



August 31, 2023

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

Re: Closure Request
RDX Federal 28 #023
Incident Number nAPP2316442083
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the RDX Federal 28 #023 (Site) in Unit G, Section 28, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of produced water within a lined containment and areas outside of containment. Based on field observations, field screening activities, and laboratory analytical results, WPX is submitting this *Closure Request* and requesting closure for Incident Number nAPP2316442083.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.0161209°, -103.8851547°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 7, 2023, a valve was inadvertently left open on a water transfer pump, which resulted in the release of approximately 158 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; 150 bbls of produced water was recovered from within the lined containment. Approximately 10 bbls leaked from a breach in the containment wall onto the pad surface. WPX reported the release to the New Mexico Oil and Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 8, 2023, and the release was assigned Incident Number nAPP2316442083 (see Appendix A).

A 48-hour advance notice of liner inspection was provided to NMOCD via email, and a liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the containment liner was determined to be insufficient and Ensolum personnel would return to the Site to conduct vertical delineation sampling beneath the tears in the liner.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according 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 the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 105 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On December 9, 2020, a soil boring (MW-1) was drilled at the RDX Federal Com 21-43 location utilizing a track-mounted hollow-stem auger rig. Soil boring MW-1 was drilled to a depth of 110 feet bgs. The location of the borehole is approximately 0.45 miles north of the release area and is depicted on Figure 1. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry-wash, located approximately 365 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On June 21, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four delineation soil samples (SS01 through SS04) were collected around the lined containment at ground surface to confirm the lateral extent of the release. Delineation soil sample SS05 was collected from an area of affected soil on the north side of the containment to verify the vertical extent of the release at ground surface. Ensolum personnel returned to the Site on June 28, 2023, to advance two boreholes (BH01 and BH02) via hand-auger at the locations of the tears in the liner identified during the liner integrity inspection. Five discrete delineation soil samples were collected from borehole (BH01) and four discrete delineation soil samples were collected from borehole (BH02) at depths ranging from the ground surface to 4 feet bgs. A borehole (BH03) was advanced to a depth of 2 feet bgs in the vicinity of delineation soil sample SS05 to verify the vertical extent of soil on the caliche pad.

Delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), TPH utilizing a PetroFlag® soil analyzer system, and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the boreholes were documented on a lithologic/soil sampling logs, which are included as Appendix C. The boreholes were backfilled with soil removed and an Ensolum representative repaired the tears in the liner. The boreholes and soil sample locations are depicted on Figure 2. Photographic documentation was collected and a photographic log 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 Envirotech, Inc (Envirotech) in Farmington, New Mexico, 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 for delineation soil samples SS01 through SS04 indicated all COC concentrations were in compliance with the strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria; however, laboratory analytical results indicated chloride concentrations exceeded both Closure Criteria in sample location SS05. Laboratory analytical results for discrete soil samples collected from boreholes BH01 and BH02 indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from ground surface to 4 ft bgs beneath the containment liner. Laboratory analytical results for borehole sample BH03@0' exceeded the Site Closure Criteria at ground surface, indicating remediation of the affected area on-pad was warranted. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

EXCAVATION ACTIVITIES

On August 7 and August 8, 2023, Ensolum personnel were onsite to oversee the removal of impacted soil from the pad surface. Heavy equipment and hand tools were used to remove approximately 20 cubic yards of impacted soil from the pad surface. The impacted soil was transported and properly disposed of at the R360 Facility in Jal, New Mexico.

Following removal of impacted soil, Ensolum personnel collected 5-point composite confirmation soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow nature of the excavation, the composite samples included soil from sidewalls, excavation floors, and the edges of the lined containment wall. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. Composite soil samples FS01 through FS15 were at 0.5 feet bgs and laboratory analytical results indicated all COC concentrations from the 15 confirmation samples were in compliance with the Closure Criteria for the Site. The excavation extent and confirmation soil sample locations are presented on Figure 3 and laboratory analytical results are summarized in Table 2.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced two boreholes (BH01 and BH02) at the location of the tears in the liner to assess for the presence or absence of impacted soil resulting from the June 2023 produced water release within lined containment. Five discrete delineation soil samples were collected from borehole BH01, at depths ranging from the ground surface to 4 feet bgs and three discrete delineation soil samples were collected from boreholes BH02 and BH03, at depths of approximately the ground surface through 2 feet bgs. Laboratory analytical

results for the discrete soil samples collected from boreholes (BH01 and BH02) indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, laboratory analytical results for soil samples SS01 through SS04, collected around the containment, were compliant with the strictest Closure Criteria per NMOCD Table I. The tears in the liner were repaired by Ensolum personnel at the conclusion of delineation sampling.

Delineation soil sample SS05 and borehole sample BH03@0' both exceed the Site Closure Criteria at ground surface but were removed during excavation of impacted soils on-pad. Confirmation sampling was completed, and all confirmation soil samples were below the applicable Closure Criteria for the Site.

Based on delineation sampling and excavation efforts, depth to groundwater greater than 105 feet bgs, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tears in the liner and on pad, all remediation activities have been protective of human health, the environment, and groundwater. As such, WPX respectfully requests closure for Incident Number nAPP2316442083.

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 Engineer

Daniel R. Moir, P.G.
Senior Managing Geologist

cc: Jim Raley, Devon Energy
Crisha A. Morgan, BLM

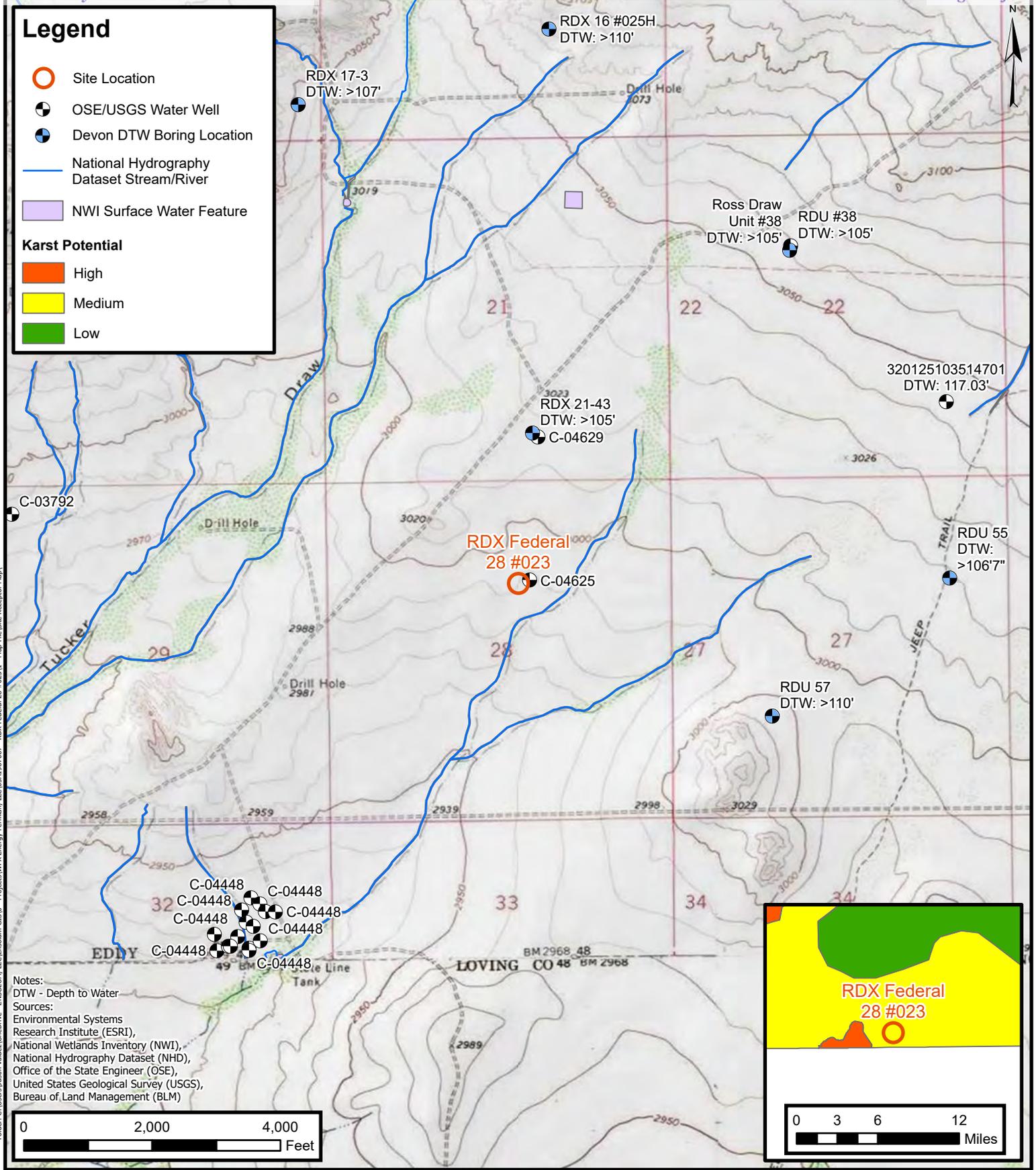
Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Confirmation Soil Sample Locations
- Table 1 Delineation Soil Sample Analytical Results
- Table 2 Confirmation Soil Sample Analytical Results
- Appendix A Form C-141
- Appendix B Well Record and Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Photographic Log
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Sample Notification



FIGURES



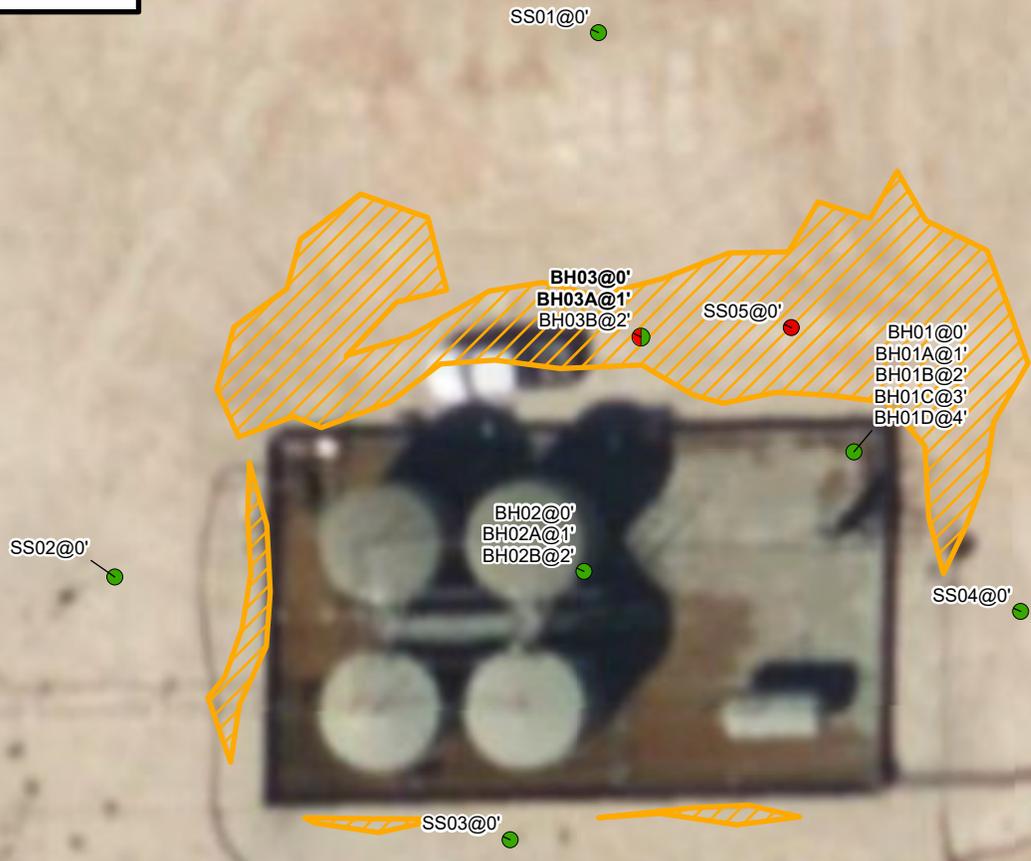


Site Receptor Map
 WPX Energy Permian, LLC
 RDX Federal 28 #023
 Incident Number: nAPP2316442083
 Unit G, Section 28, T 26S, R 30E
 Eddy County, New Mexico

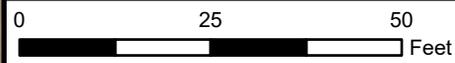
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

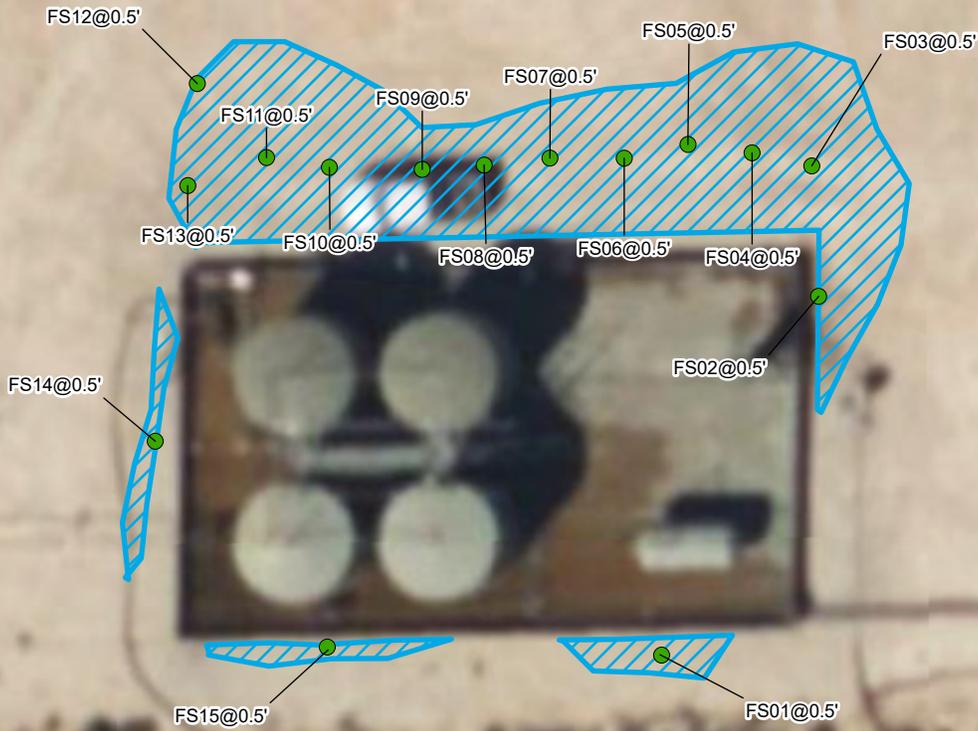
WPX Energy Permian, LLC
 RDX Federal 28 #023
 Incident Number: nAPP2316442083
 Unit G, Section 28, T 26S, R 30E
 New Mexico, 88220

FIGURE

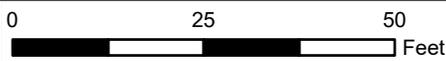
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations

WPX Energy Permian, LLC
 RDX Federal 28 #023
 Incident Number: nAPP2316442083
 Unit G, Section 28, T 26S, R 30E
 New Mexico, 88220

FIGURE

3





TABLES





**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
RDX Federal 28 #023
WPX Energy Permian, LLC
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS02	06/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	06/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	55.8
SS04	06/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	97.6
SS05	06/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	30,900
BH01	06/28/2023	0	<0.0250	<0.0250	<20.0	121	228	121	349	14,700
BH01A	06/28/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	17,900
BH01B	06/28/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,380
BH01C	06/28/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,510
BH01D	06/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	160
BH02	06/28/2023	0	<0.0250	<0.0250	<20.0	719	1,120	719	1,839	8,580
BH02A	06/28/2023	1	<0.0250	<0.0250	<20.0	76.9	77.8	76.9	154.7	4,040
BH02B	06/28/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	57.7
BH03	06/28/2023	0	<0.0250	<0.0250	<20.0	279	557	279	836	34,000
BH03A	06/28/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	3,170
BH03B	06/28/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	206

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

NMAC: New Mexico Administrative Code

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

"<": Laboratory Analytical result is less than reporting limit

Grey text indicates soil sample removed during excavation activities



**TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
RDX Federal 28 #023
WPX Energy Permian, LLC
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	19,400
FS02	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	5,720
FS03	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	4,770
FS04	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,150
FS05	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	179
FS06	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,090
FS07	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	5,850
FS08	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	670
FS09	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	7,370
FS10	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,980
FS11	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	6,940
FS12	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	667
FS13	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	658
FS14	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	8,820
FS15	08/08/2013	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	3,470

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

NMAC: New Mexico Administrative Code

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

*<: Laboratory Analytical result is less than reporting limit

Grey text indicates soil sample removed during excavation activities



APPENDIX A

C-141 Form

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

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

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

Incident ID	nAPP2316442083
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permian, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2316442083
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0161209 Longitude -103.8851547
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX FEDERAL 28 #023	Site Type Oil Well
Date Release Discovered: 6/7/2023	API# (if applicable) 30-015-41985

Unit Letter	Section	Township	Range	County
G	28	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 158	Volume Recovered (bbls) 150
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Valve was inadvertently left open on water transfer pump. This allowed the release of approx. 148 bbls produced water to lined secondary containment. Approx. 10 bbls leaked from breach in containment wall and impacted pad surface

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21\ (bbl\ equivalent)} * estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$$

State of New Mexico
Oil Conservation Division

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District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to Robert Hamlet and Rosa Romero on 6/8/2023	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Jim Raley</u> Title: <u>Environmental Professional</u> Signature: <u></u> Date: <u>6/13/2023</u> email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	nAPP2316442083
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?	> 105 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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Facility ID	
Application ID	

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

Printed Name: James Raley Title: Environmental Professional

Signature:  Date: 08/23/2023

email: jim.raley@dv.com Telephone: 575-689-7597

OCD Only

Received by: Shelly Wells Date: 9/1/2023

Incident ID	nAPP2316442083
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 items 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

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.

Printed Name: James Raley Title: Environmental Professional

Signature:  Date: 08/23/2023

email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Shelly Wells Date: 9/1/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



APPENDIX B

Well Log & Record

							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
Boring/Well Number: MW-1							Location: RDX Federal Com 21-43						
Date: 12/9/2020							Client: WPX Energy						
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, P.G.			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.022571		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs			Boring Total Depth (ft. BGS): 110			Longitude: -103.884371			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105			Depth to Water (ft. BTOC): > 105	DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale orange to tan poorly graded fine sand				
5													
10													
15													
20	NM	H	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche				
25													
30	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand				
35													
40													
45													
50	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay				
55													
60													
65	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay				
70													
75													
80	NM	M	D	N	N	NM	SC	NS	Buff to orange color fine sand with medium sand and clay				
85													
90													
95	NM	H	D	N	N	NM	CL	NS	Brown orange clay with silt and fine sand				
100													
105	NM	H	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' - 105' BGS				



APPENDIX C

Lithologic Soil Sampling Logs

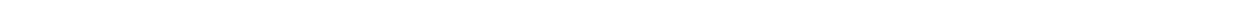
								Sample Name: BH01	Date: 6/28/23
								Site Name: RDX Ferederal 28 #023	
								Incident Number: nAPP2316442083	
								Job Number: 03A1987087	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR & CD	Method: Hand Auger
Coordinates: 32.015728, -103.885085								Hole Diameter: 4"	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	15,108	351.4	Y	BH01	0	0	CCHE	0-2' Caliche, med brown, poorly sorted, med/coarse grain, sub rounded grains, staining @ surface, Cl odor, moist 2-4' Sand w/silt, med brown, med to fine grain, poorly sorted, no stain, no odor, moist Petroflag = 57ppm	
M	18,026	190	N	BH01A	1	1			
M	772	224	N	BH01B	2	2	SP-SM		
M	3,421	2.4	N	BH01C	3	3			
M	369	1.9	N	BH01D	4	4			
Total Depth = 4' bgs.									

					Sample Name: BH02		Date: 6/28/23	
					Site Name: RDX Ferederal 28 #023			
					Incident Number: nAPP2316442083			
					Job Number: 03A1987087			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: MR & CD		Method: Hand Auger	
Coordinates: 32.015684, -103.885178					Hole Diameter: 4"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	7,282	20.7	Y	BH02	0	0	CCHE	0-2' Caliche, yellow/brown, poorly sorted, sub rounded grains, no staining passed 0.5', Cl odor, moist
M	5,280	10.8	N	BH02A	1	1		
M	324	1.5	N	BH02B	2	2	SP-SM	2' Sand w/silt, med brown to red/brown, med to fine grain, poorly sorted, no stain, no odor, moist Petroflag = 29ppm
Total Depth = 2' bgs.								



APPENDIX D

Photographic Log





Photographic Log
WPX Energy Permian, LLC
RDX Federal 28 #023H
Incident Number: nAPP2316442083



Photograph: 1 Date: 6/7/2023
Description: Initial Spill
View: East

Photograph: 2 Date: 6/7/2023
Description: Initial Spill
View: East



Photograph: 3 Date: 6/28/2023
Description: Excavation activities
View: Southwest

Photograph: 4 Date: 6/28/2023
Description: Backfilling activities
View: Southeast



Photographic Log
WPX Energy Permian, LLC
RDX Federal 28 #023H
Incident Number: nAPP2316442083



Photograph: 5 Date: 6/28/2023
Description: Delineation Soil Sampling (BH01)
View: Southeast

Photograph: 6 Date: 6/28/2023
Description: Delineation Soil Sampling (BH01)
View: Southeast



Photograph: 7 Date: 6/28/2023
Description: Delineation Soil Sampling (BH02)
View: Southwest

Photograph: 8 Date: 6/28/2023
Description: Liner Patch (BH01)
View: Southwest

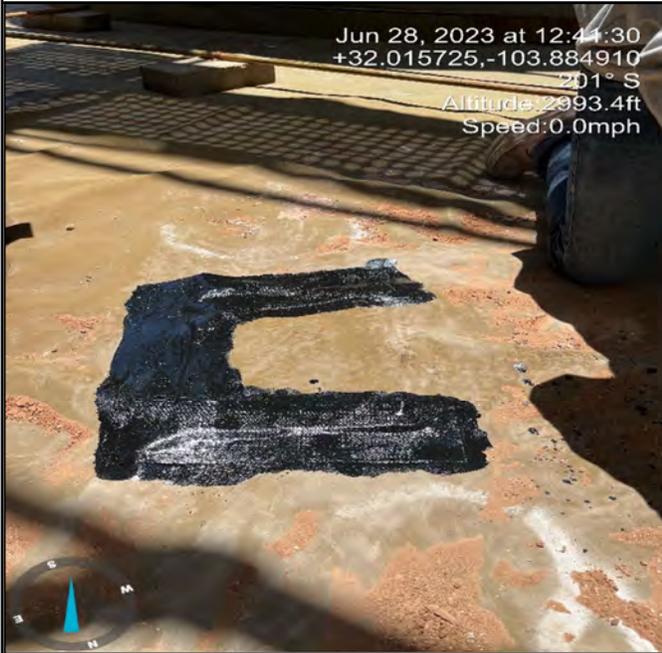


Photographic Log

WPX Energy Permian, LLC

RDX Federal 28 #023H

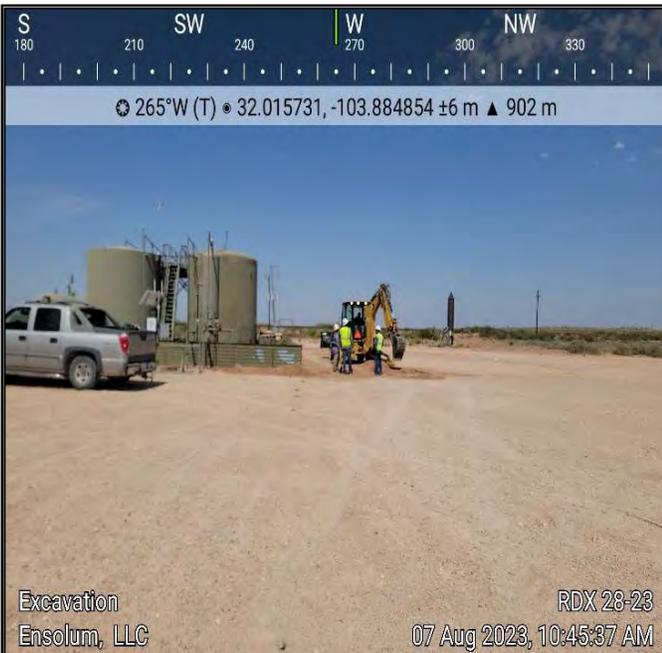
Incident Number: nAPP2316442083



Photograph: 9 Date: 6/28/2023
Description: Liner Patch (BH02)
View: South



Photograph: 10 Date: 6/28/2023
Description: Delineation Soil Sampling (BH03)
View: Northwest



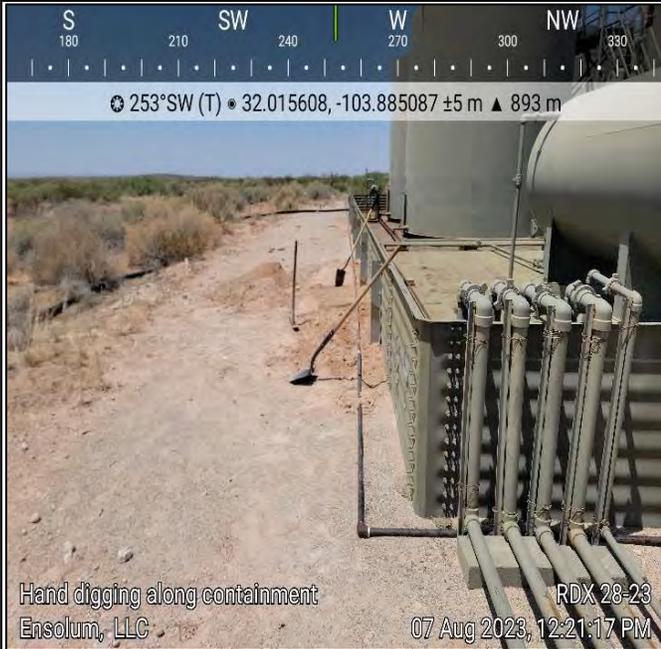
Photograph: 11 Date: 8/7/2023
Description: Excavation
View: West



Photograph: 12 Date: 8/7/2023
Description: Excavation
View: South

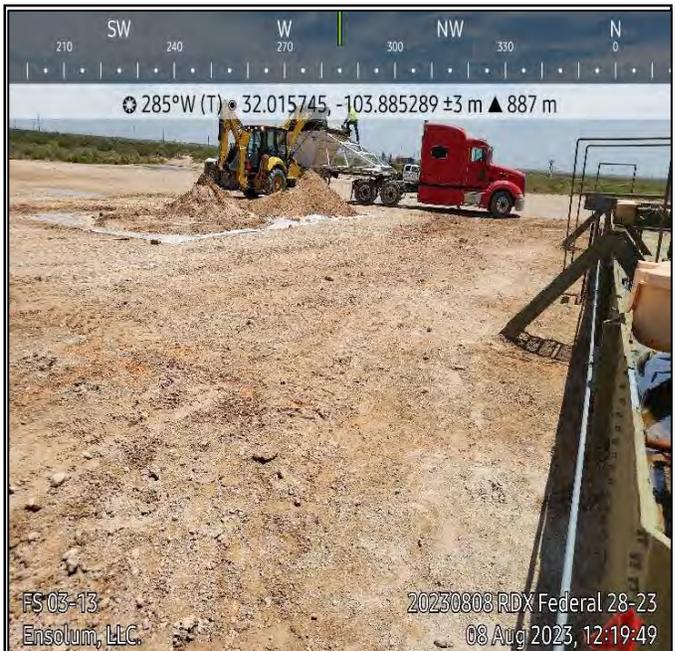


Photographic Log
WPX Energy Permian, LLC
RDX Federal 28 #023H
Incident Number: nAPP2316442083



Photograph: 13 Date: 8/7/2023
Description: Excavation
View: West

Photograph: 14 Date: 8/7/2023
Description: Excavation
View: Northwest



Photograph: 15 Date: 8/8/2023
Description: Confirmation Sampling
View: South

Photograph: 16 Date: 8/8/2023
Description: Confirmation Sampling
View: West



Photographic Log
WPX Energy Permian, LLC
RDX Federal 28 #023H
Incident Number: nAPP2316442083



Photograph: 17 Date: 8/8/2023
Description: Confirmation Sampling
View: Southwest



Photograph: 18 Date: 8/8/2023
Description: Confirmation Sampling
View: Northwest



Photograph: 19 Date: 8/8/2023
Description: Confirmation Sampling
View: Northeast



Photograph: 20 Date: 8/8/2023
Description: Confirmation Sampling
View: East



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 28 #023

Work Order: E306189

Job Number: 01058-0007

Received: 6/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 6/29/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX Federal 28 #023
Workorder: E306189
Date Received: 6/23/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2023 7:30:00AM, under the Project Name: RDX Federal 28 #023.

The analytical test results summarized in this report with the Project Name: RDX Federal 28 #023 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 06/29/23 11:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E306189-01A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
SS02 - 0'	E306189-02A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
SS03 - 0'	E306189-03A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
SS04 - 0'	E306189-04A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
SS05 - 0'	E306189-05A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
---	---	--

SS01 - 0'

E306189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	89.4 %	50-200		06/27/23	06/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2325082
Chloride	ND	20.0	1	06/23/23	06/27/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
---	---	--

SS02 - 0'

E306189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.1 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
		82.6 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2325082
Chloride	ND	20.0	1	06/23/23	06/27/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
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SS03 - 0'

E306189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.0 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
		84.5 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2325082
Chloride	55.8	20.0	1	06/23/23	06/27/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
---	---	--

SS04 - 0'

E306189-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.1 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
<i>Surrogate: n-Nonane</i>		75.8 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2325082
Chloride	97.6	20.0	1	06/23/23	06/27/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
---	---	--

SS05 - 0'

E306189-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.1 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2325072
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.7 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
<i>Surrogate: n-Nonane</i>		82.3 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2325082
Chloride	30900	400	20	06/23/23	06/27/23	



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2325072-BLK1)

Prepared: 06/23/23 Analyzed: 06/23/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

LCS (2325072-BS1)

Prepared: 06/23/23 Analyzed: 06/23/23

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.0	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.97	0.0250	5.00		99.5	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2325072-MS1)

Source: E306180-01

Prepared: 06/23/23 Analyzed: 06/23/23

Benzene	4.98	0.0250	5.00	ND	99.5	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike Dup (2325072-MSD1)

Source: E306180-01

Prepared: 06/23/23 Analyzed: 06/23/23

Benzene	5.07	0.0250	5.00	ND	101	54-133	1.84	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	61-133	2.11	20	
Toluene	5.07	0.0250	5.00	ND	101	61-130	1.94	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	1.80	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.98	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2325072-BLK1)

Prepared: 06/23/23 Analyzed: 06/23/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			

LCS (2325072-BS2)

Prepared: 06/23/23 Analyzed: 06/23/23

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.7	70-130			

Matrix Spike (2325072-MS2)

Source: E306180-01

Prepared: 06/23/23 Analyzed: 06/23/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

Matrix Spike Dup (2325072-MSD2)

Source: E306180-01

Prepared: 06/23/23 Analyzed: 06/23/23

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.7	70-130	2.45	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326020-BLK1)

Prepared: 06/27/23 Analyzed: 06/27/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.0		50.0		90.1	50-200			

LCS (2326020-BS1)

Prepared: 06/27/23 Analyzed: 06/27/23

Diesel Range Organics (C10-C28)	251	25.0	250		101	38-132			
Surrogate: <i>n</i> -Nonane	38.9		50.0		77.8	50-200			

Matrix Spike (2326020-MS1)

Source: E306184-12

Prepared: 06/27/23 Analyzed: 06/27/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: <i>n</i> -Nonane	35.4		50.0		70.9	50-200			

Matrix Spike Dup (2326020-MSD1)

Source: E306184-12

Prepared: 06/27/23 Analyzed: 06/27/23

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	4.87	20	
Surrogate: <i>n</i> -Nonane	36.0		50.0		72.0	50-200			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 6/29/2023 11:24:24AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2325082-BLK1)

Prepared: 06/23/23 Analyzed: 06/27/23

Chloride	ND	20.0							
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LCS (2325082-BS1)

Prepared: 06/23/23 Analyzed: 06/27/23

Chloride	244	20.0	250		97.7	90-110			
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Matrix Spike (2325082-MS1)

Source: E306184-01

Prepared: 06/23/23 Analyzed: 06/27/23

Chloride	261	20.0	250	ND	105	80-120			
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Matrix Spike Dup (2325082-MSD1)

Source: E306184-01

Prepared: 06/23/23 Analyzed: 06/27/23

Chloride	261	20.0	250	ND	104	80-120	0.226	20	
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QC Summary Report Comment:

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	RDX Federal 28 #023	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/29/23 11:24

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: Devon Energy Project: RDX Federal 28 #023 Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip Carlsbad, NM 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:	Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr City, State, Zip Carlsbad, NM 88220 Phone: 575-689-7597 Email: jim.raley@dvn.com	Lab Use Only Lab WO# <u>E306189</u> Job Number <u>0058007</u>	TAT 1D 2D 3D Standard x	EPA Program CWA SDWA RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
900	6/21/2023	S	1	SS01-0'	1						X		
945	6/21/2023	S	1	SS02-0'	2						X		
910	6/21/2023	S	1	SS03-0'	3						X		
915	6/21/2023	S	1	SS04-0'	4						X		
920	6/21/2023	S	1	SS05-0'	5						X		

Additional Instructions:

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

Sampled by: Ronni Hayes

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	6/22/23	1000	<u>Michelle Cuyler</u>	6/22/23	1000	
<u>Michelle Cuyler</u>	6/22/23	1730	<u>Andrew MVS60</u>	6/22/23	1845	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Andrew MVS60</u>	6.13.23	2400	<u>Cathy Man</u>	6/23/23	7:30	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 6/23/2023 10:40:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Devon Energy - Carlsbad Date Received: 06/23/23 07:30 Work Order ID: E306189
Phone: (505) 382-1211 Date Logged In: 06/23/23 08:39 Logged In By: Caitlin Mars
Email: ashley.giovengo@wescominc.com Due Date: 06/29/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX FEDERAL 28 #023

Work Order: E306237

Job Number: 01058-0007

Received: 6/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 7/10/23

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX FEDERAL 28 #023
Workorder: E306237
Date Received: 6/30/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/30/2023 8:20:00AM, under the Project Name: RDX FEDERAL 28 #023.

The analytical test results summarized in this report with the Project Name: RDX FEDERAL 28 #023 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 07/10/23 15:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E306237-01A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH01A - 1'	E306237-02A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH01B - 2'	E306237-03A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH01C - 3'	E306237-04A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH01D - 4'	E306237-05A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH02 - 0'	E306237-06A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH02A - 1'	E306237-07A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH02B - 2'	E306237-08A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH03 - 0'	E306237-09A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH03A - 1'	E306237-10A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.
BH03B - 2'	E306237-11A	Soil	06/28/23	06/30/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH01 - 0'

E306237-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	121	50.0	2	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	228	100	2	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>		114 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2327025
Chloride	14700	400	20	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH01A - 1'

E306237-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.2 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.6 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	17900	1000	50	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH01B - 2'

E306237-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.7 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.9 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	1380	20.0	1	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH01C - 3'

E306237-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.5 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.9 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	2510	40.0	2	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BHO1D - 4'
E306237-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.3 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>		116 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	160	20.0	1	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH02 - 0'

E306237-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	719	250	10	07/06/23	07/10/23	
Oil Range Organics (C28-C36)	1120	500	10	07/06/23	07/10/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		07/06/23	07/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	8580	100	5	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH02A - 1'

E306237-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.0 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	76.9	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	77.8	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	4040	100	5	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH02B - 2'

E306237-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	57.7	20.0	1	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH03 - 0'

E306237-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.9 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	279	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	557	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	31000	2000	100	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH03A - 1'

E306237-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>						
	121 %	50-200		07/06/23	07/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	3170	40.0	2	07/06/23	07/07/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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BH03B - 2'

E306237-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Benzene	ND	0.0250	1	06/30/23	07/03/23	
Ethylbenzene	ND	0.0250	1	06/30/23	07/03/23	
Toluene	ND	0.0250	1	06/30/23	07/03/23	
o-Xylene	ND	0.0250	1	06/30/23	07/03/23	
p,m-Xylene	ND	0.0500	1	06/30/23	07/03/23	
Total Xylenes	ND	0.0250	1	06/30/23	07/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2326080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/30/23	07/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %	70-130	06/30/23	07/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2327032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2327025
Chloride	206	20.0	1	07/06/23	07/07/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326080-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			

LCS (2326080-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	5.18	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2326080-MS1)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Benzene	4.98	0.0250	5.00	ND	99.7	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133			
Toluene	4.93	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.80	0.0500	10.0	ND	98.0	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2326080-MSD1)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	1.52	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.76	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	1.74	20	
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131	1.73	20	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131	1.71	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	1.72	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2326080-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

LCS (2326080-BS2)

Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike (2326080-MS2)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2326080-MSD2)

Source: E306236-06

Prepared: 06/30/23 Analyzed: 07/02/23

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	83.1	70-130	1.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2327032-BLK1)

Prepared: 07/06/23 Analyzed: 07/07/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.0		50.0		108	50-200			

LCS (2327032-BS1)

Prepared: 07/06/23 Analyzed: 07/07/23

Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132			
Surrogate: <i>n</i> -Nonane	54.2		50.0		108	50-200			

Matrix Spike (2327032-MS1)

Source: E306237-07

Prepared: 07/06/23 Analyzed: 07/07/23

Diesel Range Organics (C10-C28)	369	25.0	250	76.9	117	38-132			
Surrogate: <i>n</i> -Nonane	56.9		50.0		114	50-200			

Matrix Spike Dup (2327032-MSD1)

Source: E306237-07

Prepared: 07/06/23 Analyzed: 07/07/23

Diesel Range Organics (C10-C28)	317	25.0	250	76.9	96.1	38-132	15.1	20	
Surrogate: <i>n</i> -Nonane	54.5		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX FEDERAL 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/10/2023 3:10:23PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2327025-BLK1)

Prepared: 07/06/23 Analyzed: 07/07/23

Chloride	ND	20.0							
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LCS (2327025-BS1)

Prepared: 07/06/23 Analyzed: 07/07/23

Chloride	261	20.0	250		105	90-110			
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Matrix Spike (2327025-MS1)

Source: E306237-01

Prepared: 07/06/23 Analyzed: 07/07/23

Chloride	16800	400	250	14700	841	80-120			M5
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Matrix Spike Dup (2327025-MSD1)

Source: E306237-01

Prepared: 07/06/23 Analyzed: 07/07/23

Chloride	16300	400	250	14700	629	80-120	3.21	20	M5
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QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX FEDERAL 28 #023	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/10/23 15:10

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/26/2024 8:39:03 AM

Received by OCD: 9/1/2023 11:59:06 AM

Client: WDX Energy		Bill To		Lab Use Only		TAT			EPA Program					
Project: RDX FEDERAL 28 #023		Attention: Jim Raley		Lab WO# E306237		Job Number 0058-0007			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovenego		Address: 5315 Buena Vista Dr		City, State, Zip: Carlsbad, NM 88220		Analysis and Method							RCRA	
Address: 3122 Nat'l Parks Hwy		Phone: 575-689-7597		Email: jim.raley@dvn.com									State	
City, State, Zip: Carlsbad, NM 88220													<input checked="" type="checkbox"/> NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX	
Phone: 575-988-0055													Remarks	
Email: agiovenego@ensolum.com														
Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1015	6/28/23	S	1	BH01-0'	1						X		
1020	6/28/23	S	1	BH02-1' BH01A-1'	2						X		
1025	6/28/23	S	1	BH01B-2'	3						X		
1030	6/28/23	S	1	BH01C-3'	4						X		
1035	6/28/23	S	1	BH01D-4'	5						X		
1130	6/28/23	S	1	BH02-0'	6						X		
1135	6/28/23	S	1	BH02A-1'	7						X		
1140	6/28/23	S	1	BH02B-2'	8						X		
1305	6/28/23	S	1	BH03-0'	9						X		
1310	6/28/23	S	1	BH03A-1'	10						X		

Additional Instructions: Preserved on ice. Please CC **Ashley Giovenego (agiovenego@ensolum.com)**, **Cole Burton (cburton@ensolum.com)**, **Jim Raley (jim.raley@dvn.com)** in results.

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

Relinquished by: (Signature) [Signature]	Date 6/29/23	Time 1500	Received by: (Signature) Michelle Geyde	Date 6-29-23	Time 1500	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle Geyde	Date 6-29-23	Time 1700	Received by: (Signature) Andrew Russo	Date 6-29-23	Time 1730	
Relinquished by: (Signature) Andrew Russo	Date 6-29-23	Time 2300	Received by: (Signature) Keith Man	Date 6/30/23	Time 8:20	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



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Client: WPX Energy		Bill To		Lab Use Only		TAT		EPA Program			
Project: RDX FEDERAL 28 #023		Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovenco		Address: 5315 Buena Vista Dr		E306237	01058-0007				X		
Address: 3122 Nat'l Parks Hwy		City, State, Zip: Carlsbad, NM 88220		Analysis and Method							
City, State, Zip: Carlsbad, NM 88220		Phone: 575-689-7599		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	RCRA
Phone: 575-988-0055		Email: jim.raley@dvn.com		State							
Email: ajgiovenco@ensolum.com		Report due by:		NM	CO	UT	AZ	TX			
				X					Remarks		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1315	6/28/23	S	1	BH03B-2'	11						X		

Additional Instructions: Preserved on ice. Please CC Ashley Giovenco (ajgiovenco@ensolum.com), Cole Burton (cburton@ensolum.com), + Jim Raley (jim.raley@dvn.com) in results.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <i>Meredith Roberts</i>			Date: 6/28/23	Time: 1500	Received by: (Signature) <i>Micelle Gonzalez</i>			Date: 6-29-23	Time: 1500	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N		
Relinquished by: (Signature) <i>Micelle Gonzalez</i>			Date: 6-29-23	Time: 1700	Received by: (Signature) <i>Andrew Messer</i>			Date: 6-29-23	Time: 1730	T1 _____ T2 _____ T3 _____		
Relinquished by: (Signature) <i>Andrew Messer</i>			Date: 6-29-23	Time: 2300	Received by: (Signature) <i>Cathy Man</i>			Date: 6/30/23	Time: 8:20	AVG Temp °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Released to Imaging: 1/26/2024 8:39:03 AM

Received by: OCD: 9/1/2023 11:59:06 AM

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Envirotech Analytical Laboratory

Printed: 6/30/2023 10:48:25AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/30/23 08:20	Work Order ID:	E306237
Phone:	(539) 573-4018	Date Logged In:	06/29/23 17:12	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wesominc.com	Due Date:	07/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX Federal 28 #023

Work Order: E308059

Job Number: 01058-0007

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 8/15/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX Federal 28 #023
Workorder: E308059
Date Received: 8/10/2023 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: RDX Federal 28 #023.

The analytical test results summarized in this report with the Project Name: RDX Federal 28 #023 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 08/15/23 14:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0.5'	E308059-01A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS02 - 0.5'	E308059-02A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS03 - 0.5'	E308059-03A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS04 - 0.5'	E308059-04A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS05 - 0.5'	E308059-05A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS06 - 0.5'	E308059-06A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS07 - 0.5'	E308059-07A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS08 - 0.5'	E308059-08A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS09 - 0.5'	E308059-09A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS10 - 0.5'	E308059-10A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS11 - 0.5'	E308059-11A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS12 - 0.5'	E308059-12A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS13 - 0.5'	E308059-13A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS14 - 0.5'	E308059-14A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
FS15 - 0.5'	E308059-15A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS01 - 0.5'

E308059-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		97.7 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	19400	1000	50	08/10/23	08/10/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS02 - 0.5'

E308059-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/14/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/14/23	
Toluene	ND	0.0250	1	08/10/23	08/14/23	
o-Xylene	ND	0.0250	1	08/10/23	08/14/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/14/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	08/10/23	08/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	08/10/23	08/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	5720	200	10	08/10/23	08/10/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS03 - 0.5'

E308059-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		92.2 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	4770	400	20	08/10/23	08/10/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS04 - 0.5'

E308059-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.0 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		92.2 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	1150	100	5	08/10/23	08/10/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS05 - 0.5'

E308059-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.0 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		99.3 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	179	40.0	2	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS06 - 0.5'

E308059-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	2090	200	10	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS07 - 0.5'

E308059-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		90.6 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	5850	400	20	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS08 - 0.5'

E308059-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.4 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		88.2 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	670	100	5	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS09 - 0.5'

E308059-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		96.8 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	7370	400	20	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS10 - 0.5'

E308059-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	1980	100	5	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS11 - 0.5'

E308059-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		88.9 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	6940	100	5	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS12 - 0.5'

E308059-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		70.0 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	667	40.0	2	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS13 - 0.5'

E308059-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	658	40.0	2	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS14 - 0.5'

E308059-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		91.1 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	8820	400	20	08/10/23	08/11/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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FS15 - 0.5'

E308059-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/12/23	
<i>Surrogate: n-Nonane</i>		95.8 %	50-200	08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332081
Chloride	3470	200	10	08/10/23	08/11/23	



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332088-BLK1)

Prepared: 08/10/23 Analyzed: 08/14/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2332088-BS1)

Prepared: 08/10/23 Analyzed: 08/14/23

Benzene	4.96	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

Matrix Spike (2332088-MS1)

Source: E308059-02

Prepared: 08/10/23 Analyzed: 08/14/23

Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2332088-MSD1)

Source: E308059-02

Prepared: 08/10/23 Analyzed: 08/15/23

Benzene	5.04	0.0250	5.00	ND	101	54-133	0.275	20	
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133	0.229	20	
Toluene	5.09	0.0250	5.00	ND	102	61-130	0.134	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	0.124	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	0.00292	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	0.0389	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332088-BLK1)

Prepared: 08/10/23 Analyzed: 08/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2332088-BS2)

Prepared: 08/10/23 Analyzed: 08/14/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike (2332088-MS2)

Source: E308059-02

Prepared: 08/10/23 Analyzed: 08/15/23

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

Matrix Spike Dup (2332088-MSD2)

Source: E308059-02

Prepared: 08/10/23 Analyzed: 08/15/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	6.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332068-BLK1)

Prepared: 08/09/23 Analyzed: 08/11/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	50-200			

LCS (2332068-BS1)

Prepared: 08/09/23 Analyzed: 08/11/23

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: <i>n</i> -Nonane	48.7		50.0		97.4	50-200			

Matrix Spike (2332068-MS1)

Source: E308059-05

Prepared: 08/09/23 Analyzed: 08/11/23

Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	38-132			
Surrogate: <i>n</i> -Nonane	39.3		50.0		78.5	50-200			

Matrix Spike Dup (2332068-MSD1)

Source: E308059-05

Prepared: 08/09/23 Analyzed: 08/12/23

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	3.24	20	
Surrogate: <i>n</i> -Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX Federal 28 #023 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/15/2023 2:28:40PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332081-BLK1)

Prepared: 08/10/23 Analyzed: 08/10/23

Chloride	ND	20.0							
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LCS (2332081-BS1)

Prepared: 08/10/23 Analyzed: 08/10/23

Chloride	275	20.0	250		110	90-110			
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Matrix Spike (2332081-MS1)

Source: E308059-01

Prepared: 08/10/23 Analyzed: 08/10/23

Chloride	18400	1000	250	19400	NR	80-120			M4
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Matrix Spike Dup (2332081-MSD1)

Source: E308059-01

Prepared: 08/10/23 Analyzed: 08/10/23

Chloride	16900	1000	250	19400	NR	80-120	8.26	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	RDX Federal 28 #023	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/15/23 14:28

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

Note (1): Methods marked with ** are non-accredited methods.
 Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/26/2024 8:39:03 AM

Client: Devon Energy		Bill To		Lab Use Only		TAT			EPA Program					
Project: RDX Federal 28 #023				Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo				Address: 5315 Buena Vista Dr		E 307059		01058-0007		X				
Address: 3122 National Parks Hwy				City, State, Zip: Carlsbad NM, 88220		Analysis and Method								
City, State, Zip: Carlsbad NM, 88220				Phone: (575)689-7597		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State	
Phone: 575-988-0055				Email: jim.raley@dvn.com									NM	CO
Email: agiovengo@ensolum.com		Report due by:												

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:51	8/8/2023	S	1	FS01 - 0.5'	1						X		
9:56	8/8/2023	S	1	FS02 - 0.5'	2						X		
10:05	8/8/2023	S	1	FS03 - 0.5'	3						X		
10:06	8/8/2023	S	1	FS04 - 0.5'	4						X		
10:17	8/8/2023	S	1	FS05 - 0.5'	5						X		
10:37	8/8/2023	S	1	FS06 - 0.5'	6						X		
10:47	8/8/2023	S	1	FS07 - 0.5'	7						X		
10:55	8/8/2023	S	1	FS08 - 0.5'	8						X		
11:09	8/8/2023	S	1	FS09 - 0.5'	9						X		
11:11	8/8/2023	S	1	FS10 - 0.5'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>		Date: 08/09/23	Time: 11:30 AM	Received by: (Signature) <i>[Signature]</i>		Date: 8-9-23	Time: 1130	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>		Date: 8-9-23	Time: 1515	Received by: (Signature) <i>[Signature]</i>		Date: 8-9-23	Time: 1700	
Relinquished by: (Signature) <i>[Signature]</i>		Date: 8-9-23	Time: 2300	Received by: (Signature) <i>[Signature]</i>		Date: 8/10/23	Time: 7:00	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Received by OCD: 9/1/2023 11:59:06 AM

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Released to Imaging: 1/26/2024 8:39:03 AM

Received by OCD: 9/1/2023 11:59:06 AM

Client: Devon Energy		Bill To		Lab Use Only			TAT			EPA Program							
Project: RDX Federal 28 #023		Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo		Address: 5315 Buena Vista Dr		E 308059		01058-0007					X						
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Analysis and Method									RCRA				
City, State, Zip: Carlsbad NM, 88220		Phone: (575)689-7597		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	GDOC TX	State				
Phone: 575-988-0055		Email: jim.raley@dvn.com											NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com		Report due by:											X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:16	8/8/2023	S	1	FS11 - 0.5'	11						X		
11:18	8/8/2023	S	1	FS12 - 0.5'	12						X		
11:23	8/8/2023	S	1	FS13 - 0.5'	13						X		
12:26	8/8/2023	S	1	FS14 - 0.5'	14						X		
13:20	8/8/2023	S	1	FS15 - 0.5'	15						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 08/09/23	Time 11:30 AM	Received by: (Signature) <i>[Signature]</i>	Date 8-9-23	Time 1130	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 8-9-23	Time 1515	Received by: (Signature) <i>[Signature]</i>	Date 8-9-23	Time 1700	
Relinquished by: (Signature) <i>[Signature]</i>	Date 8-9-23	Time 2300	Received by: (Signature) <i>[Signature]</i>	Date 8/10/23	Time 7:00	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



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Envirotech Analytical Laboratory

Printed: 8/10/2023 9:16:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	08/10/23 07:00	Work Order ID:	E308059
Phone:	(505) 382-1211	Date Logged In:	08/09/23 15:09	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	08/16/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX F

Email Correspondence

From: [Raley, Jim](#)
To: [CFO Spill, BLM NM](#)
Cc: [Ashley Giovento](#)
Subject: FW: Email notification of WPX Energy spill at the RDX Federal 28 #023 (API 30-015-41985)
Date: Tuesday, June 13, 2023 12:24:28 PM
Attachments: [image002.png](#)
[Initial C-141.pdf](#)
[MUE FORM \(napp2316442083\).pdf](#)

[**EXTERNAL EMAIL**]

Chrisha,
Please find C-141, MUE and 2 pictures for this event.

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



From: Woodall, Dale <Dale.Woodall@devon.com>
Sent: Thursday, June 8, 2023 9:35 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; RosaM.Romero@state.nm.us; Enviro, OCD, EMNRD <ocd.enviro@state.nm.us>
Cc: Anderson, Lacey <Lacey.Anderson@devon.com>; Raley, Jim <Jim.Raley@devon.com>
Subject: Email notification of WPX Energy spill at the RDX Federal 28 #023 (API 30-015-41985)

There was a 158 bbl produced water spill at the RDX Federal 28 #023 (API 30-015-41985) on 6/7/2023. The LO arrived at the location and noticed fluid in the containment. The source was a 1" bleed off valve. The bleeder valve was closed to stop the leak. 150 bbls were recovered. The spill was not confined to the lined containment as fluids were on the pad.

Please let me know if you have any questions.

Dale Woodall
Environmental Professional
205 E Bender Road # 150
Hobbs, New Mexico 88240
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@devon.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended

recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

From: [Enviro, OCD, EMNRD](#)
To: [Cole Burton](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] 48-Hour Liner Inspection - RDX Federal 28 #023 (nAPP2316442083)
Date: Friday, June 23, 2023 2:49:57 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Cole,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Cole Burton <cburton@ensolum.com>
Sent: Friday, June 23, 2023 9:28 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Raley, Jim <Jim.Raley@dvn.com>; Meredith Roberts <mroberts@ensolum.com>
Subject: [EXTERNAL] 48-Hour Liner Inspection - RDX Federal 28 #023 (nAPP2316442083)

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

Hello,

We intend to perform a liner integrity inspection at RDX Federal 28 #023 site (nAPP2316442083) on Wednesday, June 28, 2023.

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

Thanks,



Cole Burton
Project Manager
575-706-5056
Ensolum, LLC
in f 

From: [Ashley Giovengo](#)
To: [Enviro, OCD, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Raley, Jim](#); [Cole Burton](#); [Chad Hamilton](#)
Subject: 48-hour Confirmation Sampling Notification Email - RDX Federal 28 #023 - Incident Number nAPP2316442083
Date: Thursday, August 3, 2023 12:11:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello,

We intend to collect confirmation samples at Devon Energy's RDX Federal 28 #023 site (nAPP2316442083) beginning on Monday, August 07, 2023, at 09:00 am MST through August 08, 2023.

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

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

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

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

CONDITIONS

Action 261407

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 261407
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316442083 RDX FEDERAL 28 #023, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/26/2024