



Wescom Inc.
1224 Standpipe Road
Carlsbad, New Mexico 88220

(575) 840-3940
wescominc.com

June 14, 2021

Robert Hamlet, Victoria Venegas, and/or Chad Hensley
State of New Mexico
Energy, Minerals, and Natural Resources
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

Re: Deferral Request

Company: WPX Energy Permian, LLC
Location: RDX Federal 10 #015
API: 30-015-41383
PLSS: Unit N Sec 10 T26S R30E
GPS: 32.0526505, -103.8716049
Incident ID: nAPP2105554245

Background

Wescom, Inc., hereafter referred to as Wescom, has prepared this closure request on behalf of WPX Energy Permian, LLC, henceforth referred to as WPX, regarding the release at the RDX Federal 10 #015 (Site) located in Unit N, Section 10, Township 26 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.0526505 and West -103.8716049. Surface owner for this site is the Bureau of Land Management. The Site falls within New Mexico Oil Conservation Division (NMOCD) District 2 Artesia.

On February 19, 2021, a gas supply and backpressure relief valve froze causing the treater to over-pressurize on the RDX Federal 10 #015 pad. This allowed the release of approximately 135 bbls of fluids, approximately 128 were recovered. Fluids were released onto the lined secondary containment and pad surface. WPX Energy immediately stopped the source of the release, removed free liquids and secured the area. On March 25, 2021, remediation of soils on location was initiated and the lined secondary containment was inspected. On February 24, 2021, Wescom was dispatched to the location to delineate the spill impacts, characterize the location and prepare for remediation. Impacted soils were removed and confirmation samples collected to meet remediation standards throughout the entire spill area. Remediation efforts were successful in all areas where access was not limited with production equipment. However, due to accessibility under the treater containment and equipment impacted soils were not able to be removed. WPX Energy is requesting deferral to remove these soils from under the lined secondary containment of the treater, until final reclamation of this location.

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Surface & Ground Water

The nearest ground water measurement in the area is found in HRL Compliance Solutions bore log records indicating groundwater is greater than 110 below ground surface (bgs) and is 1.12 miles southwest of the location, shown in Attachment C.

Karst Potential

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

Target Remedial Levels

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. As depth to water data is lacking within a half mile radius of the site, the applicable recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX) and, 100 ppm Total Petroleum Hydrocarbons (TPH), characterization of vertical and horizontal extent of chloride concentration to a level of 600 mg/kg (ppm) is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
RDX Federal 10-15 -- 32.0523998, -103.8712729						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs or no water data within 1/2 mile	1.12	600	100		50	10
51 ft to 100 ft		10000	2500	1000	50	10
greater than 100 ft		20000	2500	1000	50	10
Surface water	yes or no	If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	no					
< 200 feet from lakebed, sinkhole or playa lake?	no					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	no					
< 1000 feet from fresh water well or spring?	no					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
< 100 feet from wetland?	no					
within area overlying a subsurface mine?	no					
within an unstable area?	no					
within a 100-year floodplain?	no					

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Site Assessment and Remediation Activities

Beginning February 24, 2021, WPX contracted Wescom to conduct on site delineation to determine the impact of the release. Laboratory analytical data for delineation samples are presented in Table 1. Impacted material from the initial remediation and delineation activities was transported to the Hobbs R360 facility. Initial Spill area is shown in Figure 1. Total impacted area was 8,000 square feet and confirmation samples were collected at intervals of less than 200 square feet per confirmation area.

The required 48-hour confirmation sampling notifications were sent on April 1 and 22, 2021 to Victoria Venegas, Robert Hamlet, Christina Eags and Mike Bratcher with the NMOCD in Santa Fe, New Mexico as. Wescom personnel were onsite on April 7, 8, 9, and 12, 2021 to excavate, conduct field screens and perform confirmation sampling of excavated areas. Soil with contaminant levels above RRAL's were removed to a maximum depth of three and half feet bgs. An additional sample was taken on April 27, 2021 for CONF06 to establish that the corresponding confirmation area was excavated to below RRALs.

As noted, confirmation composite samples were obtained from the excavation from April 7 through April 12 and April 27, 2021. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. The results are presented in Table 2. Laboratory Analytical Reports are included in Attachment E. Locations of samples are shown in Figure 2.

Excavated material was stockpiled onsite during remediation process and transported to R360 – Hobbs facility on April 9 and 12, 2021 by Kelly Oilfield Services. Approximately 560 cubic yards were hauled to the Hobbs R360 facility.

Liner Inspection

On March 25, 2021, a 48-hour liner inspection email was sent to Victoria Venegas, Robert Hamlet, Christina Eags and Mike Bratcher with the NMOCD in Santa Fe, New Mexico. The liner was inspected on March 1, 2021. The liner remained intact and had the ability to contain fluids released into containment as detailed in Attachment F.

Request for Deferral

On behalf of WPX, Wescom requests to defer approximately 73 cubic yards of contaminated soil until the RDX Federal 10-15 well is plugged and abandoned and reclamation activities commence based on the logic below. Area requested for deferral is shown in Figure 3.

- All confirmation areas meet the RRALs, except wall samples CONF42 and CONF43 (see Table 2 and Figure 3), which are surrounding the existing separator containment and fall within the area requested for deferral.
- Due to the location of the contaminated soil, it is not practical to remove for remediation. This separator and well are currently active and would require shutting in the well for an extended period in order to remove substrate beneath separator containment.
- The existing separator containment is intact (see Attachment E) and will act as a barrier to future hydrostatic pressure in existing contaminated soil, inhibiting the potential for transport of contamination to groundwater.

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If you have any questions or comments, please do not hesitate to call Ms. Sharlene Harvester at (218) 355-8047.

Sincerely,

Wescom, Inc.

Sharlene V. Harvester
Senior Environmental Scientist

cc: James Raley, WPX
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Chris Hensley, NMOCD

Figures

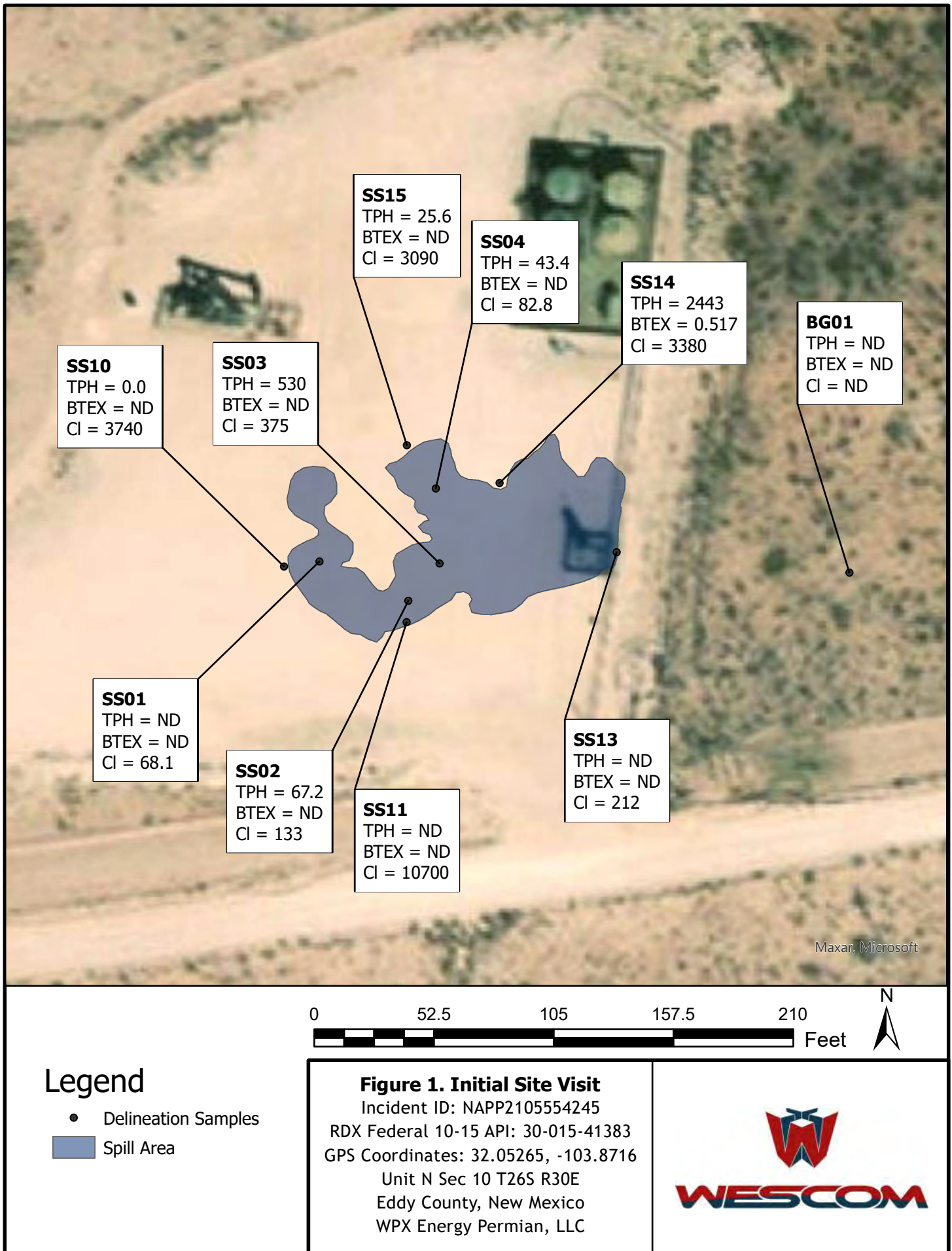
- Figure 1. Initial Site Visit
- Figure 2. Confirmation Samples
- Figure 3. Area of Requested Deferral

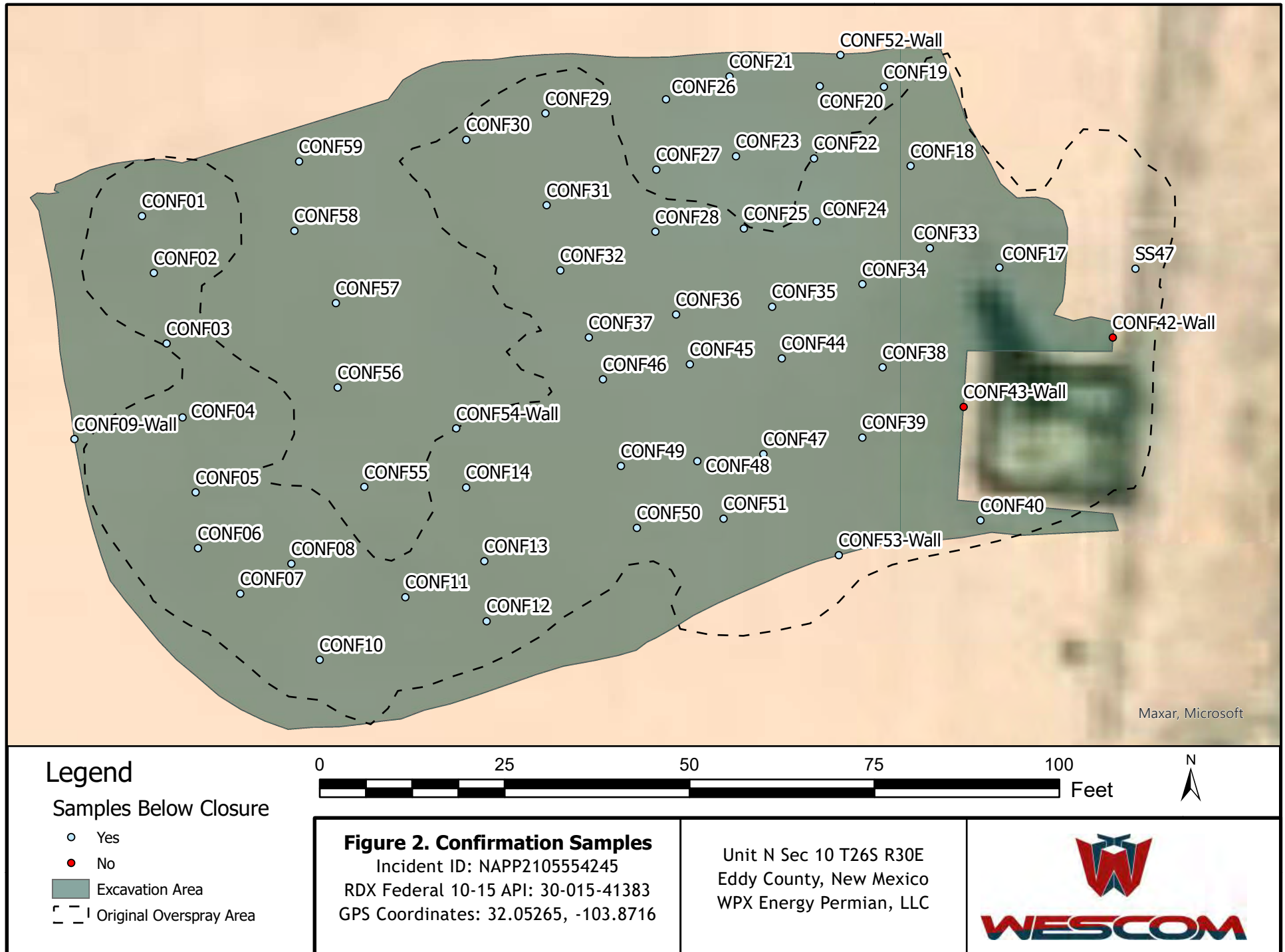
Tables

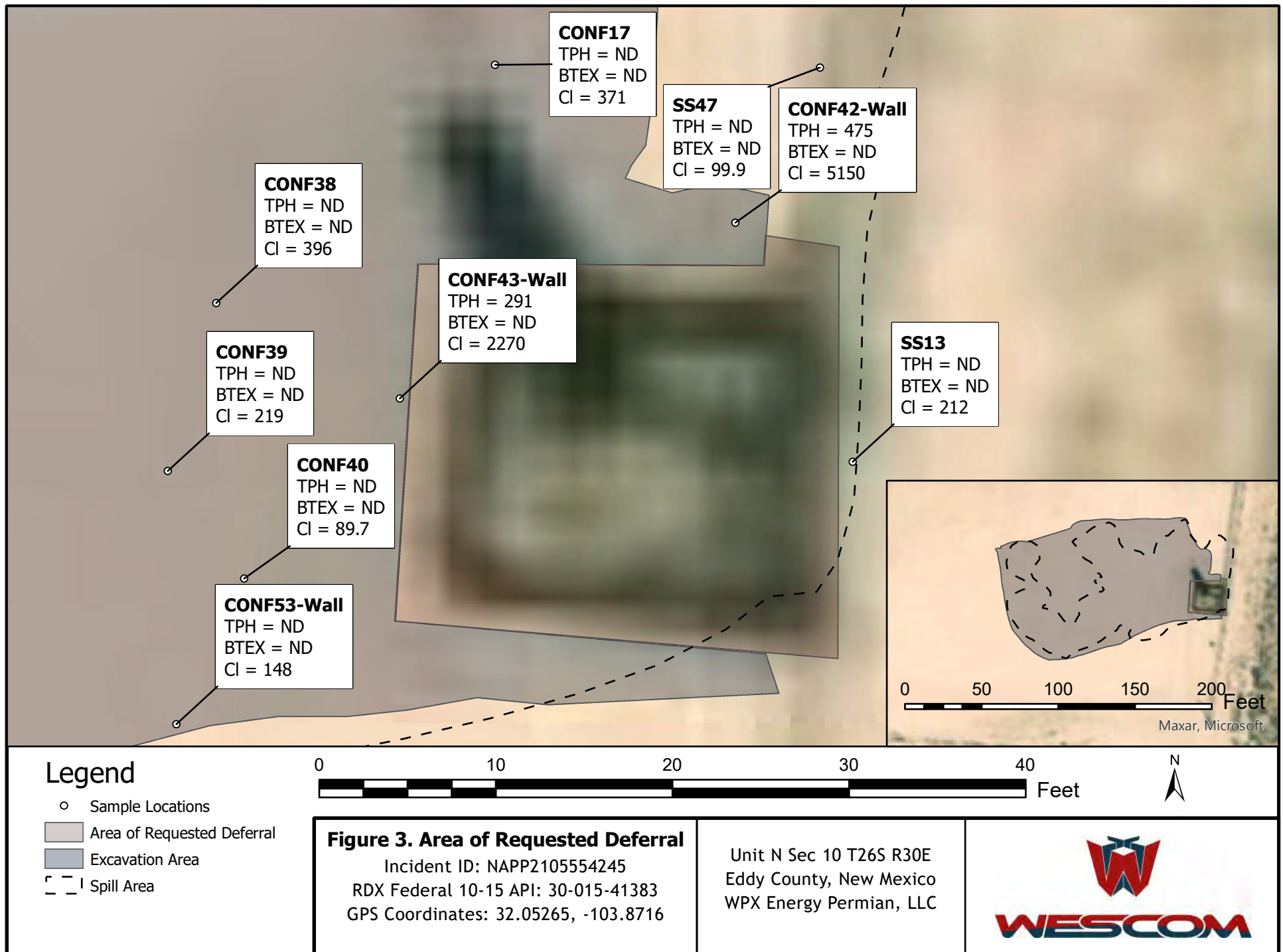
- Table 1. Laboratory Analysis Results: Spill Delineation
- Table 2. Laboratory Analysis Results: Confirmation Samples

Attachments

- Attachment A. C-141
- Attachment B. Site Photos
- Attachment C. Closure Criteria Research
- Attachment D. Karst Map
- Attachment E. Envirotech Laboratory Analysis
- Attachment F. Liner Inspection







RDX 10-15 - 2.19.2021 Spill WPX Energy Permian, LLC March 2, 2021							
Table 1. Laboratory Analysis Results: Spill Delineation							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	100		600
Lab Order: E102008 Envirotech, Inc.							
SS01	2	2/24/2021	ND	ND	ND	ND	68.1
SS02	2	2/24/2021	ND	ND	67.2	67.2	133
SS03	2	2/24/2021	ND	ND	530	369	375
SS04	2	2/24/2021	ND	ND	43.4	43.4	82.8
SS10	0	2/24/2021	ND	ND	ND	ND	3740
SS11	0	2/24/2021	ND	ND	ND	ND	10700
SS13	0	2/24/2021	ND	ND	ND	ND	212
SS14	0	2/24/2021	ND	0.517	2443	1720	3380
SS15	0	2/24/2021	ND	ND	25.6	25.6	3090
BG01	0	2/24/2021	ND	ND	ND	ND	ND
Abbreviations:			GRO - Gasoline Range Organics				
BTEX - Benzene, Toluene, Ethylene, Xylene			mg/kg - milligrams per kilogram				
DRO - Diesel Range Organics			ND - Non-detect				
ft. - feet			TPH - Total Petroleum Hydrocarbons				

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RDX 10-15 - 2.19.2021 Spill WPX Energy Permian, LLC April 27, 2021						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	
Closure Criteria			10	50	100	600
CONF01	3	4/7/2021	ND	ND	ND	ND
CONF02	0.5	4/7/2021	ND	ND	ND	250
CONF03	1	4/7/2021	ND	ND	ND	115
CONF04	1	4/7/2021	ND	ND	ND	140
CONF05	1	4/7/2021	ND	ND	ND	65.6
CONF06	1	4/7/2021	ND	ND	ND	766
CONF06 ¹	1.5	4/27/2021	ND	ND	ND	57.6
CONF07	0.5	4/7/2021	ND	ND	ND	316
CONF08	1	4/7/2021	ND	ND	ND	74.4
CONF09 ²	Wall	4/9/2021	ND	ND	ND	130
CONF10	1	4/7/2021	ND	ND	ND	215
CONF11	1	4/7/2021	ND	ND	ND	81.2
CONF12	2.5	4/9/2021	ND	ND	ND	200
CONF13	2	4/8/2021	ND	ND	ND	96.9
CONF14	2	4/8/2021	ND	ND	ND	119
CONF15	2.5	4/9/2021	ND	ND	ND	186
CONF16	2.5	4/9/2021	ND	ND	ND	130
CONF17	2	4/8/2021	ND	ND	ND	371
CONF18	2	4/8/2021	ND	ND	ND	74.9
CONF19	2	4/8/2021	ND	ND	ND	ND
CONF20	1	4/8/2021	ND	ND	ND	104
CONF21	1	4/8/2021	ND	ND	ND	141
CONF22	1	4/8/2021	ND	ND	ND	88.1
CONF23	1	4/8/2021	ND	ND	ND	68.9
CONF24	1	4/8/2021	ND	ND	ND	119
CONF25	1	4/8/2021	ND	ND	ND	60.6
CONF26	1	4/8/2021	ND	ND	ND	130
CONF27	1	4/8/2021	ND	ND	ND	166
CONF28	1	4/8/2021	ND	ND	ND	153
CONF29	2	4/8/2021	ND	ND	ND	49.8
CONF30	2	4/8/2021	ND	ND	56.3	194
CONF31	1	4/8/2021	ND	ND	ND	117
CONF32	1	4/9/2021	ND	ND	38.4	298
CONF33	2	4/8/2021	ND	ND	ND	210
CONF34	2	4/8/2021	ND	ND	ND	279
CONF35	1	4/8/2021	ND	ND	ND	275
CONF36	1	4/8/2021	ND	ND	ND	108
CONF37	1	4/8/2021	ND	ND	ND	57.9



RDX 10-15 - 2.19.2021 Spill WPX Energy Permian, LLC April 27, 2021						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	
Closure Criteria			10	50	100	600
CONF38	2	4/8/2021	ND	ND	ND	396
CONF39	2.5	4/9/2021	ND	ND	ND	219
CONF40	3.6	4/9/2021	ND	ND	ND	89.7
CONF41 ³	Wall	4/9/2021	ND	ND	475	5150
CONF42 ³	Wall	4/9/2021	ND	ND	291	2270
CONF43	3	4/9/2021	ND	ND	ND	145
CONF44	2	4/9/2021	ND	ND	ND	74.4
CONF45	3	4/9/2021	ND	ND	ND	220
CONF46	3.5	4/9/2021	ND	ND	ND	83.6
CONF47	2.6	4/9/2021	ND	ND	ND	80.4
CONF48	3.5	4/9/2021	ND	ND	ND	105
CONF49	3	4/9/2021	ND	ND	ND	123
CONF50	3	4/9/2021	ND	ND	ND	44.6
CONF51	Wall	4/9/2021	ND	ND	ND	376
CONF52	Wall	4/9/2021	ND	ND	ND	148
CONF53	Wall	4/9/2021	ND	ND	ND	138
CONF54	0.5	4/12/2021	ND	ND	ND	149
CONF55	0.5	4/12/2021	ND	ND	ND	141
CONF56	0.5	4/12/2021	ND	ND	ND	84.9
CONF57	0.5	4/12/2021	ND	ND	ND	194
CONF58	0.5	4/12/2021	ND	ND	ND	257
CONF59	0	4/9/2021	ND	ND	ND	99.9
CONF60	0	2/24/2021	ND	ND	ND	ND
Abbreviations:				GRO - Gasoline Range Organics		
BTEX - Benzene, Toluene, Ethylene, Xylene				mg/kg - milligrams per kilogram		
DRO - Diesel Range Organics				ND - Non-detect		
ft. - feet				TPH - Total Petroleum Hydrocarbons		
Notes:						
¹ Listed on Envirotech Lab Report E104128 as CONF06 - 1.5'.						
² Listed on Envirotech Lab Report E104054 as CONF09 - 2'. Sample is composite confirmation taken from the West wall of excavation.						
³ These samples are the basis of request for deferral.						
Red Bold - Results are above Closure Criteria.						
Black Bold - Resampled Confirmation area; results are below closure criteria.						

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	nAPP2105554245
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.ralej@wpxenergy.com	Incident # (assigned by OCD) nAPP2105554245
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0526505 _____ Longitude -103.8716049 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX FEDERAL 10 #015	Site Type: Oil Production Facility
Date Release Discovered: Feb 19 th , 2021	API# (if applicable) 30-015-41383

Unit Letter	Section	Township	Range	County
N	10	26S	30E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 20	Volume Recovered (bbls) 18
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 115	Volume Recovered (bbls) 110
	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: Gas supply and backpressure relief valve froze up and caused the treater to overpressure. Fluids were released to lined secondary containment and pad surface.


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

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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)? Notification was submitted via email on 2/19/2021 to Robert Hamlet and Emily Hernandez	

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>James Raley</u> Title: Environmental Specialist <u></u>	
Signature: <u></u> Date: <u>04/06/2020</u>	
email: <u>james.raley@wpenergy.com</u> Telephone: <u>575-689-7597</u>	
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>110</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas 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 ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

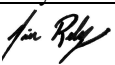
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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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 Specialist
Signature:  Date: 6-24-2021
email: jim.raley@dmv.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2105554245
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Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: James Raley Title: Environmental Specialist

Signature:  Date: 6-24-2021

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

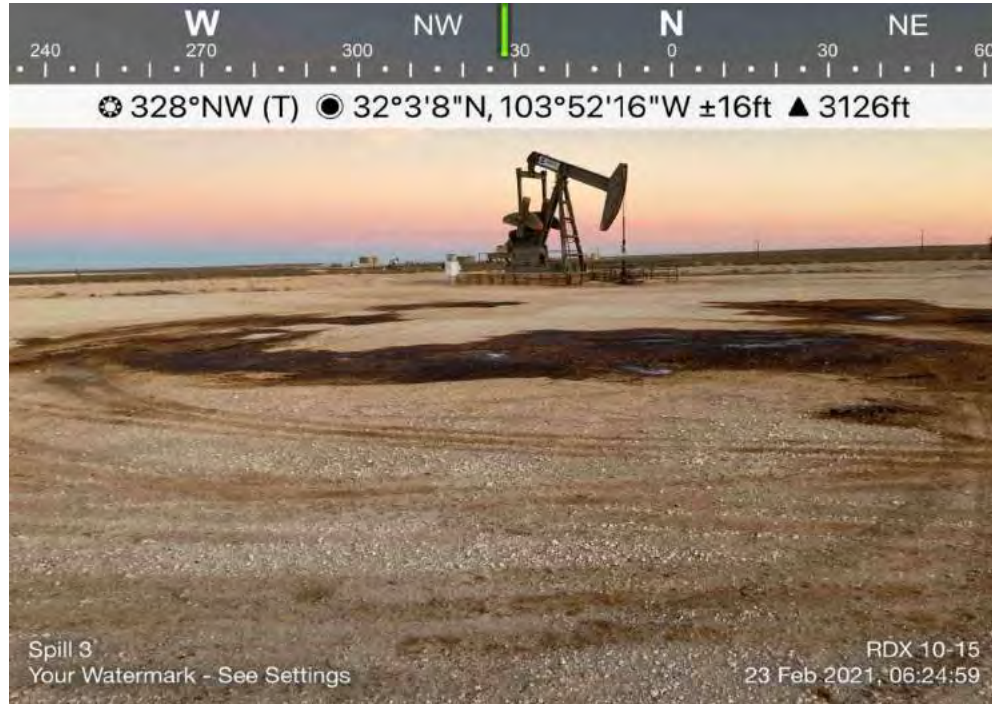
OCD Only

Received by: Chad Hensley Date: 07/14/2021

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

Signature:  Date: 07/14/2021

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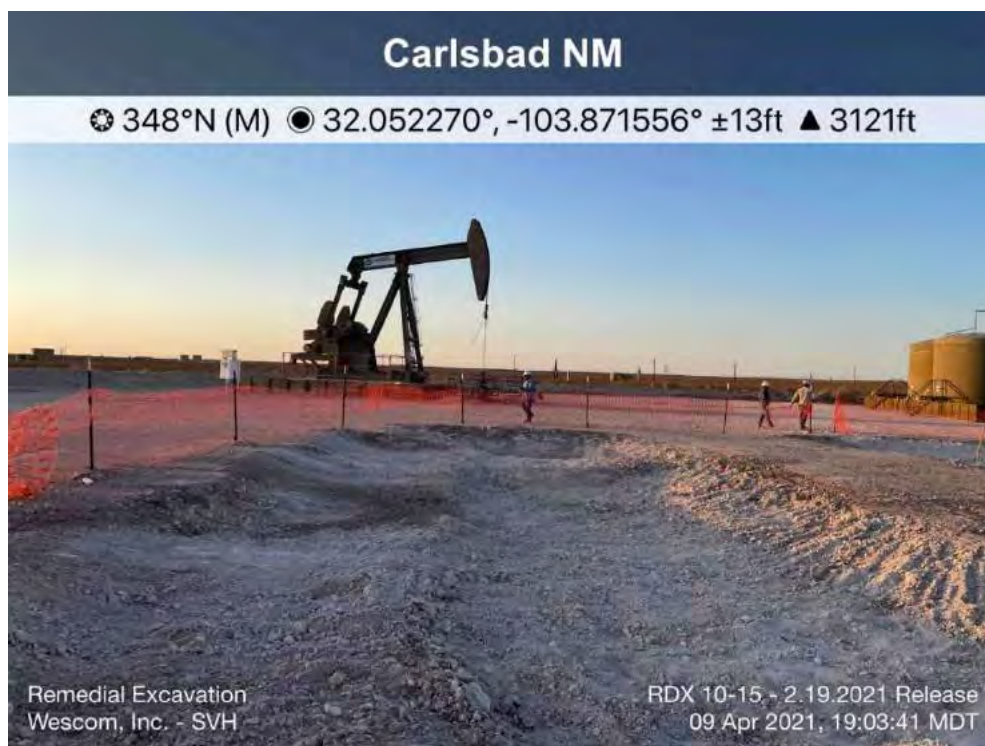
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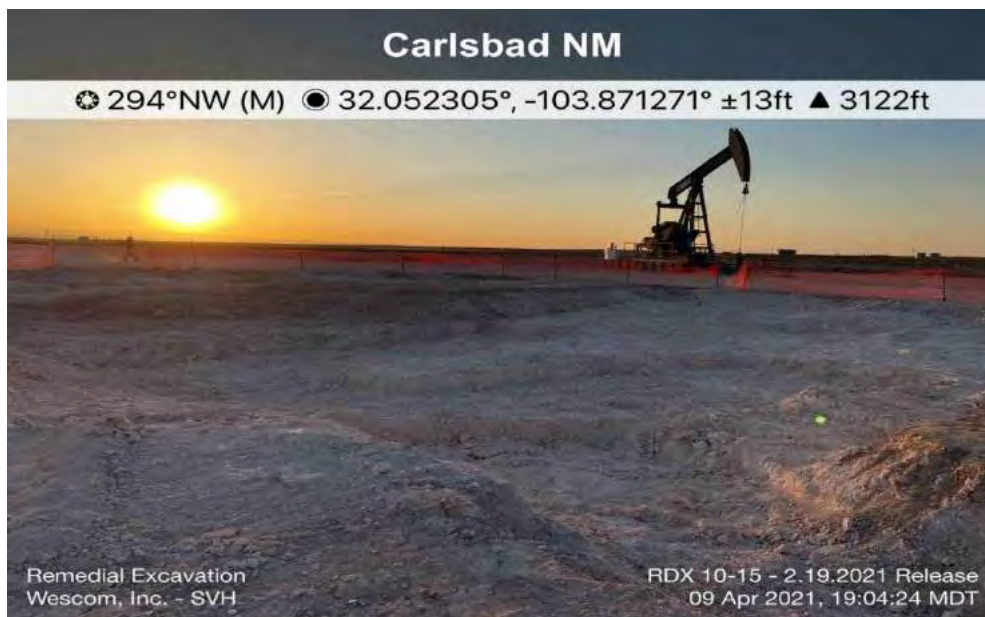
RDX Federal 10 #015
Incident ID: nAPP2105554245



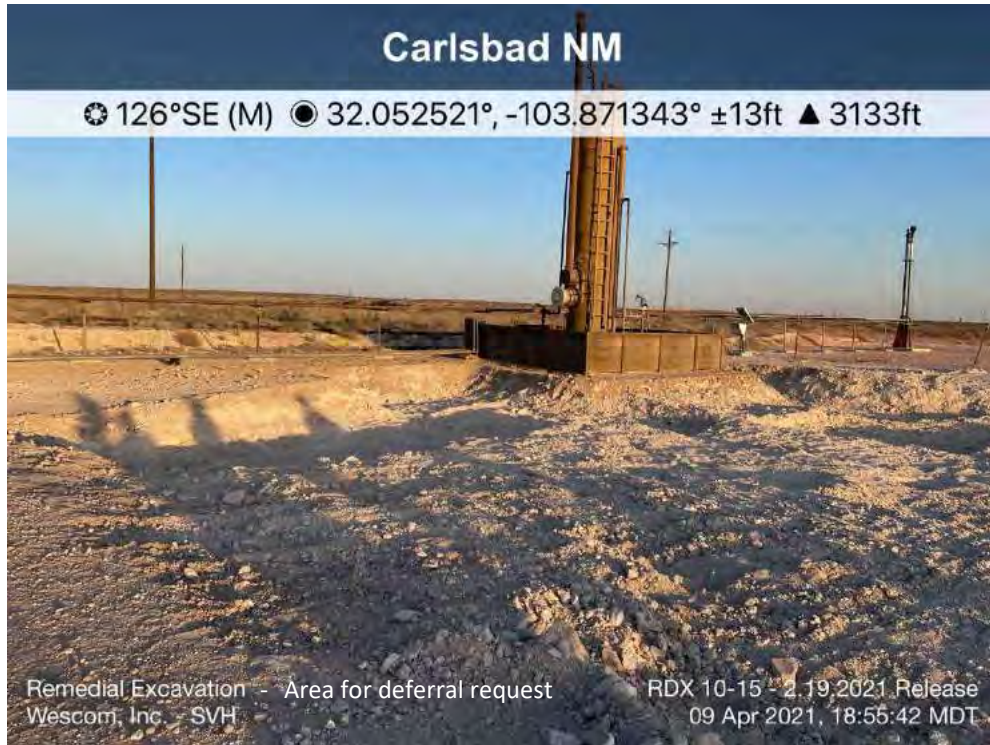
RDX Federal 10 #015
Incident ID: nAPP2105554245

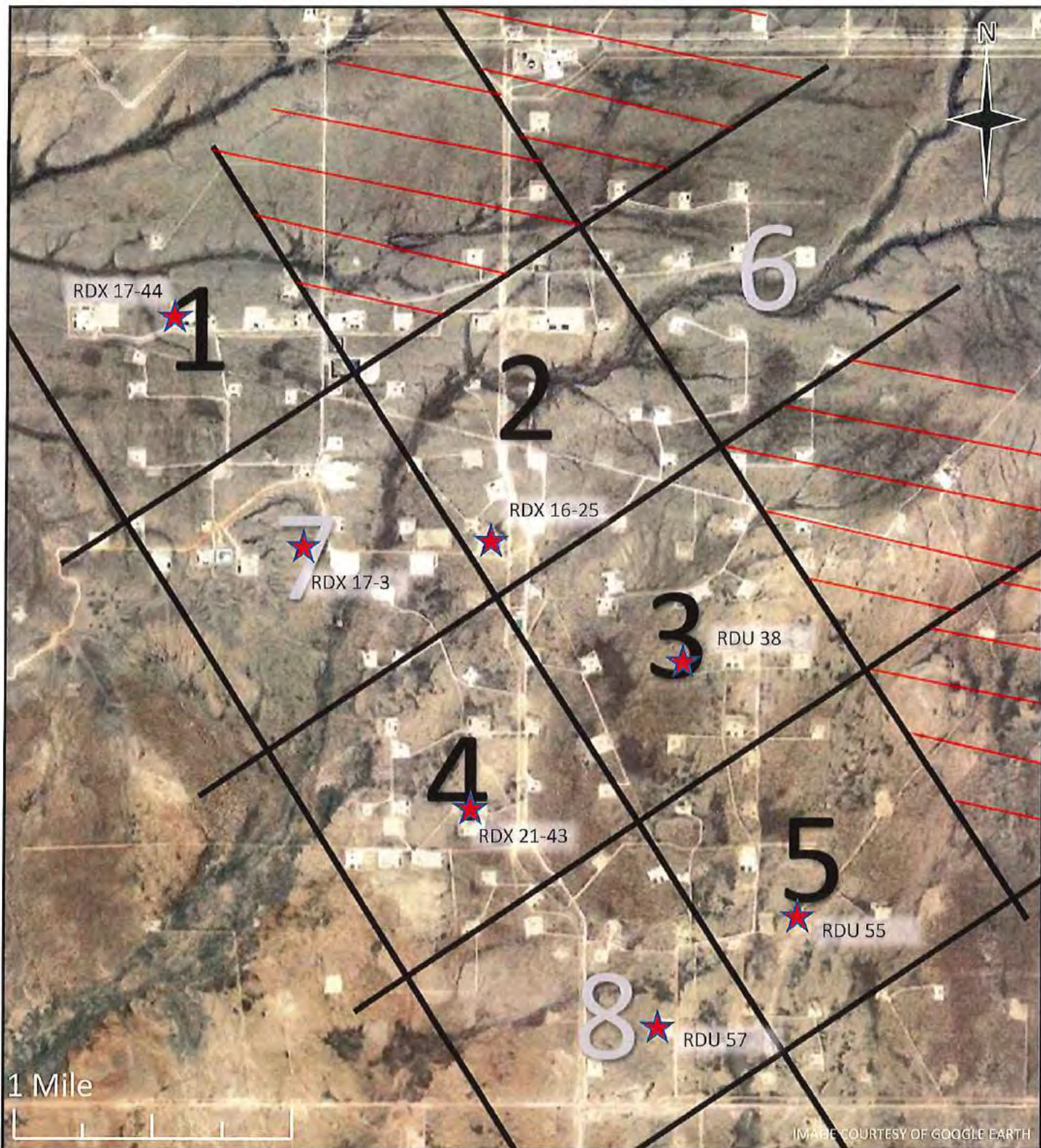


RDX Federal 10 #015
Incident ID: nAPP2105554245



RDX Federal 10 #015
Incident ID: nAPP210554245





Depth to Groundwater Determinations
RDX/ RDU Area

Permian Basin, Eddy County, NM




Figure 01

HRL COMPLIANCE SOLUTIONS		BORING LOG/MONITORING WELL COMPLETION DIAGRAM									
Drilling Method: Air Rotary		Sampling Method: None		Boring/Well Number: MW-1				Location: RDX 16-25			
Gravel Pack Type: 10/20 sand		Gravel Pack Depth Interval: 3 bags		Date: 12/10/2020				Client: WPX Energy			
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-105 feet bgs		Logged By: J. Linn, PG				Drilled By: Talon LPE	
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 105-110 ft		Seal Type: None		Seal Depth Interval: None	
								Boring Total Depth (ft. BGS): 110		Latitude: 32.0399004	
								Well Total Depth (ft. BGS): 110		Longitude: -103.8833368	
								Depth to Water (ft. BTOC): > 110		DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion
0	NM	L	D	N	N	NM	SW	NS	Pale orange to pink tan well graded sand with silt		
5											
10											
15											
20	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand		
25											
30											
35											
40	NM	L	D	N	N	NM	SW	NS	Orange to pale red well graded sand with gravel		
45											
50	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand		
55											
60	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand with minor medium and coarse sand - TD: 110' bgs		
65											
70											
75											
80											
85											
90											
95											
100											
105											
110											

RDX Federal 10-15

Distance to Nearest Depth to Water Point = 1.12 Miles

Legend

-  Distance= 1.12 miles
-  DTW= >110ft - NW-1-RDX 16-25
-  RDX Federal 10-15

DTW= >110ft - NW-1-RDX 16-25

RDX Federal 10-15





RDX 10-15 - Wetland 16,390.7 ft



February 22, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



RDX Federal 10-15 - Riverine 570.9 ft



April 14, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



RDX Federal 10-15 - FW Pond 5,224.6 ft



April 14, 2021

Wetlands

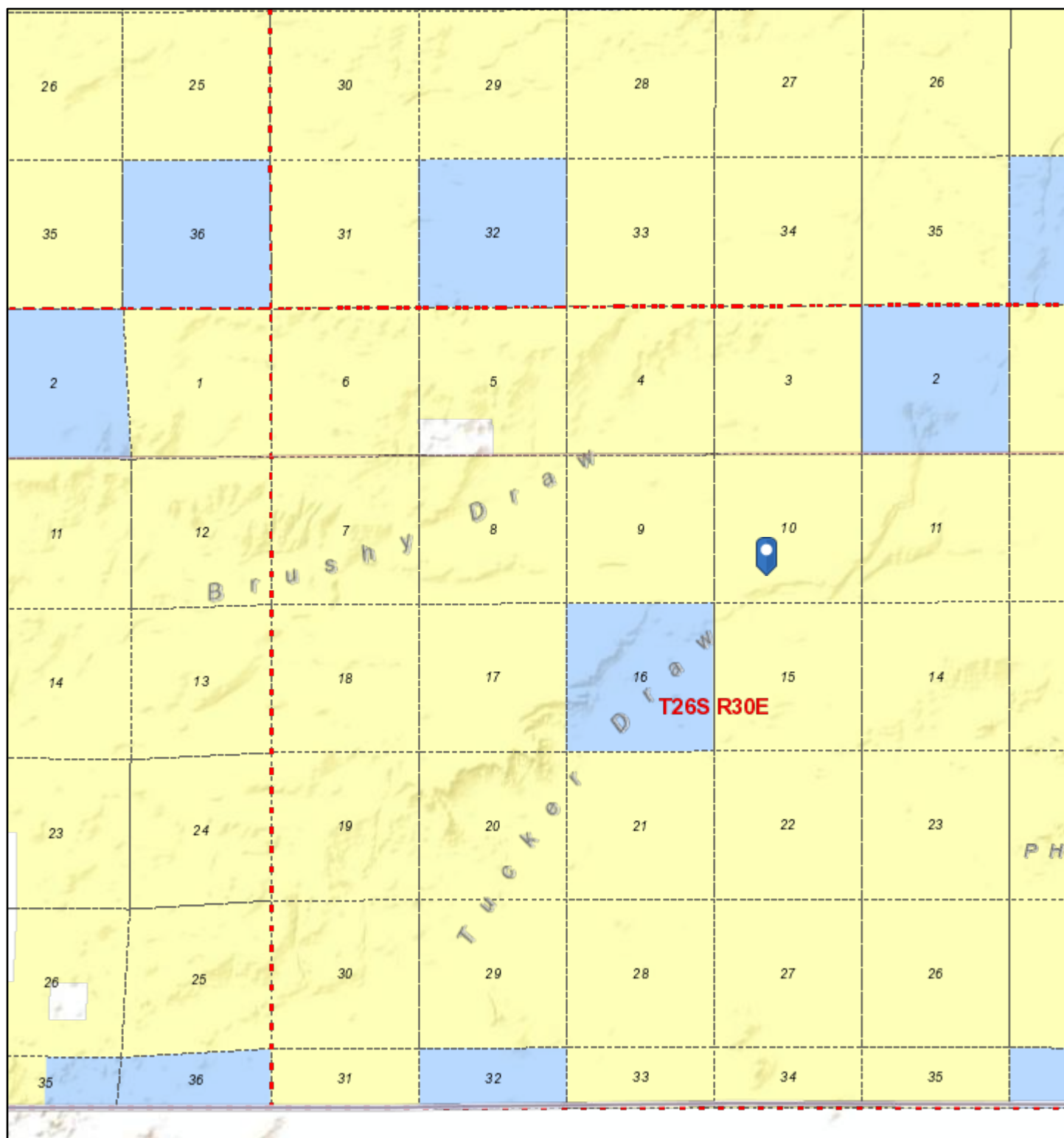
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

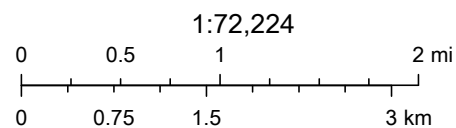
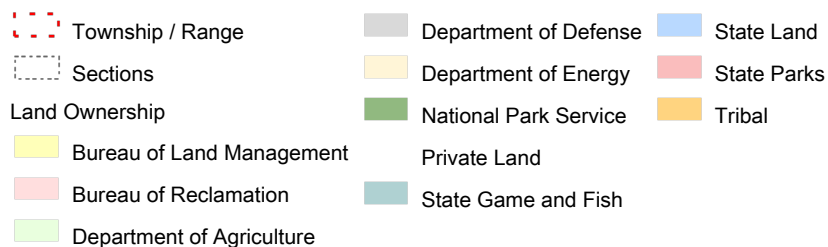
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Active Mines Near RDX Federal 10-15



4/14/2021, 8:23:04 AM

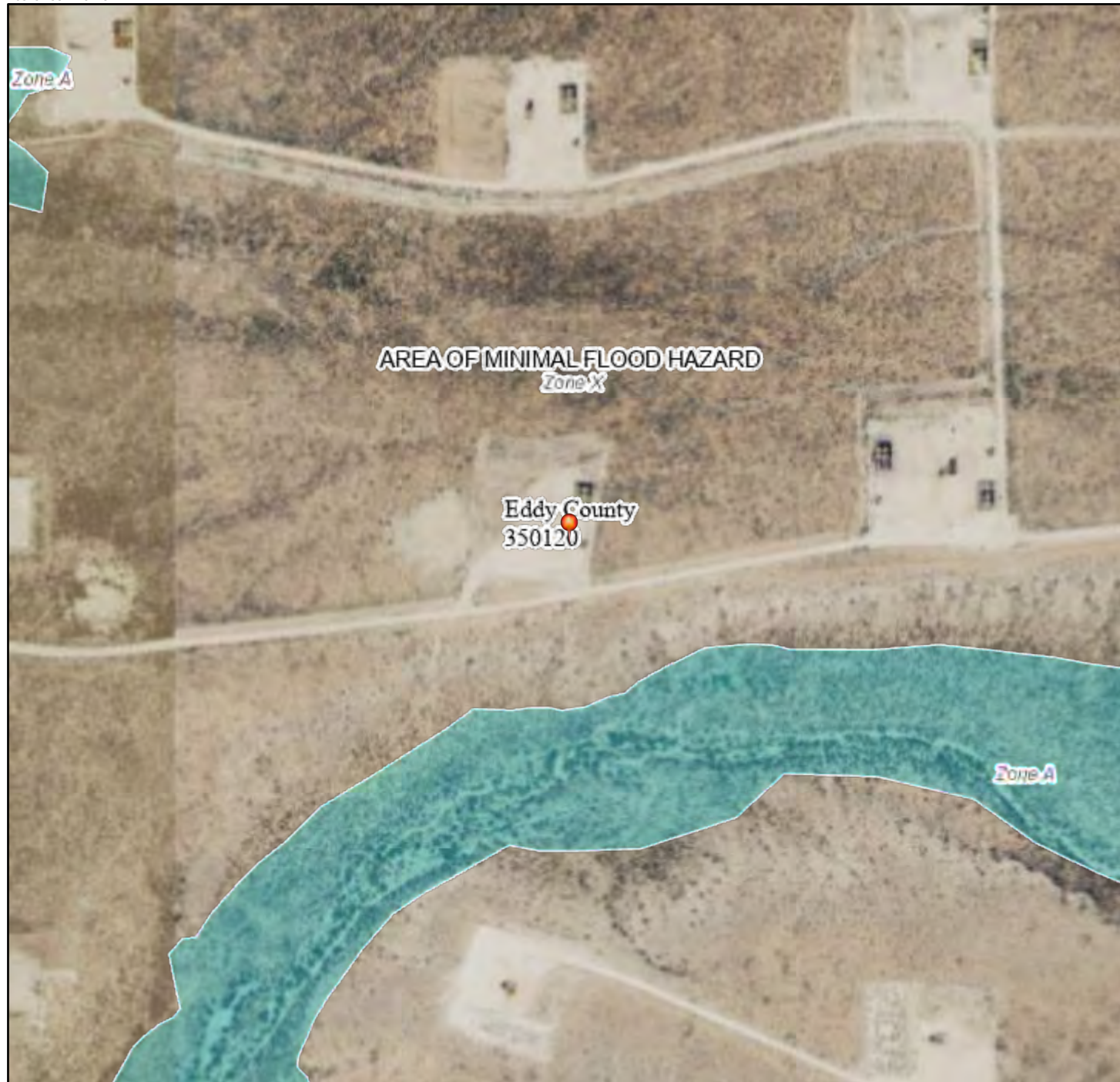


U.S. Bureau of Land Management - New Mexico State Office, Sources:
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMette



103°52'35"W 32°3'24"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°51'58"W 32°2'53"N

Released to Imaging: 7/14/2021 2:36:59 PM Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/14/2021 at 10:26 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

RDX Federal 10-15

Karst Potential = Medium

Legend

- High
- Low
- Medium
- RDX Federal 10-15

RDX Federal 10-15



Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 10-15 2.19.2021 Spill

Work Order: E103008

Job Number: 04108-0639

Received: 3/2/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/8/21

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 NM009792018-1 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 3/8/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: RDX 10-15 2.19.2021 Spill
Workorder: E103008
Date Received: 3/2/2021 11:40:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/2/2021 11:40:00AM, under the Project Name: RDX 10-15 2.19.2021 Spill.

The analytical test results summarized in this report with the Project Name: RDX 10-15 2.19.2021 Spill 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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Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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 10-15 2.19.2021 Spill Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 03/08/21 15:33
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-2'	E103008-01A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS02-2'	E103008-02A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS03-2'	E103008-03A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS04-2'	E103008-04A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
BG01-0'	E103008-05A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS10-0'	E103008-06A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS11-0'	E103008-07A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS13-0'	E103008-08A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS14-0'	E103008-09A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.
SS15-0'	E103008-10A	Soil	02/24/21	03/02/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS01-2'

E103008-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
	93.9 %	50-200		03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	68.1	20.0	1	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS02-2'

E103008-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	67.2	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
		96.9 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	133	20.0	1	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS03-2'

E103008-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	369	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	161	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
		89.2 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	375	20.0	1	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS04-2'

E103008-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	43.4	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
		92.0 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	82.8	20.0	1	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

BG01-0'

E103008-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
		96.1 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	ND	20.0	1	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS10-0'

E103008-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110033
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2110032
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
	87.0 %	50-200		03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110035
Chloride	3740	40.0	2	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS11-0'

E103008-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
	84.7 %	50-200		03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	10700	100	5	03/04/21	03/04/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS13-0'

E103008-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/21	03/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/04/21	
<i>Surrogate: n-Nonane</i>						
	94.2 %	50-200		03/04/21	03/04/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	212	20.0	1	03/04/21	03/05/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS14-0'

E103008-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	0.0487	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	0.173	0.0500	1	03/04/21	03/05/21	
o-Xylene	0.0608	0.0250	1	03/04/21	03/05/21	
Total Xylenes	0.234	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2110032	
Diesel Range Organics (C10-C28)	1720	25.0	1	03/04/21	03/05/21	
Oil Range Organics (C28-C35)	723	50.0	1	03/04/21	03/05/21	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	03/04/21	03/05/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2110035	
Chloride	3380	40.0	2	03/04/21	03/05/21	



Sample Data

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

Project Name: RDX 10-15 2.19.2021 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
3/8/2021 3:33:21PM

SS15-0'

E103008-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110033
Benzene	ND	0.0250	1	03/04/21	03/05/21	
Toluene	ND	0.0250	1	03/04/21	03/05/21	
Ethylbenzene	ND	0.0250	1	03/04/21	03/05/21	
p,m-Xylene	ND	0.0500	1	03/04/21	03/05/21	
o-Xylene	ND	0.0250	1	03/04/21	03/05/21	
Total Xylenes	ND	0.0250	1	03/04/21	03/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2110032
Diesel Range Organics (C10-C28)	25.6	25.0	1	03/04/21	03/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/04/21	03/05/21	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	03/04/21	03/05/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2110035
Chloride	3090	40.0	2	03/04/21	03/05/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 10-15 2.19.2021 Spill	Reported:
6488 7 Rivers Hwy	Project Number:	04108-0639	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/8/2021 3:33:21PM

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 (2110033-BLK1)

Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

LCS (2110033-BS1)

Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
o-Xylene	5.33	0.0250	5.00		107	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

Matrix Spike (2110033-MS1)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	5.03	0.0250	5.00	ND	101	54-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
o-Xylene	5.17	0.0250	5.00	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			

Matrix Spike Dup (2110033-MSD1)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	5.25	0.0250	5.00	ND	105	54-133	4.31	20	
Toluene	5.36	0.0250	5.00	ND	107	61-130	3.10	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	2.65	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.67	20	
o-Xylene	5.32	0.0250	5.00	ND	106	63-131	2.95	20	
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131	2.77	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 10-15 2.19.2021 Spill	Reported:
6488 7 Rivers Hwy	Project Number:	04108-0639	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/8/2021 3:33:21PM

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 (2110033-BLK1)

Prepared: 03/04/21 Analyzed: 03/05/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

LCS (2110033-BS2)

Prepared: 03/04/21 Analyzed: 03/05/21

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.1	70-130			

Matrix Spike (2110033-MS2)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/05/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			

Matrix Spike Dup (2110033-MSD2)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/05/21

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	0.126	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 10-15 2.19.2021 Spill	Reported:
6488 7 Rivers Hwy	Project Number:	04108-0639	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/8/2021 3:33:21PM

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 (2110032-BLK1)

Prepared: 03/04/21 Analyzed: 03/04/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.5	50-200			

LCS (2110032-BS1)

Prepared: 03/04/21 Analyzed: 03/04/21

Diesel Range Organics (C10-C28)	474	25.0	500		94.8	38-132			
Surrogate: n-Nonane	44.6		50.0		89.3	50-200			

Matrix Spike (2110032-MS1)

Source: E103008-05 Prepared: 03/04/21 Analyzed: 03/04/21

Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132			
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

Matrix Spike Dup (2110032-MSD1)

Source: E103008-05 Prepared: 03/04/21 Analyzed: 03/04/21

Diesel Range Organics (C10-C28)	482	25.0	500	ND	96.3	38-132	0.986	20	
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 10-15 2.19.2021 Spill	Reported:
6488 7 Rivers Hwy	Project Number:	04108-0639	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/8/2021 3:33:21PM

Anions by EPA 300.0/9056A

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 (2110035-BLK1)

Prepared: 03/04/21 Analyzed: 03/04/21

Chloride	ND	20.0							
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LCS (2110035-BS1)

Prepared: 03/04/21 Analyzed: 03/04/21

Chloride	249	20.0	250		99.4	90-110			
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Matrix Spike (2110035-MS1)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/04/21

Chloride	315	20.0	250	68.1	98.9	80-120			
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Matrix Spike Dup (2110035-MSD1)

Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/04/21

Chloride	317	20.0	250	68.1	99.5	80-120	0.408	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 10-15 2.19.2021 Spill	
6488 7 Rivers Hwy	Project Number:	04108-0639	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/08/21 15:33

- 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: <u>Devon</u>					Bill To					Lab Use Only				TAT				EPA Program			
Project: <u>RDX 10-15 2.19.2021 Spill</u>					Attention: <u>Jim Raley</u>					Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>Ashley Giovengo</u>					Address: <u>5315 Buena Vista Dr.</u>					E10300804080039							X				
Address: <u>1224 Standpipe Rd</u>					City, State, Zip: <u>Carlsbad, NM 88220</u>					Analysis and Method										RCRA	
City, State, Zip: <u>Carlsbad, NM 88220</u>					Phone: <u>(505) 382-1211</u>																
Phone: <u>(505) 382-1211</u>					Email: <u>james.raley@wpenergy.com</u>																
Email: <u>ashley.giovengo@wescominc.com</u>																					
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ATEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks							
10:45	2/24	S	1 jar	SS01-2'	1							X									
11:00	2/24	S	1 jar	SS02-2'	2							X									
11:10	2/24	S	1 jar	SS03-2'	3							X									
11:15	2/24	S	1 jar	SS04-2'	4							X									
13:29	2/24	S	1 jar	BG01-0'	5							X									
08:12	2/24	S	1 jar	SS10-0'	6							X									
08:18	2/24	S	1 jar	SS11-0'	7							X									
08:30	2/24	S	1 jar	SS13-0'	8							X									
08:35	2/24	S	1 jar	SS14-0'	9							X									
08:40	2/24	S	1 jar	SS15-0'	10							X									
Additional Instructions: <u>email shar.harvester@wescominc.com along w/ Ashley please</u>																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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 5 °C on subsequent days.																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
<u>[Signature]</u>		3/1/2021	9:14am	<u>[Signature]</u>		3-1-21	9:14	Received on ice: <u>Y</u> / N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
<u>[Signature]</u>		3-1-21	1600	<u>[Signature]</u>		3/2/21	11:40														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
<u>[Signature]</u>				<u>[Signature]</u>																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



envirotech

Envirotech Analytical Laboratory

Printed: 3/3/2021 1:29:37PM

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:	03/02/21 11:40	Work Order ID:	E103008
Phone:	(505) 382-1211	Date Logged In:	03/02/21 15:45	Logged In By:	Alexa Michaels
Email:	ashley.giovento@wescominc.com	Due Date:	03/08/21 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Fed Ex**Comments/Resolution**

coc was received with white-out markings down the btex and chloride columns as corrections on requested analysis were made prior to being received from the lab.

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Email- shar.harvester@wescominc.com
ashley.giovento@wescominc.com

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

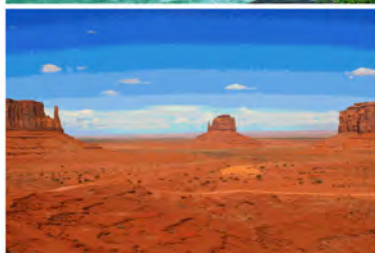
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 10-15 02.19.21 Spill

Work Order: E104052

Job Number: 04108-0639

Received: 4/10/2021

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/21

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/16/21

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 10-15 02.19.21 Spill
Workorder: E104052
Date Received: 4/10/2021 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2021 12:00:00PM, under the Project Name: RDX Federal 10-15 02.19.21 Spill.

The analytical test results summarized in this report with the Project Name: RDX Federal 10-15 02.19.21 Spill 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,

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX Federal 10-15 02.19.21 Spill Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 04/16/21 14:20
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01-3'	E104052-01A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF02-0.5'	E104052-02A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF03-1'	E104052-03A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF04-1'	E104052-04A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF05-1'	E104052-05A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF06-1'	E104052-06A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF07-0.5'	E104052-07A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF08-1'	E104052-08A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF10-1'	E104052-09A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF11-1'	E104052-10A	Soil	04/07/21	04/10/21	Glass Jar, 4 oz.
CONF13-2'	E104052-11A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF14-2'	E104052-12A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF17-2'	E104052-13A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF18-2'	E104052-14A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF19-2'	E104052-15A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF20-1'	E104052-16A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF21-1'	E104052-17A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF22-1'	E104052-18A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF23-1'	E104052-19A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF24-1'	E104052-20A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF01-3'

E104052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: JL		Batch: 2116012	
Benzene	ND	0.0250	1	04/12/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/13/21	
Toluene	ND	0.0250	1	04/12/21	04/13/21	
o-Xylene	ND	0.0250	1	04/12/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/13/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2116012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/13/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/12/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HT		Batch: 2116016	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		93.1 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2116021	
Chloride	ND	200	10	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF02-0.5'

E104052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.2 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		95.3 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	250	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF03-1'

E104052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		90.3 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	115	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF04-1'

E104052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		93.7 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	140	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF05-1'

E104052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		86.5 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	65.6	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF06-1'

E104052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.8 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		89.1 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	766	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF07-0.5'

E104052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		97.0 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	316	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF08-1'

E104052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		95.9 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	74.4	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF10-1'

E104052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.8 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	215	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF11-1'

E104052-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		93.0 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	81.2	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF13-2'

E104052-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.6 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	96.0 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	96.9	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF14-2'

E104052-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.7 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		94.8 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	119	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF17-2'

E104052-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.0 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		94.4 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	371	200	10	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF18-2'

E104052-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	98.1 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	74.9	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF19-2'

E104052-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.6 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	ND	200	10	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF20-1'

E104052-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	96.6 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	104	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF21-1'

E104052-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	90.3 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	141	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF22-1'

E104052-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	88.1	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF23-1'

E104052-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	94.4 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	68.9	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/16/2021 2:20:44PM

CONF24-1'

E104052-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Benzene	ND	0.0250	1	04/12/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/12/21	04/14/21	
Toluene	ND	0.0250	1	04/12/21	04/14/21	
o-Xylene	ND	0.0250	1	04/12/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116021
Chloride	119	20.0	1	04/14/21	04/15/21	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/16/2021 2:20:44PM

Volatile Organics by EPA 8021B

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 (2116012-BLK1)

Prepared: 04/12/21 Analyzed: 04/13/21

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	7.99		8.00		99.9	70-130			

LCS (2116012-BS1)

Prepared: 04/12/21 Analyzed: 04/13/21

Benzene	4.47	0.0250	5.00		89.4	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.54	0.0250	5.00		90.9	70-130			
o-Xylene	4.50	0.0250	5.00		90.0	70-130			
p,m-Xylene	8.86	0.0500	10.0		88.6	70-130			
Total Xylenes	13.4	0.0250	15.0		89.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			

Matrix Spike (2116012-MS1)

Source: E104052-01 Prepared: 04/12/21 Analyzed: 04/14/21

Benzene	5.19	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.27	0.0250	5.00	ND	105	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike Dup (2116012-MSD1)

Source: E104052-01 Prepared: 04/12/21 Analyzed: 04/14/21

Benzene	5.00	0.0250	5.00	ND	100	54-133	3.64	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	3.77	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	3.97	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	4.01	20	
p,m-Xylene	9.85	0.0500	10.0	ND	98.5	63-131	3.73	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131	3.83	20	
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/16/2021 2:20:44PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2116012-BLK1)

Prepared: 04/12/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			

LCS (2116012-BS2)

Prepared: 04/12/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.2	70-130			

Matrix Spike (2116012-MS2)

Source: E104052-01 Prepared: 04/12/21 Analyzed: 04/14/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike Dup (2116012-MSD2)

Source: E104052-01 Prepared: 04/12/21 Analyzed: 04/14/21

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	0.302	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/16/2021 2:20:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HT

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 (2116016-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	50.0		50.0		100	50-200			

LCS (2116016-BS1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	473	25.0	500		94.7	38-132			
Surrogate: n-Nonane	46.5		50.0		92.9	50-200			

Matrix Spike (2116016-MS1)

Source: E104052-04 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	480	25.0	500	ND	95.9	38-132			
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

Matrix Spike Dup (2116016-MSD1)

Source: E104052-04 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	488	25.0	500	ND	97.6	38-132	1.70	20	
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/16/2021 2:20:44PM

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 (2116021-BLK1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride ND 20.0

LCS (2116021-BS1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 245 20.0 250 98.0 90-110

Matrix Spike (2116021-MS1)

Source: E104052-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 342 200 250 ND 137 80-120 M5

Matrix Spike Dup (2116021-MSD1)

Source: E104052-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 338 200 250 ND 135 80-120 1.06 20 M5

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 10-15 02.19.21 Spill	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/16/21 14:20

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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.


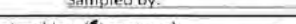

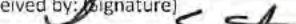


Project Information

Client: <u>WPX Energy Permian, LLC</u>		Bill To		Lab Use Only				TAT				EPA Program				
Project: <u>EDX Federal 10-15 02-19-21</u>		Attention: <u>Jim Raley</u>		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: <u>Ashley Giovengo</u>		Address: <u>5315 Buena Vista Dr.</u>		<u>E104052</u>		<u>041080039</u>					X					
Address: <u>1224 Standpipe Rd</u>		City, State, Zip: <u>Carlsbad, NM 88220</u>		Analysis and Method									RCRA			
City, State, Zip: <u>Carlsbad, N.M. 88220</u>		Phone: <u>(575) 489-7597</u>		Q by 8015	Q by 8015	8021	1260	010	000E	NM	TX	State				
Phone: <u>(505) 382-1211</u>		Email: <u>james.raley@wpenergy.com</u>										NM	CO	UT	AZ	TX
Email: <u>ashley.giovengo@wescominc.com</u>		Report due by:										✓				

[illegible]

Additional Instructions: Preserved on ice, cc shar. harvester@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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 5 °C on subsequent days.											
Relinquished by: (Signature) 						Date 04/9/21		Time 01:24 pm		Received by: (Signature) 		Date 4.9.21		Time 1324		Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature) 						Date 4.9.21		Time 1345		Received by: (Signature) 		Date 4/10/21		Time 12:00		T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature) _____						Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		AVG Temp °C 4	

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.



Project Information

Chain of Custody

Page 2 of 4

Client: WPX Energy Permian, LLC
 Project: PDX Federal 10-15 02.19.21
 Project Manager: Ashley Giavengo
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, N.M. 88220
 Phone: (505) 382-1211
 Email: ashley.giavengo@wescom
 Report due by: inc.com

Bill To
 Attention: Jim Raley
 Address: 5315 Buenavista Dr.
 City, State, Zip: Carlsbad, N.M. 88220
 Phone: (575) 489-7597
 Email: james.raley@wp
energy.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E104052</u>	<u>041080039</u>				<u>✓</u>		
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>					Remarks		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
<u>0:23 am</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 13 - 2'</u>	<u>11</u>
<u>10:40 am</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 14 - 2'</u>	<u>12</u>
<u>11:15 am</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 17 - 2'</u>	<u>13</u>
<u>11:17 am</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 18 - 2'</u>	<u>14</u>
<u>11:20 am</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 19 - 2'</u>	<u>15</u>
<u>12:19 pm</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 20 - 1'</u>	<u>16</u>
<u>12:20 pm</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 21 - 1'</u>	<u>17</u>
<u>12:34 pm</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 22 - 1'</u>	<u>18</u>
<u>12:30 pm</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 23 - 1'</u>	<u>19</u>
<u>12:54 pm</u>	<u>04/8/21</u>	<u>S</u>	<u>1 jar</u>	<u>CONF 24 - 1'</u>	<u>20</u>

Additional Instructions: Preserved on ice, cc shar. harvester@wescominc.com

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>04/11/21</u>	<u>01:24 pm</u>	<u>[Signature]</u>	<u>4.9.21</u>	<u>1324</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>4.9.21</u>	<u>1345</u>	<u>[Signature]</u>	<u>4/10/21</u>	<u>12:00</u>
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>

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 4/12/2021 10:43:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	04/10/21 12:00	Work Order ID:	E104052
Phone:	(539) 573-4018	Date Logged In:	04/12/21 10:27	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wesominc.com	Due Date:	04/16/21 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Lynn EstesComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 10-15 02.19.21 Spill

Work Order: E104053

Job Number: 04108-0639

Received: 4/10/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/15/21

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/15/21

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 10-15 02.19.21 Spill
Workorder: E104053
Date Received: 4/10/2021 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2021 12:00:00PM, under the Project Name: RDX Federal 10-15 02.19.21 Spill.

The analytical test results summarized in this report with the Project Name: RDX Federal 10-15 02.19.21 Spill 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 Office:

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

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 10-15 02.19.21 Spill Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 04/15/21 13:13
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF25-1'	E104053-01A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF26-1'	E104053-02A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF27-1'	E104053-03A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF28-1'	E104053-04A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF29-2'	E104053-05A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF30-2'	E104053-06A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF31-1'	E104053-07A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF33-2'	E104053-08A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF34-2'	E104053-09A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF35-1'	E104053-10A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF36-1'	E104053-11A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF37-1'	E104053-12A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.
CONF38-2'	E104053-13A	Soil	04/08/21	04/10/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF25-1'

E104053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	104 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HT		Batch: 2116018	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2116024	
Chloride	60.6	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF26-1'

E104053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	130	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF27-1'

E104053-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		99.5 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	166	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF28-1'

E104053-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	153	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF29-2'

E104053-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	49.8	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF30-2'

E104053-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HT		Batch: 2116018	
Diesel Range Organics (C10-C28)	56.3	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>		106 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2116024	
Chloride	194	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF31-1'

E104053-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	117	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF33-2'

E104053-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/13/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/13/21	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	210	200	10	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF34-2'

E104053-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HT		Batch: 2116018	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>		104 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2116024	
Chloride	279	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF35-1'

E104053-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	275	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF36-1'

E104053-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	108	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF37-1'

E104053-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	57.9	20.0	1	04/14/21	04/14/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
4/15/2021 1:13:23PM

CONF38-2'

E104053-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2116014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HT		Batch: 2116018	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
<i>Surrogate: n-Nonane</i>		104 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2116024	
Chloride	396	20.0	1	04/14/21	04/15/21	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/15/2021 1:13:23PM

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 (2116014-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

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	8.14		8.00		102	70-130			

LCS (2116014-BS1)

Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.71	0.0250	5.00		94.1	70-130			
o-Xylene	4.65	0.0250	5.00		93.1	70-130			
p,m-Xylene	9.22	0.0500	10.0		92.2	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

Matrix Spike (2116014-MS1)

Source: E104053-01 Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133			
Toluene	5.18	0.0250	5.00	ND	104	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

Matrix Spike Dup (2116014-MSD1)

Source: E104053-01 Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	4.68	0.0250	5.00	ND	93.7	54-133	8.18	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.7	61-133	8.34	20	
Toluene	4.75	0.0250	5.00	ND	95.0	61-130	8.68	20	
o-Xylene	4.73	0.0250	5.00	ND	94.6	63-131	8.28	20	
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	63-131	8.17	20	
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131	8.21	20	
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/15/2021 1:13:23PM

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 (2116014-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		8.00		102	70-130			

LCS (2116014-BS2)

Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

Matrix Spike (2116014-MS2)

Source: E104053-01 Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		8.00		102	70-130			

Matrix Spike Dup (2116014-MSD2)

Source: E104053-01 Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	1.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		8.00		104	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/15/2021 1:13:23PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HT

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 (2116018-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2116018-BS1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	453	25.0	500		90.6	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

Matrix Spike (2116018-MS1)

Source: E104053-03 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	473	25.0	500	ND	94.5	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike Dup (2116018-MSD1)

Source: E104053-03 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	462	25.0	500	ND	92.4	38-132	2.25	20	
Surrogate: n-Nonane	50.1		50.0		100	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/15/2021 1:13:23PM

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 (2116024-BLK1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride ND 20.0

LCS (2116024-BS1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 242 20.0 250 96.7 90-110

Matrix Spike (2116024-MS1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 306 20.0 250 60.6 98.0 80-120

Matrix Spike Dup (2116024-MSD1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 320 20.0 250 60.6 104 80-120 4.47 20

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/15/21 13:13

- 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: 7/14/2021 2:56:39 PM

Received by OCD: 6/24/2021 2:57:11 PM

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Project Information

Chain of Custody

Client: WPX Energy Permian, LLC
Project: RDX Federal 10-15 02.19.21
Project Manager: Ashley Giovengo
Address: 1224 Standpipe Rd
City, State, Zip: Carlsbad, N.M. 88220
Phone: (505) 382-1211
Email: ashley.giovengo@wescom
Report due by: inc.com

Bill To
Attention: Jim Raley
Address: 5315 Buena Vista Dr.
City, State, Zip: Carlsbad, N.M. 88220
Phone: (575) 489-7597
Email: james.raley@wpenergy.com

Lab Use Only
Lab WO# E104053
Job Number 041080039
TAT
1D 2D 3D Standard X
EPA Program
CWA SDWA
RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
12:50	04/8/21	S	1 jar	CONF25-1'	21							X		
2:15 pm	04/8/21	S	1 jar	CONF26-1'	22							X		
3:27 pm	04/8/21	S	1 jar	CONF27-1'	23							X		
03:30 pm	04/8/21	S	1 jar	CONF28-1'	24							X		
04:48 pm	04/8/21	S	1 jar	CONF29-2'	25							X		
04:51 pm	04/8/21	S	1 jar	CONF30-2'	26							X		
02:39 pm	04/8/21	S	1 jar	CONF31-1'	27							X		
05:30 pm	04/8/21	S	1 jar	CONF33-2'	28							X		
05:33 pm	04/8/21	S	1 jar	CONF34-2'	29							X		
04:22 pm	04/8/21	S	1 jar	CONF35-1'	30							X		

Additional Instructions: Preserved on ice, cc shar. harvester@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Sampled by:						Lab Use Only					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4					

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

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


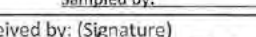
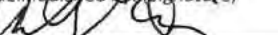
Project Information

Chain of Custody

Client: WPX Energy Permian, LLC	Bill To	Lab Use Only					TAT				EPA Program	
Project: RDX Federal 10-15 02.19.21	Attention: Jim Raley	Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovensospiil	Address: 5315 Buena Vista Dr.	E104053		041080039						X		
Address: 1224 Standpipe Rd	City, State, Zip: Carlsbad, NM 88220	Analysis and Method										RCRA
City, State, Zip: Carlsbad, NM 88220	Phone: (505) 689-7597											
Phone: (505) 382-1211	Email: james.raley@wpx											
Email: ashley.giovensospiil@wescom	energy.com											
Report due by: inc.com												

[illegible]

Additional Instructions: reserved on ice, cc shar. harvester @ wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature) 						Date 04/19/21		Time 01:24 pm		Received by: (Signature) 		Date 4.9.12		Time 1324		Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature) 						Date 4-9-21		Time 1345		Received by: (Signature) 		Date 4/12/21		Time 12:00		T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature) _____						Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		AVG Temp °C <u>4</u>	

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 4/12/2021 10:48:14AM

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:	04/10/21 12:00	Work Order ID:	E104053
Phone:	(539) 573-4018	Date Logged In:	04/12/21 10:30	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wesominc.com	Due Date:	04/16/21 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Lynn Estes**Comments/Resolution**

Project : RDX Federal 10-15 02.19.21 Spill has been divided into 2 work orders due to sample quantity. Samples 1-20 will be on WO - E104052 and samples 21-33 will be on WO - E104053

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

WPX Energy - Carlsbad

Project Name: RDX Federal 10-15 02.19.21 Spill

Work Order: E104054

Job Number: 04108-0136

Received: 4/13/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/21

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/19/21

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 10-15 02.19.21 Spill
Workorder: E104054
Date Received: 4/13/2021 8:50:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2021 8:50:00AM, under the Project Name: RDX Federal 10-15 02.19.21 Spill.

The analytical test results summarized in this report with the Project Name: RDX Federal 10-15 02.19.21 Spill 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 Office:

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

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 10-15 02.19.21 Spill Project Number: 04108-0136 Project Manager: Ashley Giovengo	Reported: 04/19/21 16:21
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF09-2'	E104054-01A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF15-2.5'	E104054-02A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0136
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:21:56PM

CONF09-2'

E104054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
<i>Surrogate: Bromofluorobenzene</i>	<i>96.3 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
<i>Surrogate: Toluene-d8</i>	<i>91.4 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
<i>Surrogate: Bromofluorobenzene</i>	<i>96.3 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
<i>Surrogate: Toluene-d8</i>	<i>91.4 %</i>	<i>70-130</i>		<i>04/14/21</i>	<i>04/16/21</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
<i>Surrogate: n-Nonane</i>	<i>94.6 %</i>	<i>50-200</i>		<i>04/15/21</i>	<i>04/15/21</i>	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	130	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 04108-0136
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:21:56PM

CONF15-2.5'

E104054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.4 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.4 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	97.3 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	186	20.0	1	04/14/21	04/15/21	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0136	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:21:56PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2116019-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

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: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2116019-BS1)

Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.31	0.0250	2.50		92.5	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.3	70-130			
Toluene	2.37	0.0250	2.50		94.6	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.64	0.0500	5.00		92.7	70-130			
Total Xylenes	6.97	0.0250	7.50		93.0	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2116019-MS1)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.41	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2116019-MSD1)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.29	0.0250	2.50	ND	91.7	48-131	4.79	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.2	45-135	4.03	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	3.90	24	
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135	3.68	27	
p,m-Xylene	4.87	0.0500	5.00	ND	97.4	43-135	4.53	27	
Total Xylenes	7.34	0.0250	7.50	ND	97.8	43-135	4.24	27	
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0136	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:21:56PM

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 (2116019-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2116019-BS2)

Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike (2116019-MS2)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	60.7	20.0	50.0	ND	121	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

Matrix Spike Dup (2116019-MSD2)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0	ND	111	70-130	9.04	20	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0136	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:21:56PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HT

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 (2116034-BLK1)

Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2116034-BS1)

Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	467	25.0	500		93.4	38-132			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

Matrix Spike (2116034-MS1)

Source: E104054-01 Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	493	25.0	500	ND	98.5	38-132			
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			

Matrix Spike Dup (2116034-MSD1)

Source: E104054-01 Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	484	25.0	500	ND	96.9	38-132	1.71	20	
Surrogate: n-Nonane	45.8		50.0		91.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	04108-0136	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:21:56PM

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 (2116024-BLK1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride ND 20.0

LCS (2116024-BS1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 242 20.0 250 96.7 90-110

Matrix Spike (2116024-MS1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 306 20.0 250 60.6 98.0 80-120

Matrix Spike Dup (2116024-MSD1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 320 20.0 250 60.6 104 80-120 4.47 20

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	
5315 Buena Vista Dr	Project Number:	04108-0136	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/19/21 16:21

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: WPX Energy Permian, LLC
Project: EDX Federal 10-B 02, 19, 21
Project Manager: Ashley Giovengo
Address: 1224 Steadpipe Rd
City, State, Zip: Carlsbad, N.M. 88220
Phone: (505) 382-1211
Email: ashley.giovengo@wescominc.com
Report due by: 12/1/2014

Bill To
Attention: Jim Raley
Address: 5315 Buena Vista Dr.
City, State, Zip Carlsbad NM 88720
Phone: (575) 489-7597
Email: james.raley@nwpv
energy.com

Additional Instructions: Preserved on ice, please cc shar. harvester@wescominc.com
PO# 23873

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.

Lab Use Only

Received on ice: ☒ N

T1 _____ T2 _____ T3 _____

AVG Temp °C 41

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 4/13/2021 9:55:17AM

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:	04/13/21 08:50	Work Order ID:	E104054
Phone:	(539) 573-4018	Date Logged In:	04/13/21 09:10	Logged In By:	Jessica Liesse
Email:	ashley.giovengo@wesominc.com	Due Date:	04/19/21 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Lab Carrier**Comments/Resolution**

cc shar.harvester@wescominc.com

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? No
 - 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

WPX Energy - Carlsbad

Project Name: RDX Federal 10-15 02.19.21 Spill

Work Order: E104055

Job Number: 21022-0001

Received: 4/13/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/21

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/19/21



Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX Federal 10-15 02.19.21 Spill
Workorder: E104055
Date Received: 4/13/2021 8:51:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2021 8:51:00AM, under the Project Name: RDX Federal 10-15 02.19.21 Spill.

The analytical test results summarized in this report with the Project Name: RDX Federal 10-15 02.19.21 Spill 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 Office:

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

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 10-15 02.19.21 Spill	Reported: 04/19/21 16:24
	Project Number:	21022-0001	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF12-2.5'	E104055-01A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF16-2.5'	E104055-02A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF32-1'	E104055-03A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF39-2.5'	E104055-04A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF40-3' 6"	E104055-05A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF42-Wall	E104055-06A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF43-Wall	E104055-07A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF44-3'	E104055-08A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF45-2'	E104055-09A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF46-3'	E104055-10A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF47-3.5'	E104055-11A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF48-2' 6"	E104055-12A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF49-3.5'	E104055-13A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF52-Wall	E104055-14A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF53-Wall	E104055-15A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF54-Wall	E104055-16A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF50-3'	E104055-17A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF51-3'	E104055-18A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
SS47-0	E104055-19A	Soil	04/09/21	04/13/21	Glass Jar, 4 oz.
CONF55-0.5'	E104055-20A	Soil	04/12/21	04/13/21	Glass Jar, 4 oz.
CONF56-0.5'	E104055-21A	Soil	04/12/21	04/13/21	Glass Jar, 4 oz.
CONF57-0.5'	E104055-22A	Soil	04/12/21	04/13/21	Glass Jar, 4 oz.
CONF58-0.5'	E104055-23A	Soil	04/12/21	04/13/21	Glass Jar, 4 oz.
CONF59-0.5'	E104055-24A	Soil	04/12/21	04/13/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF12-2.5'

E104055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	100 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	100 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	108 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	200	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF16-2.5'

E104055-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.6 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.1 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.6 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.1 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	111 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	130	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF32-1'

E104055-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.7 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	97.7 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.7 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	97.7 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	38.4	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	107 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	298	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF39-2.5'

E104055-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	81.6 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	81.6 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	103 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	219	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF40-3' 6"

E104055-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	97.7 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	97.7 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	109 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	89.7	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF42-Wall

E104055-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	285	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	190	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	108 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	5150	40.0	2	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF43-Wall

E104055-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	97.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	103 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	97.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	103 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116018
Diesel Range Organics (C10-C28)	174	25.0	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	117	50.0	1	04/13/21	04/14/21	
Surrogate: n-Nonane	108 %	50-200		04/13/21	04/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	2270	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF44-3'

E104055-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.2 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.3 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	95.2 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.3 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	97.7 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	145	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF45-2'

E104055-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.7 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.3 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.7 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.3 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	97.6 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	74.4	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF46-3'

E104055-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.1 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	96.8 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	220	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF47-3.5'

E104055-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.2 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	99.2 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	101 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	83.6	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF48-2' 6"

E104055-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	98.5 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	80.4	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF49-3.5'

E104055-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/13/21	04/13/21	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/13/21	04/13/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	103 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	105	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF52-Wall

E104055-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	97.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	96.6 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	97.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	96.6 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	98.0 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	376	40.0	2	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF53-Wall

E104055-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	94.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	95.6 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	94.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	95.6 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	98.1 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	148	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF54-Wall

E104055-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	96.4 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	99.7 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	96.4 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	99.7 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	102 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	138	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF50-3'

E104055-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene		101 %	70-130	04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/13/21	04/14/21	
Surrogate: Toluene-d8		107 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene		101 %	70-130	04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/13/21	04/14/21	
Surrogate: Toluene-d8		107 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane		101 %	50-200	04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	123	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF51-3'

E104055-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	93.7 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	93.7 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	102 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	99.9 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	44.6	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

SS47-0

E104055-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	100 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	100 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	104 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	99.9	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF55-0.5'

E104055-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Benzene	ND	0.0250	1	04/13/21	04/14/21	
Ethylbenzene	ND	0.0250	1	04/13/21	04/14/21	
Toluene	ND	0.0250	1	04/13/21	04/14/21	
o-Xylene	ND	0.0250	1	04/13/21	04/14/21	
p,m-Xylene	ND	0.0500	1	04/13/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/13/21	04/14/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/13/21	04/14/21	
Surrogate: Toluene-d8	101 %	70-130		04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	100 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116022
Chloride	149	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF56-0.5'

E104055-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	94.5 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.8 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	94.5 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.8 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	105 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	141	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF57-0.5'

E104055-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	96.2 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.8 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	96.2 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	99.8 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	106 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	84.9	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF58-0.5'

E104055-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	97.8 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	101 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene	97.8 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8	101 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane	105 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	194	20.0	1	04/14/21	04/15/21	



Sample Data

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

Project Name: RDX Federal 10-15 02.19.21 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
4/19/2021 4:24:24PM

CONF59-0.5'

E104055-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Benzene	ND	0.0250	1	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	04/14/21	04/16/21	
Toluene	ND	0.0250	1	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene		101 %	70-130	04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	04/14/21	04/16/21	
Surrogate: Toluene-d8		106 %	70-130	04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene		101 %	70-130	04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	04/14/21	04/16/21	
Surrogate: Toluene-d8		106 %	70-130	04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/15/21	04/15/21	
Surrogate: n-Nonane		105 %	50-200	04/15/21	04/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2116024
Chloride	257	20.0	1	04/14/21	04/15/21	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2116015-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

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: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2116015-BS1)

Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	2.27	0.0250	2.50		90.9	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.7	70-130			
Toluene	2.32	0.0250	2.50		92.7	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.6	70-130			
Total Xylenes	6.94	0.0250	7.50		92.6	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2116015-MS1)

Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	2.44	0.0250	2.50	ND	97.6	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	105	45-135			
Toluene	2.74	0.0250	2.50	ND	110	48-130			
o-Xylene	2.64	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike Dup (2116015-MSD1)

Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21

Benzene	2.56	0.0250	2.50	ND	102	48-131	4.86	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	2.62	27	
Toluene	2.66	0.0250	2.50	ND	106	48-130	2.95	24	
o-Xylene	2.64	0.0250	2.50	ND	106	43-135	0.227	27	
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135	3.97	27	
Total Xylenes	7.96	0.0250	7.50	ND	106	43-135	2.71	27	
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Volatile Organic Compounds by EPA 8260B

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 (2116019-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

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: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2116019-BS1)

Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.31	0.0250	2.50		92.5	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.3	70-130			
Toluene	2.37	0.0250	2.50		94.6	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.64	0.0500	5.00		92.7	70-130			
Total Xylenes	6.97	0.0250	7.50		93.0	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2116019-MS1)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.41	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2116019-MSD1)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Benzene	2.29	0.0250	2.50	ND	91.7	48-131	4.79	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.2	45-135	4.03	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	3.90	24	
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135	3.68	27	
p,m-Xylene	4.87	0.0500	5.00	ND	97.4	43-135	4.53	27	
Total Xylenes	7.34	0.0250	7.50	ND	97.8	43-135	4.24	27	
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2116015-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS (2116015-BS2)

Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	60.5	20.0	50.0		121	70-130			
Surrogate: Bromofluorobenzene	0.461		0.500		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

Matrix Spike (2116015-MS2)

Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			

Matrix Spike Dup (2116015-MSD2)

Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21

Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	ND	115	70-130	6.75	20	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

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 (2116019-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2116019-BS2)

Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike (2116019-MS2)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	60.7	20.0	50.0	ND	121	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

Matrix Spike Dup (2116019-MSD2)

Source: E104054-01 Prepared: 04/14/21 Analyzed: 04/16/21

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0	ND	111	70-130	9.04	20	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HT

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 (2116018-BLK1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2116018-BS1)

Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	453	25.0	500		90.6	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

Matrix Spike (2116018-MS1)

Source: E104053-03 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	473	25.0	500	ND	94.5	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike Dup (2116018-MSD1)

Source: E104053-03 Prepared: 04/13/21 Analyzed: 04/13/21

Diesel Range Organics (C10-C28)	462	25.0	500	ND	92.4	38-132	2.25	20	
Surrogate: n-Nonane	50.1		50.0		100	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HT

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 (2116034-BLK1)

Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2116034-BS1)

Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	467	25.0	500		93.4	38-132			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

Matrix Spike (2116034-MS1)

Source: E104054-01 Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	493	25.0	500	ND	98.5	38-132			
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			

Matrix Spike Dup (2116034-MSD1)

Source: E104054-01 Prepared: 04/15/21 Analyzed: 04/15/21

Diesel Range Organics (C10-C28)	484	25.0	500	ND	96.9	38-132	1.71	20	
Surrogate: n-Nonane	45.8		50.0		91.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

Anions by EPA 300.0/9056A

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 (2116022-BLK1)

Prepared: 04/14/21 Analyzed: 04/15/21

Chloride ND 20.0

LCS (2116022-BS1)

Prepared: 04/14/21 Analyzed: 04/15/21

Chloride 240 20.0 250 96.1 90-110

Matrix Spike (2116022-MS1)

Source: E104055-01 Prepared: 04/14/21 Analyzed: 04/16/21

Chloride 517 20.0 250 200 127 80-120 M1

Matrix Spike Dup (2116022-MSD1)

Source: E104055-01 Prepared: 04/14/21 Analyzed: 04/16/21

Chloride 466 20.0 250 200 107 80-120 10.2 20



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
5315 Buena Vista Dr	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	4/19/2021 4:24:24PM

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 (2116024-BLK1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride ND 20.0

LCS (2116024-BS1)

Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 242 20.0 250 96.7 90-110

Matrix Spike (2116024-MS1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 306 20.0 250 60.6 98.0 80-120

Matrix Spike Dup (2116024-MSD1)

Source: E104053-01 Prepared: 04/14/21 Analyzed: 04/14/21

Chloride 320 20.0 250 60.6 104 80-120 4.47 20

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	
5315 Buena Vista Dr	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/19/21 16:24

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: WPX Energy Permian, LLC
 Project: RDX Federal 10-15 02-19-21
 Project Manager: Ashley Giovenco
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, NM 88220
 Phone: (505) 382-1211
 Email: ashley.giovenco@wescom
 Report due by: inc.com

Bill To
 Attention: Wescom Inc
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, NM 88220
 Phone: (505) 382-1211
 Email: ashley.giovenco@wescom
 wescominc.com

Lab Use Only
 Lab WO# E 104055
 Job Number 21022-0001
 TAT
 1D 2D 3D Standard
 EPA Program
 CWA SDWA
 RCRA

Analysis and Method
 DRD/DRO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 NM
 CO
 TX
 State
 NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRD/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	CO	TX	Remarks
3:38 PM	04/09/21	S	1 jar	CONF12-2.5'	1							X			
5:51 PM	04/09/21	S	1 jar	CONF16-2.5'	2							X			
02:42 PM	04/09/21	S	1 jar	CONF32-1'	3							X			
07:28 AM	04/09/21	S	1 jar	CONF39-2.5'	4							X			
03:56 PM	04/09/21	S	1 jar	CONF40-3.5"	5							X			
03:23 PM	04/09/21	S	1 jar	CONF42-Wall	6							X			
01:24 PM	04/09/21	S	1 jar	CONF43-Wall	7							X			
01:46 PM	04/09/21	S	1 jar	CONF44-3'	8							X			
11:54 AM	04/09/21	S	1 jar	CONF45-2'	9							X			
11:49 PM	04/09/21	S	1 jar	CONF46-3'	10							X			

Additional Instructions: Preserved on ice, please cc shar. harvester@wescominc.com
 PO # 23881

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4			

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

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

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



envirotech

Client: WEX Energy Permian, LLC
 Project: RDX Federal 10-1502-19-21
 Project Manager: Ashley Giovenco Spill
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, N.M. 88220
 Phone: (505) 382-1211
 Email: ashley.giovenco@wescom
 Report due by: inc.com

Bill To
 Attention: Wescom Inc
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, NM 88220
 Phone: (505) 382-1211
 Email: ashley.giovenco@wescominc.com

Lab Use Only
 Lab WO# E104655 Job Number 21022-0001
 ID 2D 3D Standard X
 Analysis and Method

EPA Program
 CWA SDWA
 RCRA

State
 NM CO UT AZ TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	PRO/DRO by 8015	GRD/DRO by 8015	STEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	
03:03 PM	04/09/21	S	1 jar	CONF 47 - 3.5'	11							X		
04:41 PM	04/09/21	S	1 jar	CONF 48 - 2.5"	12							X		
05:13 PM	04/09/21	S	1 jar	CONF 49 - 3.5'	13							X		
04:50 PM	04/09/21	S	1 jar	CONF 52 - Wall	14							X		
06:17 PM	04/09/21	S	1 jar	CONF 53 - Wall	15							X		
07:07 PM	04/09/21	S	1 jar	CONF 54 - Wall	16							X		
03:52 PM	04/09/21	S	1 jar	CONF 50 - 3'	17							X		
03:54 PM	04/09/21	S	1 jar	CONF 51 - 3'	18							X		
06:32 PM	04/09/21	S	1 jar	SS47 - 0'	19							X		
09:51 PM	04/11/21	S	1 jar	CONF 55 - 0.5'	20							X		

Additional Instructions: Preserved on ice, please cc shar. harvester@wescominc.com

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	04/12/21	02:01 PM	<i>[Signature]</i>	4-12-21	1401
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	4-12-21	1930	<i>[Signature]</i>	4-13-21	08:51
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

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

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



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Envirotech Analytical Laboratory

Printed: 4/13/2021 10:50:49AM

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:	04/13/21 08:51	Work Order ID:	E104055
Phone:	(539) 573-4018	Date Logged In:	04/13/21 09:58	Logged In By:	Jessica Liesse
Email:	ashley.giovengo@wesominc.com	Due Date:	04/19/21 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Lab CarrierComments/Resolution

cc shar.harvester@wescominc.com

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?	No
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

WPX Energy - Carlsbad

Project Name: RDX Federal 10-15

Work Order: E104128

Job Number: 04108-0639

Received: 4/27/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/4/21

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: 5/4/21

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 10-15
Workorder: E104128
Date Received: 4/27/2021 2:35:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/27/2021 2:35:00PM, under the Project Name: RDX Federal 10-15.

The analytical test results summarized in this report with the Project Name: RDX Federal 10-15 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 Office:

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDx Federal 10-15	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/04/21 16:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF06-1.5'	E104128-01A	Soil	04/27/21	04/27/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX Federal 10-15
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
5/4/2021 4:28:22PM

CONF06-1.5'

E104128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2119001	
Benzene	ND	0.0250	1	05/03/21	05/03/21	
Ethylbenzene	ND	0.0250	1	05/03/21	05/03/21	
Toluene	ND	0.0250	1	05/03/21	05/03/21	
o-Xylene	ND	0.0250	1	05/03/21	05/03/21	
p,m-Xylene	ND	0.0500	1	05/03/21	05/03/21	
Total Xylenes	ND	0.0250	1	05/03/21	05/03/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		05/03/21	05/03/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2119001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/21	05/03/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	123 %	70-130		05/03/21	05/03/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2119009	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/21	05/03/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/03/21	05/03/21	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		05/03/21	05/03/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2119005	
Chloride	57.6	20.0	1	05/03/21	05/03/21	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/4/2021 4:28:22PM

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 (2119001-BLK1)

Prepared: 05/03/21 Analyzed: 05/03/21

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	7.77		8.00		97.2	70-130			

LCS (2119001-BS1)

Prepared: 05/03/21 Analyzed: 05/03/21

Benzene	4.85	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.87	0.0250	5.00		97.3	70-130			
o-Xylene	4.84	0.0250	5.00		96.9	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

Matrix Spike (2119001-MS1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Benzene	4.64	0.0250	5.00	ND	92.8	54-133			
Ethylbenzene	4.56	0.0250	5.00	ND	91.3	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131			
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2119001-MSD1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Benzene	4.50	0.0250	5.00	ND	90.1	54-133	2.96	20	
Ethylbenzene	4.41	0.0250	5.00	ND	88.3	61-133	3.33	20	
Toluene	4.59	0.0250	5.00	ND	91.8	61-130	2.54	20	
o-Xylene	4.50	0.0250	5.00	ND	89.9	63-131	3.50	20	
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131	3.30	20	
Total Xylenes	13.4	0.0250	15.0	ND	89.4	63-131	3.37	20	
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/4/2021 4:28:22PM

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 (2119001-BLK1)

Prepared: 05/03/21 Analyzed: 05/03/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.81		8.00		110	70-130			

LCS (2119001-BS2)

Prepared: 05/03/21 Analyzed: 05/03/21

Gasoline Range Organics (C6-C10)	60.8	20.0	50.0		122	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.98		8.00		125	70-130			

Matrix Spike (2119001-MS2)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Gasoline Range Organics (C6-C10)	56.7	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	10.1		8.00		126	70-130			

Matrix Spike Dup (2119001-MSD2)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Gasoline Range Organics (C6-C10)	56.7	20.0	50.0	ND	113	70-130	0.0307	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.86		8.00		123	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/4/2021 4:28:22PM

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 (2119009-BLK1)

Prepared: 05/03/21 Analyzed: 05/03/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

LCS (2119009-BS1)

Prepared: 05/03/21 Analyzed: 05/03/21

Diesel Range Organics (C10-C28)	453	25.0	500		90.5	38-132			
Surrogate: n-Nonane	39.9		50.0		79.7	50-200			

Matrix Spike (2119009-MS1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Diesel Range Organics (C10-C28)	478	25.0	500	ND	95.7	38-132			
Surrogate: n-Nonane	43.3		50.0		86.7	50-200			

Matrix Spike Dup (2119009-MSD1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Diesel Range Organics (C10-C28)	486	25.0	500	ND	97.3	38-132	1.67	20	
Surrogate: n-Nonane	41.9		50.0		83.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/4/2021 4:28:22PM

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 (2119005-BLK1)

Prepared: 05/03/21 Analyzed: 05/03/21

Chloride	ND	20.0							
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LCS (2119005-BS1)

Prepared: 05/03/21 Analyzed: 05/03/21

Chloride	244	20.0	250		97.5	90-110			
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Matrix Spike (2119005-MS1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Chloride	301	20.0	250	57.6	97.5	80-120			
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Matrix Spike Dup (2119005-MSD1)

Source: E104128-01 Prepared: 05/03/21 Analyzed: 05/03/21

Chloride	305	20.0	250	57.6	99.1	80-120	1.34	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

WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/04/21 16:28

- 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: WPX Energy, Permian, LLC
 Project: RDX Federal 10-15
 Project Manager: Ashley Giovenco
 Address: 1224 Standpipe Rd.
 City, State, Zip: Carlsbad NM 88220
 Phone: 505-382-1211
 Email: ashley.giovenco@wescominc.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: james.raley@wpenergy.com

Lab Use Only
 Lab WO# E 104128 Job Number 04108-0039
 Analysis and Method
 TAT
 1D 2D 3D Standard X
 EPA Program
 CWA SDWA
 RCRA

State
 NM CO UT AZ TX
X

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX						
105	4/27	S	1	CONF06-1.5'	1							X							

Additional Instructions: cc shar.harvester@wescominc.com
natalie.nunez@wescominc.com Preserved on ice.

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

Sampled by:

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

Relinquished by: (Signature) <u>Natalie Nunez</u>	Date <u>4-27-21</u>	Time <u>2:35pm</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4-27-21</u>	Time <u>14:35</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
 Received on ice: Y N
 T1 T2 T3
 AVG Temp °C 4

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 4/29/2021 4:49:01PM

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:	04/27/21 14:35	Work Order ID:	E104128
Phone:	(539) 573-4018	Date Logged In:	04/29/21 16:39	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wesominc.com	Due Date:	05/04/21 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Natalie Nunez**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?	No
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.

Carlsbad, NM
New Town & Williston, ND
Duluth, MN



(218) 724-1322
(701) 225-7847
wescominc.com

Liner Integrity Inspection – Photos attached

Date: 03/01/2021

Facility: RDX Federal 10-15

48-Hour Notification Given On: 02/25/2021

Responsible party has Visually inspected the liner Y / N

Liner Remains Intact Y / N

Liner had the ability to contain the leak in question Y / N

Notes:

8 site photos were taken for documentation

Third party pressure washed liner; liner integrity is in good condition

Zero holes in liner and there are no area's of concern

Company Representative (s)

Ashley Giovengo

Safely serving the best companies with unmatched quality and service

Carlsbad, NM
New Town & Williston, ND
Duluth, MN



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(701) 225-7847
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Liner Inspection Photos – RDX Federal 10-15



Photo 1. Site Signage



Photo 2. Entire containment

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Duluth, MN



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Photo 3. Entire Containment



Photo 4. North Side Containment

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Photo 5. South Side Containment



Photo 6. East Side Containment

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Photo 7. West Side of Containment



Photo 8. Entire Site

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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 33628

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 33628
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	WPX's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	7/14/2021