608

#### **QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356608
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

**District I** 

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 

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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 6

Action 356608

QUESTIONS (	(continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356608
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	321968
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	400

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	2707	
What was the total volume (cubic yards) remediated	204	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	2707	
What was the total volume (in cubic yards) reclaimed	204	
Summarize any additional remediation activities not included by answers (above)	Soil Removed	

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: EHS Professional
Email: jim.raley@dvn.com
Date: 06/21/2024

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

QUESTIONS, Page 7

Action 356608

## **QUESTIONS** (continued)

Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	356608	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

#### QUESTIONS

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

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

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

CONDITIONS

Action 356608

## **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 356608
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/23/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/23/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/23/2024