

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 overpressurize 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.



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		Closur	e Criteria	(units in m	g/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							



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.



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

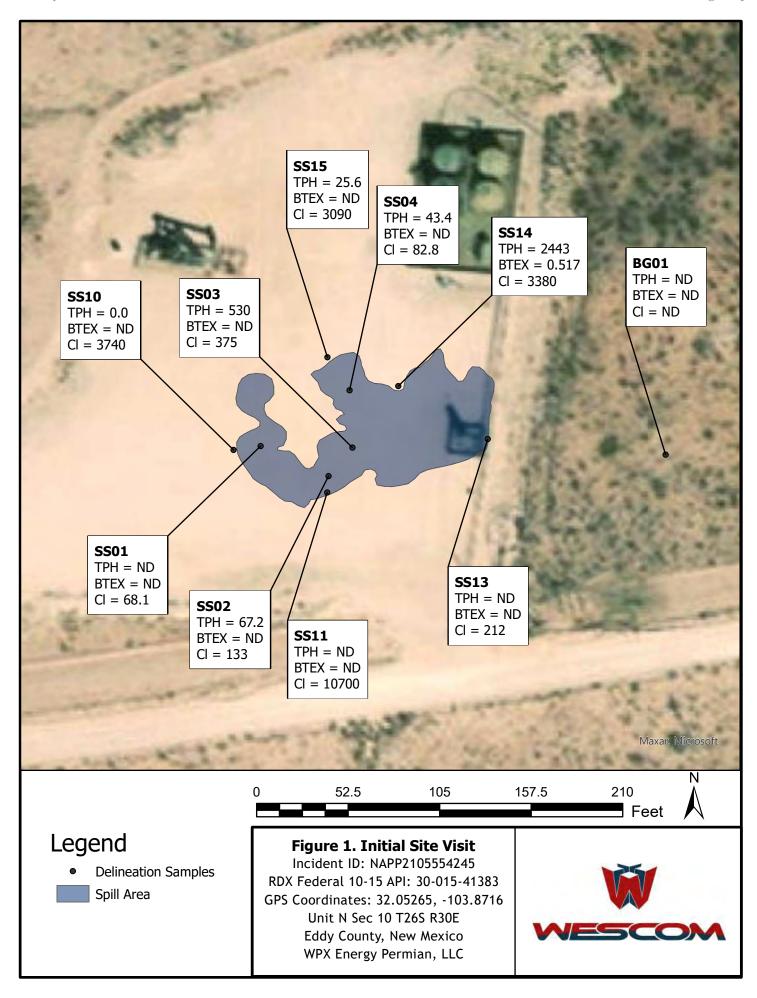
Attachment B. Site Photos

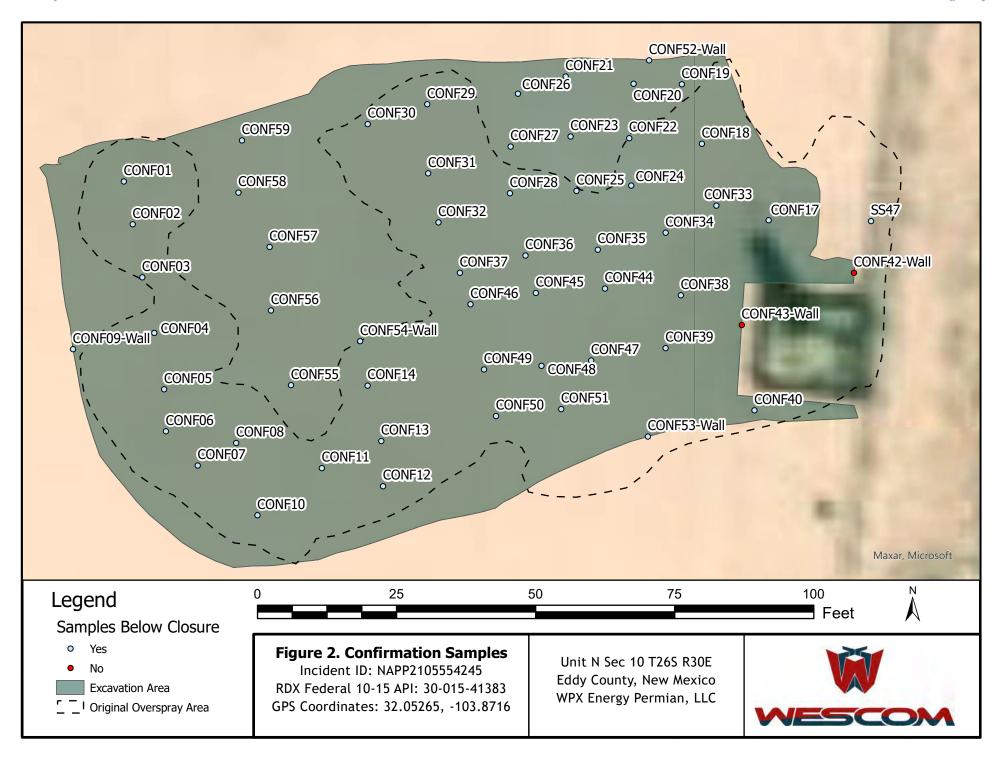
Attachment C. Closure Criteria Research

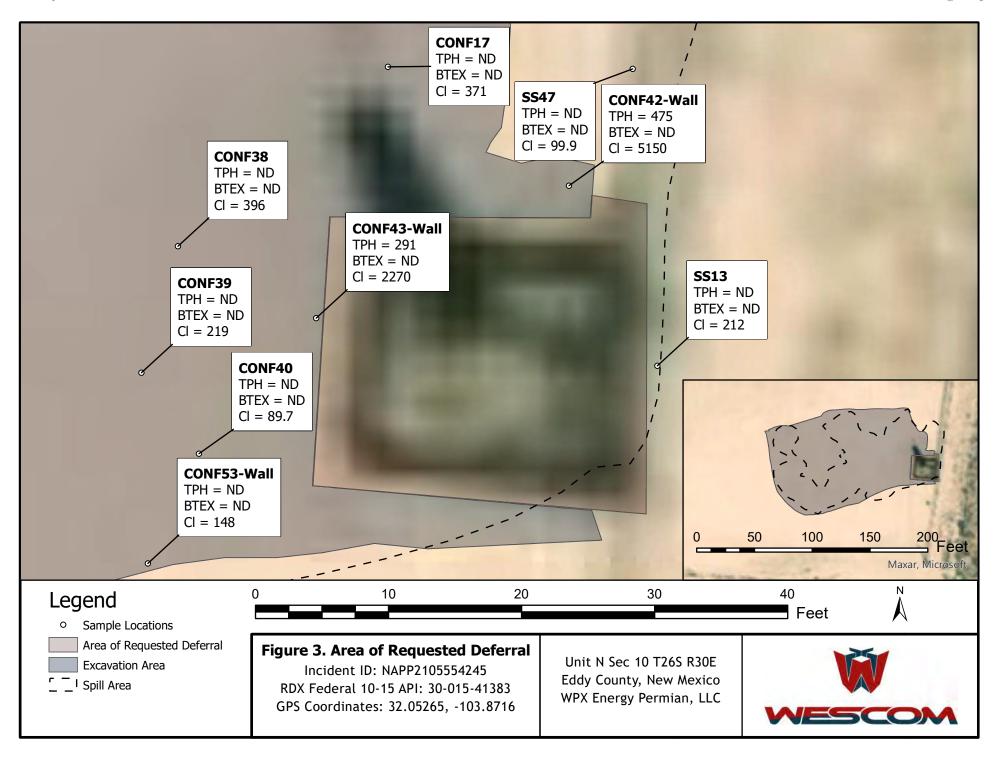
Attachment D. Karst Map

Attachment E. Envirotech Laboratory Analysis

Attachment F. Liner Inspection







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RDX 10-15 - 2.19.2021 Spill
WPX Energy Permian, LLC
March 2, 2021

Table 1. Laboratory Analysis Results: Spill Delineation

			etroreami	Hydrocarbo	J113	Inorganic
		Vola	atile	Extra	ctable	
Depth (ft.)	Date	mg/kg)	BTEX (total)	HdL (mg/kg)	(mg/kg)	(ga/kg) (ga/kg)
		10	50	100		600
ech, Inc.						
2	2/24/2021	ND	ND	ND	ND	68.1
2	2/24/2021	ND	ND	67.2	67.2	133
2	2/24/2021	ND	ND	530	369	375
2	2/24/2021	ND	ND	43.4	43.4	82.8
0	2/24/2021	ND	ND	ND	ND	3740
0	2/24/2021	ND	ND	ND	ND	10700
0	2/24/2021	ND	ND	ND	ND	212
0	2/24/2021	ND	0.517	2443	1720	3380
0	2/24/2021	ND	ND	25.6	25.6	3090
0	2/24/2021	ND	ND	ND	ND	ND
	tech, Inc. 2 2 2 2 0 0 0 0 0	tech, Inc. 2 2/24/2021 2 2/24/2021 2 2/24/2021 2 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021 0 2/24/2021	(ft.) Date (mg/kg) tech, Inc. 2 2/24/2021 ND 2 2/24/2021 ND 2 2/24/2021 ND 2 2/24/2021 ND 0 2/24/2021 ND	mg/kg (mg/kg) (mg/kg) mg/kg mg/k	mg/kg mg/k	tech, Inc. Inc.

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



RDX 10-15 - 2.19.2021 Spill WPX Energy Permian, LLC

April 27, 2021							
Table 2. Laboratory Analysis Results: Confirmation Samples							
San	nple Descrip	tion	Petrol	eum Hydrod	carbons	Inorganic	
			Vola	atile	Extractable		
				BTEX			
Sample ID	Depth (ft.)	Date	Benzene	(total)	TPH	Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Closure Cri	teria		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 ND	60.6	
CONF26	1	4/8/2021	ND	ND	ND ND	130	
CONF27 CONF28	1	4/8/2021	ND	ND	ND ND	166	
CONF28	2	4/8/2021 4/8/2021	ND ND	ND ND	ND ND	153 49.8	
CONF30	2	4/8/2021	ND ND	ND ND	56.3	194	
CONF30	1	4/8/2021	ND ND	ND ND	ND	117	
CONF32	1	4/9/2021	ND ND	ND	38.4	298	
CONF32	2	4/8/2021	ND ND	ND	ND	210	
CONF34	2	4/8/2021	ND ND	ND ND	ND ND	279	
CONF35	1	4/8/2021	ND ND	ND ND	ND ND	275	
CONF36	1	4/8/2021	ND 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. Laborator	y Analysis Results	s: Confirmation Samples
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Sample Description Petroleum Hydrocarbons Inorganic Sample ID Depth (ft.) Date Volatile Extractable Benzene (mg/kg) (total) (mg/kg) TPH (mg/kg) Chloride (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 396 CONF40 3.6 4/9/2021 ND ND ND 89.7 CONF41³ Wall 4/9/2021 ND ND AV 5550 CONF42³ Wall 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 80.4 CONF46 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 </th <th></th> <th>Table 2. Lab</th> <th>oratory Ana</th> <th>lysis Results</th> <th>s: Confirmat</th> <th>ion Samples</th> <th></th>		Table 2. Lab	oratory Ana	lysis Results	s: Confirmat	ion Samples	
Depth (ft.) Date Benzene (total) (mg/kg) TPH (mg/kg) Chloride (mg/kg) Chloride (mg/kg) Chloride (mg/kg) Chloride (mg/kg) Conf.	Sar	Sample Description			Petroleum Hydrocarbons		
Date				Vola	atile	Extractable	
Benzene (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)	Cample ID	Donth (ft)	Data		BTEX		
Closure Criteria 10 50 100 600 CONF38 2 4/8/2021 ND ND ND 396 CONF39 2.5 4/9/2021 ND ND ND ND 219 CONF40 3.6 4/9/2021 ND ND ND ND 89.7 CONF413 Wall 4/9/2021 ND ND ND 475 5150 CONF423 Wall 4/9/2021 ND ND ND ND 145 CONF43 3 4/9/2021 ND ND ND ND 145 CONF44 2 4/9/2021 ND ND ND ND 74.4 CONF45 3 4/9/2021 ND ND ND ND 80.4 CONF46 3.5 4/9/2021 ND ND ND 80.4 CONF47 2.6 4/9/2021 ND ND ND ND 105 CONF49	Sample ID	Depth (it.)	Date	Benzene	(total)	TPH	Chloride
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 ND 89.7 CONF41 ³ Wall 4/9/2021 ND ND ND 291 2270 CONF42 ³ Wall 4/9/2021 ND ND ND ND 145 CONF43 3 4/9/2021 ND ND ND ND 145 CONF44 2 4/9/2021 ND ND ND ND 74.4 CONF45 3 4/9/2021 ND ND ND ND 220 CONF46 3.5 4/9/2021 ND ND ND ND 83.6 CONF47 2.6 4/9/2021 ND ND ND ND 80.4 CONF48 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 123 CONF50 3 4/9/2021 ND ND ND ND 123 CONF51 Wall 4/9/2021 ND ND ND ND 376 CONF52 Wall 4/9/2021 ND ND ND ND 148 CONF53 Wall 4/9/2021 ND ND ND ND 148 CONF54 0.5 4/12/2021 ND ND ND ND 148 CONF55 0.5 4/12/2021 ND ND ND ND 149 CONF56 0.5 4/12/2021 ND ND ND ND 149 CONF57 0.5 4/12/2021 ND ND ND ND 149 CONF58 0.5 4/12/2021 ND ND ND ND 149 CONF58 0.5 4/12/2021 ND ND ND ND 194				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
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 ND 291 2270 CONF42 ³ Wall 4/9/2021 ND ND ND 145 CONF43 3 4/9/2021 ND ND ND ND 145 CONF44 2 4/9/2021 ND ND ND ND 74.4 CONF45 3 4/9/2021 ND ND ND ND ND 220 CONF46 3.5 4/9/2021 ND ND ND ND 83.6 CONF47 2.6 4/9/2021 ND ND ND ND 80.4 CONF48 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 123 CONF50 3 4/9/2021 ND ND ND ND 123 CONF50 3 4/9/2021 ND ND ND ND 376 CONF51 Wall 4/9/2021 ND ND ND ND 376 CONF52 Wall 4/9/2021 ND ND ND ND 148 CONF53 Wall 4/9/2021 ND ND ND ND 138 CONF54 0.5 4/12/2021 ND ND ND ND 148 CONF55 0.5 4/12/2021 ND ND ND ND 149 CONF56 0.5 4/12/2021 ND ND ND ND 149 CONF57 0.5 4/12/2021 ND ND ND ND 149 CONF58 0.5 4/12/2021 ND ND ND ND 194	Closure Cri	teria		10	50	100	600
CONF40 3.6 4/9/2021 ND ND ND 89.7 CONF41 ³ Wall 4/9/2021 ND ND 291 2270 CONF42 ³ Wall 4/9/2021 ND ND ND 145 CONF43 3 4/9/2021 ND ND ND ND 145 CONF44 2 4/9/2021 ND ND ND ND 74.4 CONF45 3 4/9/2021 ND ND ND ND ND 220 CONF46 3.5 4/9/2021 ND ND ND ND 83.6 CONF47 2.6 4/9/2021 ND ND ND ND 80.4 CONF48 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 105 CONF50 3 4/9/2021 ND ND ND ND 123 CONF51 Wall 4/9/2021 ND ND ND ND 376 CONF52 Wall 4/9/2021 ND ND ND ND 148 CONF53 Wall 4/9/2021 ND ND ND ND 138 CONF54 0.5 4/12/2021 ND ND ND ND 149 CONF55 0.5 4/12/2021 ND ND ND ND 149 CONF56 0.5 4/12/2021 ND ND ND ND 141 CONF57 0.5 4/12/2021 ND ND ND ND 149 CONF58 0.5 4/12/2021 ND ND ND ND 194 CONF59 0 4/9/2021 ND ND ND ND ND 194	CONF38	2	4/8/2021	ND	ND	ND	396
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CONF42³ Wall 4/9/2021 ND ND 291 2270 CONF43 3 4/9/2021 ND ND ND ND 145 CONF44 2 4/9/2021 ND ND ND ND 74.4 CONF45 3 4/9/2021 ND ND ND ND 220 CONF46 3.5 4/9/2021 ND ND ND ND 83.6 CONF47 2.6 4/9/2021 ND ND ND ND 80.4 CONF48 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 123 CONF50 3 4/9/2021 ND ND ND ND 376 CONF51 Wall 4/9/2021 ND ND ND ND 148 CONF52 Wall 4/9/2021 ND ND ND ND<	CONF40	3.6	4/9/2021	ND	ND	ND	89.7
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CONF46 3.5 4/9/2021 ND ND ND 83.6 CONF47 2.6 4/9/2021 ND ND ND ND 80.4 CONF48 3.5 4/9/2021 ND ND ND ND 105 CONF49 3 4/9/2021 ND ND ND ND 123 CONF50 3 4/9/2021 ND ND ND ND 44.6 CONF51 Wall 4/9/2021 ND ND ND ND 376 CONF52 Wall 4/9/2021 ND ND ND ND 148 CONF53 Wall 4/9/2021 ND ND ND ND 149 CONF54 0.5 4/12/2021 ND ND ND ND 141 CONF55 0.5 4/12/2021 ND ND ND ND 84.9 CONF57 0.5 4/12/2021 ND ND ND	CONF44	2	4/9/2021	ND	ND	ND	74.4
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CONF50 3 4/9/2021 ND ND ND 44.6 CONF51 Wall 4/9/2021 ND ND ND ND 376 CONF52 Wall 4/9/2021 ND ND ND ND 148 CONF53 Wall 4/9/2021 ND ND ND ND 138 CONF54 0.5 4/12/2021 ND ND ND ND 149 CONF55 0.5 4/12/2021 ND ND ND ND 84.9 CONF56 0.5 4/12/2021 ND ND ND ND 194 CONF57 0.5 4/12/2021 ND ND ND ND 257 CONF59 0 4/9/2021 ND ND ND ND 99.9	CONF48	3.5	4/9/2021	ND	ND	ND	105
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 ND 138 CONF54 0.5 4/12/2021 ND ND ND 149 CONF55 0.5 4/12/2021 ND ND ND ND 141 CONF56 0.5 4/12/2021 ND ND ND ND 194 CONF57 0.5 4/12/2021 ND ND ND ND 257 CONF58 0.5 4/9/2021 ND ND ND ND 99.9	CONF49	3	4/9/2021	ND	ND	ND	123
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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 ND 99.9	CONF51	Wall	4/9/2021	ND	ND	ND	376
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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	CONF54	0.5	4/12/2021	ND	ND	ND	149
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	CONF55	0.5	4/12/2021	ND	ND	ND	141
CONF58 0.5 4/12/2021 ND ND ND 257 CONF59 0 4/9/2021 ND ND ND 99.9	CONF56	0.5	4/12/2021	ND	ND	ND	84.9
CONF59 0 4/9/2021 ND ND ND 99.9	CONF57	0.5	4/12/2021	ND	ND	ND	194
	CONF58	0.5	4/12/2021	ND	ND	ND	257
CONF60 0 2/24/2021 ND ND ND ND	CONF59	0	4/9/2021	ND	ND	ND	99.9
	CONF60	0	2/24/2021	ND	ND	ND	ND

Abbreviations:

BTEX - Benzene, Toluene, Ethylene, Xylene

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

mg/kg - milligrams per kilogram

ND - Non-detect

TPH - Total Petroleum Hydrocarbons

ft. - feet Notes:

Red Bold - Results are above Closure Criteria.

Black Bold - Resampled Confirmation area; results are below closure criteria.

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.

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	Responsible Party: WPX Energy Permian, LLC		OGRID:	246289		
Contact Name: Jim Raley			Contact Telephone: 575-689-7597			
Contact emai	il: james.rale	ey@wpxenergy.co	om		Incident #	# (assigned by OCD) nAPP2105554245
Contact mail 88220	ing address:	5315 Buena Vista	a Dr., Carlsbad N	ΙM		
			Location	n of R	alassa S	Source
			Location	I OI IN	cicase o	ource
Latitude 32.0	526505		(NAD 83 in a	lecimal de	Longitude	-103.8716049
			(NAD 65 in a	ecimai ae		•
Site Name: R					Site Type:	: Oil Production Facility
Date Release	Discovered	: Feb 19 th , 2021			API# (if ap	pplicable) 30-015-41383
Unit Letter	Section	Township	Range		Cou	note:
N N	10	26S	30E	Eddy		mty
11	10	200	302		,	
Surface Owner	r: State	Federal T	ribal Private	(Name:)
			N T 4	1 7 7		D. I.
			Nature an	id Vol	lume of	Release
				ch calculat	ions or specifi	ic justification for the volumes provided below)
Crude Oil		Volume Release	ed (bbls) 20			Volume Recovered (bbls) 18
Produced	Water	Volume Release	ed (bbls) 115			Volume Recovered (bbls) 110
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride	e in the	⊠ Yes □ No
Condensa	ite	Volume Release				Volume Recovered (bbls)
Natural G	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)				
U Other (de	,					
	·					
Cause of Rele	ease: Gas su	apply and backpres and pad surface.	ssure relief valve	froze uj	and caused	d the treater to overpressure. Fluids were released to lined
Cause of Relesecondary co	ease: Gas su ntainment a	nd pad surface.		•		
Cause of Relesecondary co	ease: Gas su ntainment a	nd pad surface.		•		d the treater to overpressure. Fluids were released to lined + recovered fluids (bbl)

73	7.0	C 400
Page	120	T 183
1 466	14 U	1 100

Incident ID	nAPP2105554245
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? It is a contract of the OCD? By whom? It is a contract of the OCD? By whom? To whom? When and by what means (phone, email, etc)? It is a contract of the OCD? By whom? To whom? When and by what means (phone, email, etc)? It is a contract of the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
D 40.47.00 0 D (4) 37.4	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:James	s Raley Title: Environmental Specialist
dia.	Ry 04/06/2020
Signature:	Date:04/06/2020
	/pxenergy.com Telephone:575-689-7597
OCD Owler	
OCD Only	
Received by:	Date:

	Page 13 of 18	83
Incident ID	nAPP2105554245	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>110</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 wel 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 	ls.

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

Topographic/Aerial maps

☐ Laboratory data including chain of custody

Received by OCD: 6/24/2021 2:57:11 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 14 of 18.
Incident ID	nAPP2105554245
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thruddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: James Raley	Title: Environmental Specialist
Signature: fin Rolly	Date: 6-24-2021
email:jim.raley@dvn.com	Telephone:575-689-7597
OCD Only	
Received by:	Date:

State of New Mexico

Incident ID nAPP2105554245

District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. Proposed schedule for remediation (note if remediation plan tin	ts 12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation
Deterral Requests Only. Each of the following tiems must be con-	njirmea as part of any request for deferral of remediation.
☐ Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: James Raley	Title: Environmental Specialist
Signature:	Date: 6-24-2021
email:jim.raley@dvn.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: Chad Hend	Date: 07/14/2021





























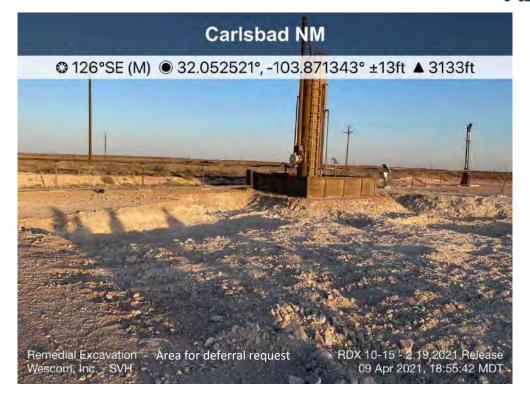




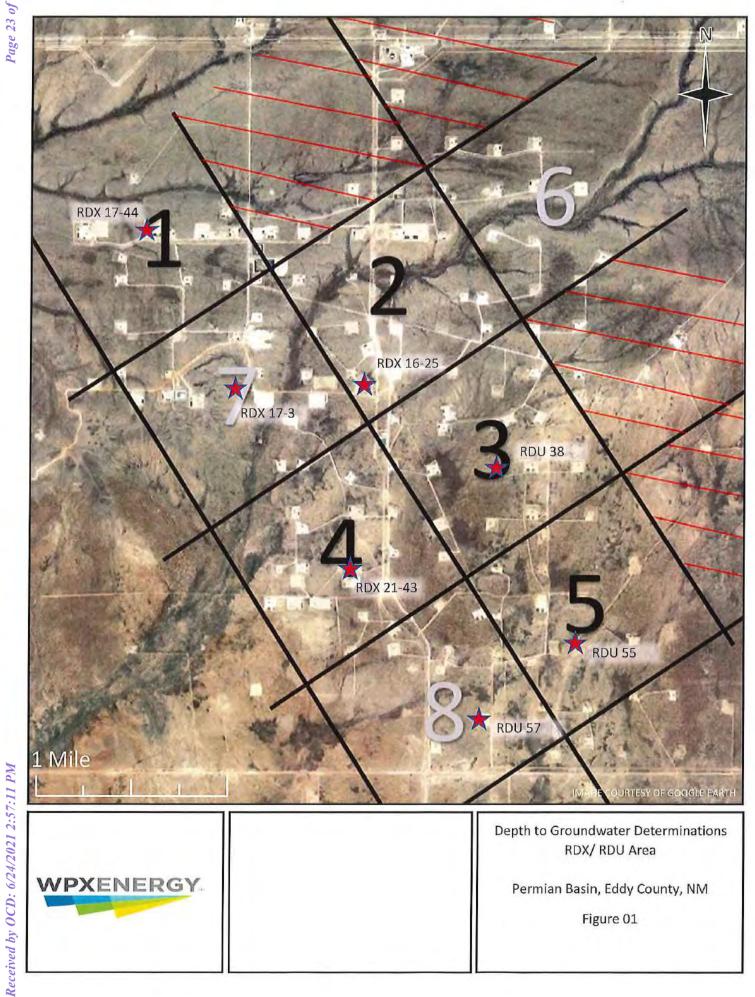














Depth to Groundwater Determinations RDX/ RDU Area

Permian Basin, Eddy County, NM

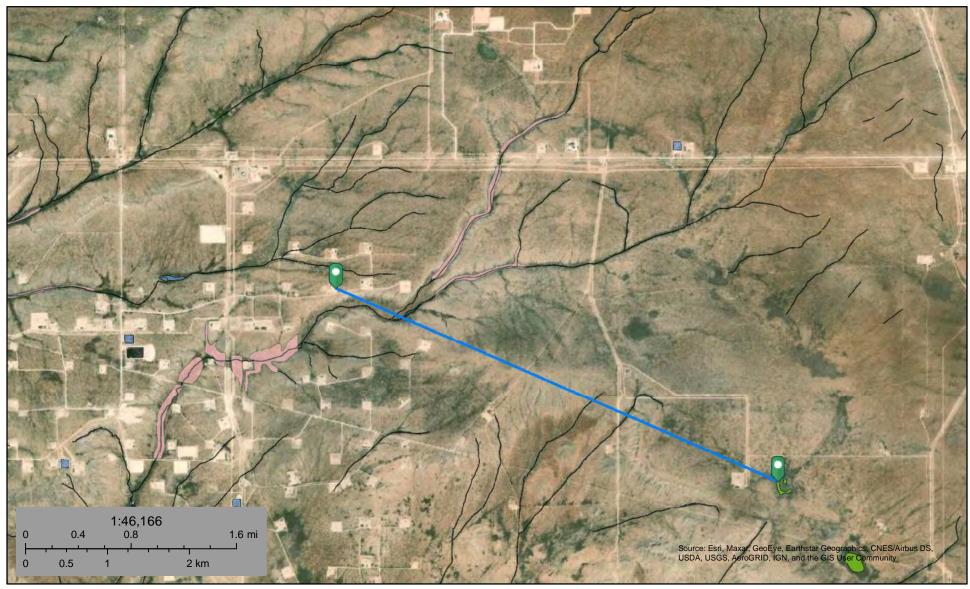
Figure 01

>	10/20 sand 3 bags							Number:	1W-1	WELL COMPLETIO Location: RDX 16 Client:	5-25		
							Logged By:	12/	10/2020	WPX En	ergy		
331		rv	Sampring	Children and a	ne		Logged by:	J. L	inn, PG		Talon LPE		
Gravel Pack Type: Gravel Pack Depth Interval:						Seal Type: Seal Depth Interval:			Latitude:	The second secon			
					None None Boring Total Depth (ft. BGS):			32,0399	004				
Casing Typ PVC	oc:	Diameter 2-inch		0-105 fe			Boring Tota		10	Longitude: -103.883	3368		
creen Typ	ne:	Slot:		Diameter:		Interval:	Well Total I	Depth (ft. BG		Depth to Water (ft, BTOC):	DTW Date:		
PVC		0.010-	inch	2-inch		110 ft			10	>110	12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Lithology/Remarks		Well Completion		
0 5 10 15 20	NM	Ĺ	D	N	N	NM	sw	NS	the state of the state of the state of	pink tan well graded I with silt			
25 30 35	NM	L	D	N	N	NM	SP	SP NS Pale	SP NS Pale	SP NS	Pale pinky orange poorly graded fine sand		
40 45	NM	L	D	N	N	NM	SP NS Pale pinky orange	Orange to pale red well graded sand with gravel Pale pinky orange poorly graded fine sand					
50 55	NM	L	D	N	N	NM							
60 65 70 75 80 85 90 95	NM	L	D	N	N	NM	SP	NS	sand with minor	ge poorly graded fine r medium and coarse TD: 110' bgs			
105		4		1									





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

Riverine

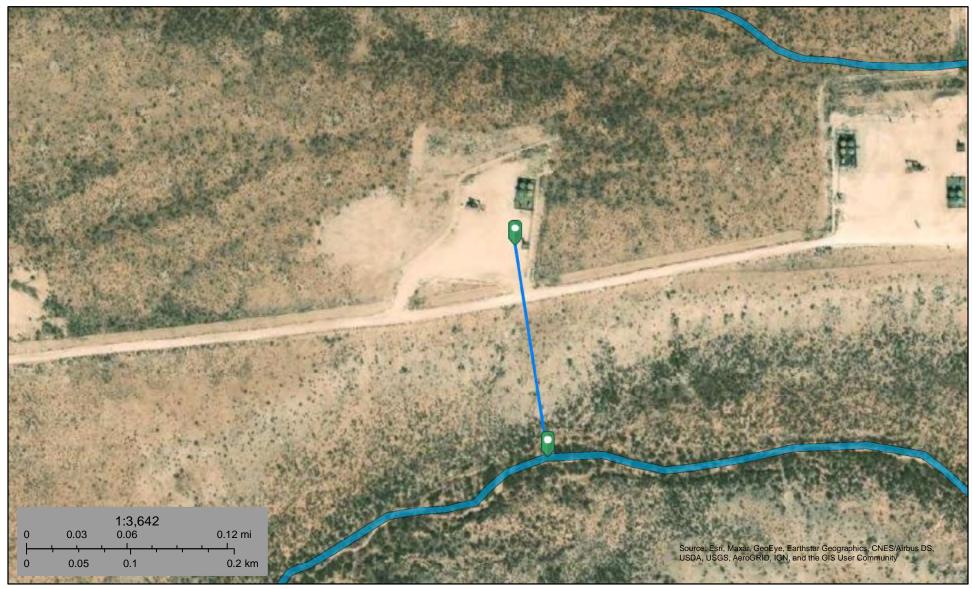
Other

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.

This map is for general reference only. The US Fish and Wildlife



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

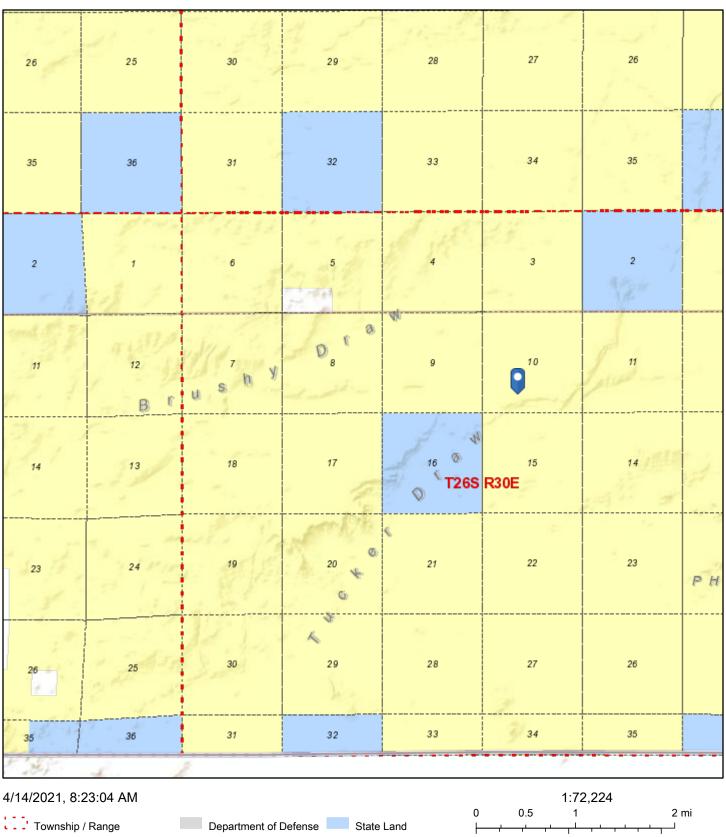
Lake

Riverine

Other

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





National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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 OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D **GENERAL** - - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER Profile Baseline **FEATURES** Hydrographic Feature Digital Data Available

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

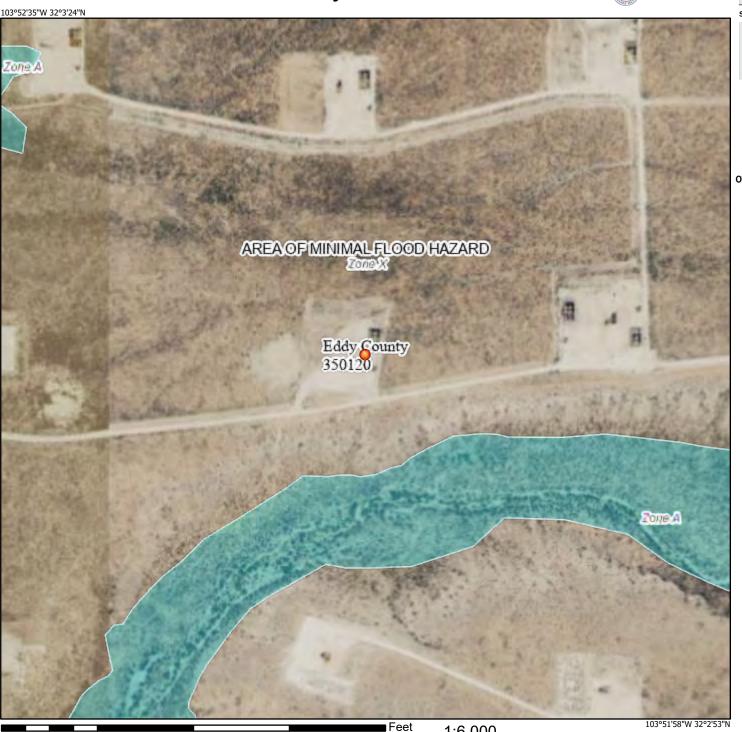
No Digital Data Available

Unmapped

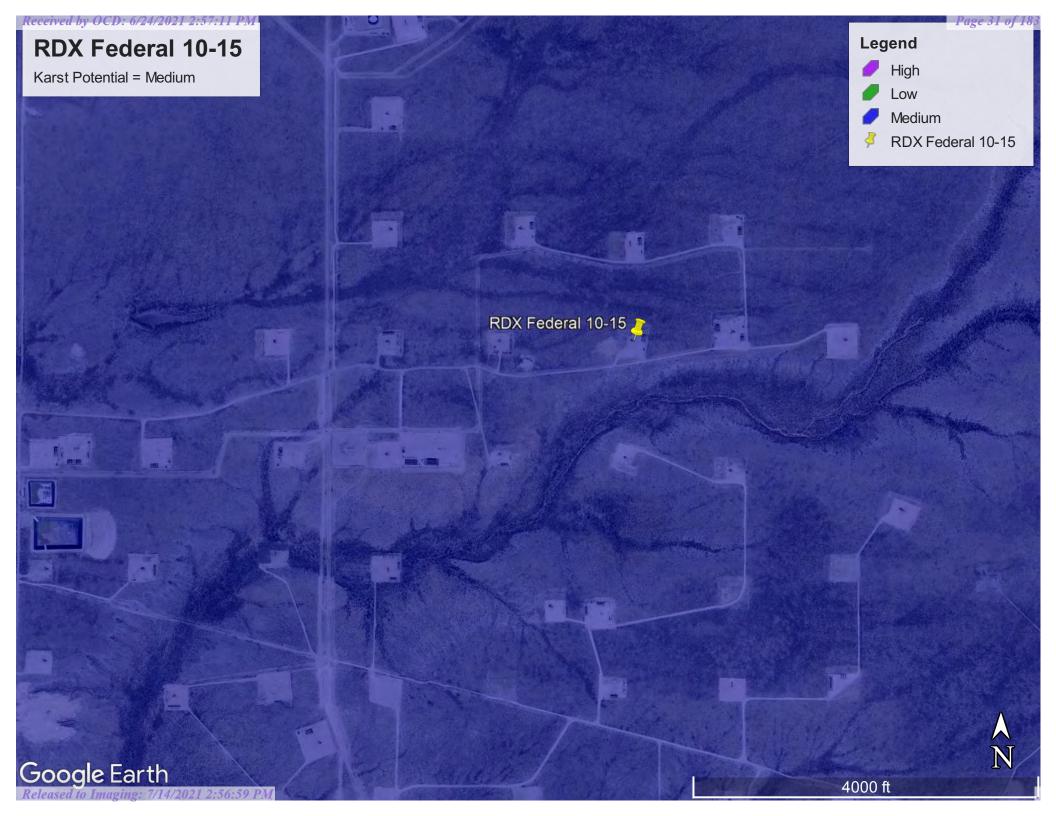
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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.



2.000



Report to:
Ashley Giovengo





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01-2'	5
SS02-2'	6
SS03-2'	7
SS04-2'	8
BG01-0'	9
SS10-0'	10
SS11-0'	11
SS13-0'	12
SS14-0'	13
SS15-0'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

Sample Summary

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

SS01-2'

		E103008-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
o,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	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		93.9 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110035

20.0

68.1

03/04/21

03/04/21



Chloride

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	3/8/2021 3:33:21PM

SS02-2'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: n-Nonane		96.9 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2110035
Chloride	133	20.0	1	03/04/21	03/04/21	· · · · · · · · · · · · · · · · · · ·



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	3/8/2021 3:33:21PM

SS03-2'

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		89.2 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110035
	375	20.0		03/04/21	03/04/21	



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	3/8/2021 3:33:21PM

SS04-2'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: 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	
Surrogate: n-Nonane		92.0 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2110035
Chloride	82.8	20.0	1	03/04/21	03/04/21	·

Sample Data

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	3/8/2021 3:33:21PM

BG01-0'

		E103008-05						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	03/04/21	03/05/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110033		
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	03/04/21	03/05/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: n-Nonane		96.1 %	50-200	03/04/21	03/04/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2110035		
Chloride	ND	20.0	1	03/04/21	03/04/21			



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	3/8/2021 3:33:21PM

SS10-0'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		87.0 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2110035
Chloride	3740	40.0	2	03/04/21	03/04/21	



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	3/8/2021 3:33:21PM

SS11-0'

		Reporting					
Analyte	Result	Limit	Diluti	ion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY			Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130		03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: 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	
Surrogate: n-Nonane		84.7 %	50-200		03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY			Batch: 2110035
Chloride	10700	100	5		03/04/21	03/04/21	·



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	3/8/2021 3:33:21PM

SS13-0'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: 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	
Surrogate: n-Nonane		94.2 %	50-200	03/04/21	03/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2110035
Chloride	212	20.0	1	03/04/21	03/05/21	· · · · · · · · · · · · · · · · · · ·



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	3/8/2021 3:33:21PM

SS14-0'

oorting .imit Dilution g/kg Analy	Prepared lyst: IY	Analyzed	Notes
	•	Analyzed	Notes
g/kg Analy	vst: IY		
	J		Batch: 2110033
0250 1	03/04/21	03/05/21	
0250 1	03/04/21	03/05/21	
0250 1	03/04/21	03/05/21	
0500 1	03/04/21	03/05/21	
0250 1	03/04/21	03/05/21	
0250 1	03/04/21	03/05/21	
70-130	03/04/21	03/05/21	
g/kg Analy	yst: IY		Batch: 2110033
20.0	03/04/21	03/05/21	
70-130	03/04/21	03/05/21	
g/kg Analy	yst: JL		Batch: 2110032
25.0 1	03/04/21	03/05/21	·
50.0 1	03/04/21	03/05/21	
50-200	03/04/21	03/05/21	
g/kg Analy	lyst: IY		Batch: 2110035
	20.0 1 70-130 10g/kg Anal 25.0 1 50.0 1	0250 1 03/04/21 0500 1 03/04/21 0250 1 03/04/21 0250 1 03/04/21 70-130 03/04/21 20.0 1 03/04/21 70-130 03/04/21 70-130 03/04/21 25.0 1 03/04/21 25.0 1 03/04/21 25.0 1 03/04/21	0250 1 03/04/21 03/05/21 0500 1 03/04/21 03/05/21 0250 1 03/04/21 03/05/21 0250 1 03/04/21 03/05/21 0250 1 03/04/21 03/05/21 0260 1 03/04/21 03/05/21 0270-130 03/04/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21 03/05/21



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	3/8/2021 3:33:21PM

SS15-0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2110033
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/21	03/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	03/04/21	03/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		100 %	50-200	03/04/21	03/05/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2110035
Chloride	3090	40.0	2	03/04/21	03/05/21	·



QC Summary Data

RDX 10-15 2.19.2021 Spill Devon Energy - Carlsbad Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Prepared: 03/04/21 Analyzed: 03/05/21 Blank (2110033-BLK1) ND 0.0250 ND 0.0250 Toluene Ethylbenzene ND 0.0250 ND p,m-Xylene 0.0500 ND o-Xylene 0.0250 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.76 8.00 97.0 70-130 Prepared: 03/04/21 Analyzed: 03/05/21 LCS (2110033-BS1) 5.23 105 70-130 5.00 Benzene 0.0250 5.37 0.0250 5.00 107 70-130 Toluene Ethylbenzene 5.15 0.0250 5.00 103 70-130 10.5 p,m-Xylene 0.0500 10.0 105 70-130 5.33 5.00 107 70-130 0.0250 o-Xvlene 106 70-130 15.8 15.0 Total Xylenes 0.0250 8.00 98.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.87 Prepared: 03/04/21 Analyzed: 03/05/21 Matrix Spike (2110033-MS1) Source: E103008-01 5.03 0.0250 5.00 ND 101 54-133 Benzene 104 61-130 Toluene 5.19 0.0250 5.00 ND Ethylbenzene 5.01 0.0250 5.00 ND 100 61-133 10.2 ND 102 63-131 10.0 0.0500 p,m-Xylene o-Xylene 5.17 0.0250 5.00 ND 103 63-131 15.4 0.0250 15.0 ND 63-131 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 8.18 8.00 70-130 **Source: E103008-01** Prepared: 03/04/21 Analyzed: 03/05/21 Matrix Spike Dup (2110033-MSD1)

5.25

5.36

5.14

10.5

5.32

15.8

7.83

0.0250

0.0250

0.0250

0.0500

0.0250

0.0250

5.00

5.00

5.00

10.0

5.00

15.0

8.00

ND

ND

ND

ND

ND

ND

105

107

103

105

106

105

97.8

54-133

61-130

61-133

63-131

63-131

63-131

70-130

4.31

3.10

2.65

2.67

2.95

2.77

20

20

20

20

20

20



Benzene

Toluene Ethylbenzene

p.m-Xvlene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

o-Xylene

Surrogate: 1-Chloro-4-fluorobenzene-FID

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

Artesia NM, 88210		Project Manage		hley Gioveng	go				3/8/2021 3:33:21PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			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
Blank (2110033-BLK1)						Pre	pared: 03/0)4/21 Anal	yzed: 03/05/21
Gasoline Range Organics (C6-C10)	ND	20.0							<u> </u>
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			
LCS (2110033-BS2)						Pre	pared: 03/0	04/21 Anal	yzed: 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)				Sou	rce: E103	008-01 Pre	pared: 03/0	04/21 Anal	yzed: 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)				Sou	rce: E103	008-01 Pre	pared: 03/0	04/21 Anal	yzed: 03/05/21
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	0.126	20	

8.00

96.4

70-130

7.71

QC Summary Data

Devon Energy - CarlsbadProject Name:RDX 10-15 2.19.2021 SpillReported:6488 7 Rivers HwyProject Number:04108-0639Artesia NM, 88210Project Manager:Ashley Giovengo3/8/2021 3:33:21PM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			3/	8/2021 3:33:21PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2110032-BLK1)						Pre	pared: 03/0	04/21 Analyz	red: 03/04/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.5	50-200			
LCS (2110032-BS1)						Pre	pared: 03/0	04/21 Analyz	ed: 03/04/21
Diesel Range Organics (C10-C28)	474	25.0	500		94.8	38-132			
urrogate: n-Nonane	44.6		50.0		89.3	50-200			
Matrix Spike (2110032-MS1)				Sou	rce: E103	008-05 Pre	pared: 03/0	04/21 Analyz	ed: 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)				Sou	rce: E103	008-05 Pre	pared: 03/0	04/21 Analyz	red: 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 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager		RDX 10-15 2.19.2021 Spill 04108-0639 Ashley Giovengo					Reported: 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

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2110035-BLK1)						Pre	pared: 03/0	4/21 Analyz	zed: 03/04/21
Chloride	ND	20.0							
LCS (2110035-BS1)						Pre	pared: 03/0	4/21 Analyz	zed: 03/04/21
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2110035-MS1)				Sour	rce: E1030	08-01 Pre	pared: 03/0	4/21 Analyz	zed: 03/04/21
Chloride	315	20.0	250	68.1	98.9	80-120			
Matrix Spike Dup (2110035-MSD1) Source: E103008-01 Prepared: 03/04/21 Analyzed: 03/04/21									zed: 03/04/21
Chloride	317	20.0	250	68.1	99.5	80-120	0.408	20	

QC Summary Report Comment:

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	RDX 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.



Page 20 of 21			24/20
age 20 of 21			41 4.
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oject:	ROX	10-15		2021 52111	Attention: 1:00	Raley			WO#		0	Job N	umb	3000	1D	2D	3D	Standard	CWA	SDWA
roject N	Manager:	tshle	y Gio	vengo	Address: 5315	Buenavis	ta Dr.	E	03	C	_	_						X		DCD A
ddress:	12245	tand	5/36	m 88220	Phone: (575) los	rishad NM	88 620	-				Analys	is and	Metho				-	-	RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO	GRO/DRO by	3TEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			Remarks	
b):45	2124	5	ljar	5501-2	λ'		4			-			_		X					
11:00	2/24	5	Mar	5502 - 2	•		2			2			-61		X					
11:10	2/24	5	ljar	5503-2	1		3						1		X					
11:15	2/24	5	Vjar	5504.2	L. IV		4								X					
3:29	2/24	5	ljar	8601-0	1		5			-			1		X					
08:12	2124	5	ljar	\$10-0	I.		6			4.5					X					
08:18	2124	5	ljar	5511-0			7						4	7.4	X					
08:30	2124	5	-	55 13-0	1		8								X					
08:35	2/24	5	ljar	55141-0	1		9								X					
	2/24	5	liar	5515-0	(10								X					
Additio	nal Instruc		email	shar harve	sterewescomin	L. com along 1	of Ashle	4 0	les	2										
		the validit	y and auther	nticity of this sample. I a	m aware that tampering wit	h or intentionally mislabe	ling the samp	le loca	ation,									eived on ice the da °C on subsequent o		led or received
_	ned by: (Sign		Date	e Time	Received by: (8	gnature)	Date 3./. 2		Time 9	14	1	Rece	ived (on ice:		ab U:	se Onl	У		
	hed by: (Sign	ature)	Date 3		Received by: (S	all A	Date 3/2/3		Time	40	3	T1			<u>T2</u>					
Relinquis	ned by: (Sign	ature)	Dat		Received by: (S	ignature)	Date		Time			AVG	Temp	°c_Z	1					
Sample M	atrix: S - Soil, S	d - Solid, Sg	- Sludge, A -	Aqueous, O - Other			Containe	r Typ	e: g - g	glass,	p - p	oly/pla	istic, a	ig - amb	er gla	ss, v -	VOA			
Note: Sar	nples are dis	carded 30	days after r	esults are reported u	nless other arrangements	s are made. Hazardous	samples wi	Ill be r	eturne	ed to c	dient o	or dispo	renor	at the c	ient ex	xpense	e. The	report for the	analysis of th	e above



t expense. The report for the analysis of the above

Page 52 of 183Printed: 3/3/2021 1:29:37PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/02/21	11:40	Work Order ID:	E103008
Phone:	-	Date Logged In:	03/02/21		Logged In By:	Alexa Michaels
Email:	· ·	Date Logged III. Due Date:		17:00 (4 day TAT)	Logged III By.	Alexa Michaels
Lillali.	asincy.grovengo@wescomme.com	Duc Daic.	03/06/21	17.00 (4 day 1711)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location matcl	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>F</u>	ed Ex	
4. Was tl	he COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes	_		
5. Were	all samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion	•		·	Commen	ats/Resolution
	Turn Around Time (TAT)				and was reasized with	white out markings
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes		coc was received with	_
Sample					down the btex and chlo	oride columns as
	sample cooler received?		Yes		corrections on requeste	ed analysis were
8. If yes,	, was cooler received in good condition?		Yes		made prior to being red	ceived from the lab.
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes		1	
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are to minutes of sampling	received w/i 15	Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°	<u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La	ı <u>bel</u>					
20. Were	e field sample labels filled out with the minimum inform	mation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	•		
	Collectors name?		No			
	Preservation 111111111111111111111111111111111111	10	3.7			
	s the COC or field labels indicate the samples were pres	servea?	No			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved me	4a1a9	NA			
	1	tais?	No			
	nase Sample Matrix	0				
	s the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analyz	ed?	NA			
Subcont	tract Laboratory					
28. Are	samples required to get sent to a subcontract laboratory	<i>'</i> ?	No			
	a subcontract laboratory specified by the client and if s		NA	Subcontract Lab	: NA	
Client l	<u>Instruction</u>					
1	shar.harvester@wescominc.com					
ashley.	giovengo@wescominc.com					
~-		*.*				– 🧀 envirotech II
Signa	ature of client authorizing changes to the COC or sample dispo	osition.			Date	envirotech II

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

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

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: 4/16/21

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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

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Raina Schwanz

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Cell: 505-320-4759

lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CONF01-3'	6
CONF02-0.5'	7
CONF03-1'	8
CONF04-1'	9
CONF05-1'	10
CONF06-1'	11
CONF07-0.5'	12
CONF08-1'	13
CONF10-1'	14
CONF11-1'	15
CONF13-2'	16
CONF14-2'	17
CONF17-2'	18
CONF18-2'	19
CONF19-2'	20
CONF20-1'	21
CONF21-1'	22
CONF22-1'	23
CONF23-1'	24
CONF24-1'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

_				
ſ	WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
١	5315 Buena Vista Dr	Project Number:	04108-0639	Reporteu:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	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.



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	4/16/2021 2:20:44PM

CONF01-3' E104052-01

		E104032-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/13/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/12/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		93.1 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116021
Chloride	ND	200	10	04/14/21	04/14/21	

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	4/16/2021 2:20:44PM

CONF02-0.5'

		E104052-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		95.3 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116021
Chloride	250	20.0	1	04/14/21	04/14/21	



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	4/16/2021 2:20:44PM

CONF03-1'

		E104052-03						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: n-Nonane		90.3 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021		
Chloride	115	20.0	1	04/14/21	04/14/21			



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	4/16/2021 2:20:44PM

CONF04-1'

		E104052-04						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: n-Nonane		93.7 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021		
Chloride	140	20.0	1	04/14/21	04/14/21			



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	4/16/2021 2:20:44PM

CONF05-1'

E104052-05								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: n-Nonane		86.5 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021		
Chloride	65.6	20.0	1	04/14/21	04/15/21			



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	4/16/2021 2:20:44PM

CONF06-1'

E104052-06								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.8 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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			
Surrogate: n-Nonane		89.1 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021		
Chloride	766	20.0	1	04/14/21	04/15/21			



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	4/16/2021 2:20:44PM

CONF07-0.5'

E104052-07								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2116012		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	04/12/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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			
Surrogate: n-Nonane		97.0 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2116021		
Chloride	316	20.0	1	04/14/21	04/15/21			



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	4/16/2021 2:20:44PM

CONF08-1'

E104052-08							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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		
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	04/12/21	04/14/21		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2116012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21		
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/12/21	04/14/21		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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		
Surrogate: n-Nonane		95.9 %	50-200	04/13/21	04/13/21		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2116021	
Chloride	74.4	20.0	1	04/14/21	04/15/21		



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	4/16/2021 2:20:44PM

CONF10-1' E104052-09

Analyzed 04/14/21 04/14/21 04/14/21	Notes Batch: 2116012
04/14/21 04/14/21	Batch: 2116012
04/14/21 04/14/21	
04/14/21	
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04/14/21	
04/14/21	
	Batch: 2116012
04/14/21	
04/14/21	
	Batch: 2116016
04/13/21	
04/13/21	
04/13/21	
	Batch: 2116021
04/15/21	
	04/14/21 04/14/21 04/14/21 04/13/21 04/13/21 04/13/21



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	4/16/2021 2:20:44PM

CONF11-1'

E104052-10						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: n-Nonane		93.0 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2116021
Chloride	81.2	20.0	1	04/14/21	04/15/21	



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	4/16/2021 2:20:44PM

CONF13-2'

E104052-11						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		96.0 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2116021
Chloride	96.9	20.0	1	04/14/21	04/15/21	



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	4/16/2021 2:20:44PM

CONF14-2' E104052-12

		E104052-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		94.8 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2116021
Chloride	119	20.0	1	04/14/21	04/15/21	



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	4/16/2021 2:20:44PM

CONF17-2'

E104052-13						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: 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	
Surrogate: n-Nonane		94.4 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116021
Chloride	371	200	10	04/14/21	04/15/21	



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	4/16/2021 2:20:44PM

CONF18-2'

E104052-14						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		98.1 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021
Chloride	74.9	20.0	1	04/14/21	04/15/21	·



Chloride

Sample Data

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	4/16/2021 2:20:44PM

CONF19-2'

E104052-15						
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: 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	
Surrogate: n-Nonane		96.9 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2116021

200

ND

10

04/14/21

04/15/21



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	4/16/2021 2:20:44PM

CONF20-1'

		E104052-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		96.6 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021
Chloride	104	20.0	1	04/14/21	04/15/21	



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	4/16/2021 2:20:44PM

CONF21-1'

		E104052-17				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
o,m-Xylene	ND	0.0500	1	04/12/21	04/14/21	
Total Xylenes	ND	0.0250	1	04/12/21	04/14/21	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		90.3 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2116021
Chloride	141	20.0	1	04/14/21	04/15/21	



Chloride

Sample Data

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	4/16/2021 2:20:44PM

CONF22-1'

		E104052-18				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Limit	Dilution	rrepared	Anaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		97.0 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116021

20.0

88.1

04/14/21

04/15/21



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	4/16/2021 2:20:44PM

CONF23-1' E104052-19

		E104052-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		94.4 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116021
Chloride	68.9	20.0	1	04/14/21	04/15/21	



Sample Data

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	4/16/2021 2:20:44PM

CONF24-1'

		E104052-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2116012
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/12/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		96.4 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2116021
Chloride	119	20.0	1	04/14/21	04/15/21	



QC Summary Data

		QC 50	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ary Dat	и				
WPX Energy - Carlsbad		Project Name:	R	DX Federal 10	0-15 02.19	0.21 Spill			Reported:
5315 Buena Vista Dr		Project Number:	0	4108-0639					
Carlsbad NM, 88220		Project Manager:	A	Ashley Gioveng	go				4/16/2021 2:20:44PM
		Volatile O	rganics	by EPA 802	21B				Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116012-BLK1)						Pre	pared: 04/1	12/21 Anal	yzed: 04/13/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			
LCS (2116012-BS1)						Pre	pared: 04/1	12/21 Anal	yzed: 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			
Coluene	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)				Sou	rce: E104	052-01 Pre	pared: 04/1	12/21 Anal	yzed: 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			
-Xylene	5.22	0.0250	5.00	ND	104	63-131			
o,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)				Sou	rce: E104	052-01 Pre	pared: 04/1	12/21 Anal	yzed: 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	



70-130

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			4/	16/2021 2:20:44PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116012-BLK1)						Pre	pared: 04/	12/21 Analyz	zed: 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)						Pre	pared: 04/	12/21 Analyz	zed: 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)				Sou	rce: E104	052-01 Pre	pared: 04/	12/21 Analyz	zed: 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)				Sou	rce: E104	052-01 Pre	pared: 04/	12/21 Analyz	zed: 04/14/21
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	0.302	20	

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			4/1	6/2021 2:20:44PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116016-BLK1)						Pre	pared: 04/1	3/21 Analyz	ed: 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)						Pre	pared: 04/1	3/21 Analyz	ed: 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)				Sou	rce: E104	052-04 Pre	pared: 04/1	3/21 Analyz	ed: 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)				Sou	rce: E104	052-04 Pre	pared: 04/1	3/21 Analyz	ed: 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 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: (RDX Federal 10 04108-0639 Ashley Gioveng			Reported: 4/16/2021 2:20:44PM		
		Anions	by EPA	300.0/9056	4				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
						_			

mg/kg	mg/kg	mg/kg	mg/kg	70	70	70	70	Notes
					Pre	pared: 04/1	4/21 Analyz	red: 04/14/21
ND	20.0							
					Pre	pared: 04/1	4/21 Analyz	ed: 04/14/21
245	20.0	250		98.0	90-110			
			Sou	rce: E1040	052-01 Pre	pared: 04/1	4/21 Analyz	ed: 04/14/21
342	200	250	ND	137	80-120			M5
			Sou	rce: E1040	052-01 Pre	pared: 04/1	4/21 Analyz	ed: 04/14/21
338	200	250	ND	135	80-120	1.06	20	M5
	ND 245 342	ND 20.0 245 20.0 342 200	245 20.0 250 342 200 250	ND 20.0 245 20.0 250 Sou 342 200 250 ND Sou	ND 20.0 245 20.0 250 98.0 Source: E1040 342 200 250 ND 137 Source: E1040	Pre ND 20.0 Pre 245 20.0 250 98.0 90-110 Source: E104052-01 Pre 342 200 250 ND 137 80-120 Source: E104052-01 Pre	Prepared: 04/1 ND 20.0 Prepared: 04/1 245 20.0 250 98.0 90-110 Source: E104052-01 Prepared: 04/1 342 200 250 ND 137 80-120 Source: E104052-01 Prepared: 04/1	Prepared: 04/14/21 Analyz ND 20.0 Prepared: 04/14/21 Analyz 245 20.0 250 98.0 90-110 Source: E104052-01 Prepared: 04/14/21 Analyz 342 200 250 ND 137 80-120 Source: E104052-01 Prepared: 04/14/21 Analyz

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

ſ	WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	
١	5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
١	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.



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Project Information	Chai	in of Custo	dy											Page	of_
Client: NPX Energy Permian, L	LC Bill To				La	b Us	se On	ly				TA	T	EPA P	rogram
Project: 20x Fcderal 10-15 02.19	2) Attention: Jim Raley		1000-3000	WO#			Job	Numb	er	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovens SP	Address: 5315 Bugnavist	a Dr.	EIG	34	05		CA	OR	100	1			X		
Address: 1224 standpipe Rd	City, State, Zip Carlsbad, NA						Analy	sis and	Metho	d	_				RCRA
City, State, Zip Carlsbad, N.M. 8872 Phone: (505) 382-1211			3			Ш								Chatta	
	c Emailsames, raleyaw	6x	8015	8015			1, 11						NM CO	State	LTVI
Report due by:	energy.com		RO by 8	30 by 8	18021	8260	0109	e 300.0		ž	×		NIV CO	UI AZ	IX
Time Date Matrix No. of Centainers Sample ID		Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
10:18amp4/7/21 5 1:AV CONF	01-3'	1								X					
07:13 mp4/2/21 5 1jar CONF		2								X					
2:00pm 4/7/21 5 1jar CONF		3								X					
2:20000417/21 5 1-AT CONF		4								1					
02:26 9 04/2/2 5 1-ar CONF		5								X					
02:30 04/2/215 1; AT CONF		6								X					
01:29-54/7/2 5 1jar CONF		7								X					
04:09004/7/215 1jar CONF		8								X					
04:34 04/7/21 5 1:AT CONF	· · ·	9								7					
•	nice, cc shar. harv	10								1					1
Additional Instructions: Preserved	nice, cc shar. harv	ester	N	w	esco	om	inc	. c	om						
I, (field sampler), attest to the validity and authenticity of this san		pelling the samp	ple loca	ation,									elved on ice the day t "C on subsequent da		ed or received
(Velinivisted by: Signature) Date 04/9/21	Received by: (signature)	Date 4.9.2	21	Time		4	Rece	eived (on ice:	1	ab Us	se Onl	У		
Relinquisted by: (Signature) Date 4.9.21	1345 Rederved by: (Signature)	Date 4/10/		Time			T1_			T2			<u></u>		
Religiuished by: (Signature) Date	me Received by: (Signature)	Date		Time			AVG	Temp	o°c 4	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Ot	her	Containe	r Type	e: g - {	glass,		_			er gla	ss, v -	VOA			
Note: Samples are discarded 30 days after results are reposamples is applicable only to those samples received by the										lient e	xpense	e. The	report for the a	nalysis of th	ne above



he client expense. The report for the analysis of the above

Attention: Jim Rales

EPA Program

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Project: 1DX Federal 10-15 07	19.21 Attention: Jim Raley		Lab	WO#			Job N	umber	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Graver Address: 1724 Standpize Rd	Address: 53 15 Buena Vista	Dr.	FK	XX	5	7 (3410	180034				V		
Address: 1224 Standpize Rd	City, State, Zip Carlsbad, Nr	n 882	20				Analys	is and Metho	d					RCRA
City, State, Zip Carlsbad N.m.	88720 Phone: (575) (189 - 7597													
Phone: (505) 382-1211	energy. com	1	15	101		Ш	91						State	
Report due by: giovenso a) wo	escom energy, com		y 8015	y 8015	H			0.0	-				UT AZ	TX
Report due by:			RO b	RO b	/ 802	826	6010	e 30(Z.	×		X	10 11 11	
Time Date Matrix No. of Containers Sampled Sampled	pple ID	Lab Number	око/око њу	GRO/DI	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	всрос	BGDOC			Remarks	
0:23 4 4/8/21 5 1:ar	CONF 13 - 2'	1.1							X					
10:40 418/21 5 1jar c	ONF14-2'	12							X					
	ONF 17- 2'	13							X					
11:17 4/8/21 5 1jar (ONF 18-2'	14							X					
11:20 4/8/2 5 1 ar c	ONF 19 -21	15							X					
12:19 04/8/21 5 1:ar C	ONF 20-1'	10							X					
12:20 04/8/21 5 1:ar C	ONF 21-1'	17			Щ				X					
12:34041812 5 1jar C	ONF 22 -1'	18							X,					
12:3004/8/21 5 1jar C	ONF 23 - 1'	19							X					
2: 5404/8/215 1:00 C	ONF24-1'	20				Į			X					
Additional Instructions: Preserve	don ice, cc shar harvest	era	w	esc	on	111	nc.	com						
I, (field sampler), attest to the validity and authenticity of	of this sample. I am aware that tampering with or intentionally mislabell e grounds for legal action. Sampled by:	ing the samp	le loca	tion,								ived on ice the day "C on subsequent da		ed or received
Relinquiched by Senature) Date .	Time Received by: (Signature)	Date 4.9.2		Time	24		Recei	ved on ice:		ab Us	se Only	У		
Reininguissed by: (Signature)	Time Received by: (Signature)	Date 4/10/2			00		Т1		T2			<u></u>		
Relibquished by: (Signature) Date	Time Received by: (Signature)	Date		Time			AVG 1	Temp °C	+					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueou						- po	ly/pla:	stic, ag - amb						
	are reported unless other arrangements are made. Hazardous								ient e	xpens	e. The	report for the a	nalysis of th	ne above
samples is applicable only to those samples receiv	ed by the laboratory with this COC. The liability of the laboratory	y is limited t	o the	amour	nt paid	for o	n the	report.						



Lab Use Only

the client expense. The report for the analysis of the above

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

	2:00	Work Order ID: E104052
d In: 04/12/21 1	0:27	Logged In By: Alexa Michaels
04/16/21 1	17:00 (4 day TAT)	
Yes		
1		
140	Carrier: I	vnn Fetes
	Carrier. <u>L</u>	yiii Estes
Yes		
	ŗ	Comments/Resolution
		Draigat - DDV Fadoral 10 15 02 10 21 Smill
Yes		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
Yes		WO - E104052 and samples 21-33 will be
Yes		on WO - E104053
No		
NA		
e: <u>4°C</u>		
No		
NA		
NA		
NA		
Yes		
d? Yes		
res		
No		
No		
11/1		
3.7		
No NA	Subcontract Lab	: NA
j	Yes Yes Yes Yes Yes Yes No NA Yes i 15 E: 4°C No NA NA NA NA Yes	Yes

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF25-1'	5
CONF26-1'	6
CONF27-1'	7
CONF28-1'	8
CONF29-2'	9
CONF30-2'	10
CONF31-1'	11
CONF33-2'	12
CONF34-2'	13
CONF35-1'	14
CONF36-1'	15
CONF37-1'	16
CONF38-2'	17
QC Summary Data	18
QC - Volatile Organics by EPA 8021B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

Sample Summary

_			-	
ſ	WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
١	5315 Buena Vista Dr	Project Number:	04108-0639	Reporteu:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	04/15/21 13:13

		35			
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.

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	4/15/2021 1:13:23PM

CONF25-1' E104053-01

		E104053-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/13/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	04/13/21	04/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		101 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116024
Chloride	60.6	20.0	1	04/14/21	04/14/21	



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	4/15/2021 1:13:23PM

CONF26-1' E104053-02

		E104055-02				
	D. Iv	Reporting		D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: n-Nonane		102 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2116024
Chloride	130	20.0	1	04/14/21	04/14/21	



Sample Data

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	4/15/2021 1:13:23PM

CONF27-1'

E104053-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		99.5 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116024
Chloride	166	20.0	1	04/14/21	04/14/21	



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	4/15/2021 1:13:23PM

CONF28-1'

E104053-04						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		102 %	50-200	04/13/21	04/13/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116024
Chloride	153	20.0	1	04/14/21	04/14/21	



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	4/15/2021 1:13:23PM

CONF29-2'

E104053-05								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2116014		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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			
Surrogate: n-Nonane		102 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2116024		
Chloride	49.8	20.0	1	04/14/21	04/14/21			



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	4/15/2021 1:13:23PM

CONF30-2'

E104053-06								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2116014		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	llyst: 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			
Surrogate: n-Nonane		106 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2116024		
Chloride	194	20.0	1	04/14/21	04/14/21			



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	4/15/2021 1:13:23PM

CONF31-1'

E104053-07								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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			
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2116014		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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			
Surrogate: n-Nonane		104 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2116024		
Chloride	117	20.0	1	04/14/21	04/14/21			



Chloride

Sample Data

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	4/15/2021 1:13:23PM

CONF33-2'

E104053-08								
Reporting								
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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			
p-Xylene	ND	0.0250	1	04/13/21	04/14/21			
o,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: 4-Bromochlorobenzene-PID		102 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2116014		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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			
Surrogate: n-Nonane		105 %	50-200	04/13/21	04/13/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2116024		

200

210

10

04/14/21

04/14/21



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	4/15/2021 1:13:23PM

CONF34-2' E104053-09

		E104053-09				
Austra	D14	Reporting Limit	Dilution	Doggan	A lama d	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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		104 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2116024
Chloride	279	20.0	1	04/14/21	04/14/21	



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	4/15/2021 1:13:23PM

CONF35-1'

E104053-10								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2116014		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21			
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	Ana	alyst: RAS		Batch: 2116024		
Chloride	275	20.0	1	04/14/21	04/14/21			



Chloride

Sample Data

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	4/15/2021 1:13:23PM

CONF36-1'

		E104053-11				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,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: 4-Bromochlorobenzene-PID		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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		105 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2116024

20.0

108

04/14/21

04/14/21



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	4/15/2021 1:13:23PM

CONF37-1'

		E104053-12				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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		106 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2116024
Chloride	57.9	20.0	1	04/14/21	04/14/21	



Chloride

Sample Data

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	4/15/2021 1:13:23PM

CONF38-2'

		E104053-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2116014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/21	04/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/13/21	04/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		104 %	50-200	04/13/21	04/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2116024

20.0

04/14/21

04/15/21

396



QC Summary Data

RDX Federal 10-15 02.19.21 Spill WPX Energy - Carlsbad Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Prepared: 04/13/21 Analyzed: 04/13/21 Blank (2116014-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.14 8.00 102 70-130 Prepared: 04/13/21 Analyzed: 04/13/21 LCS (2116014-BS1) 4.63 92.5 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.57 0.0250 5.00 91.4 70-130 4.71 0.0250 5.00 94.1 70-130 Toluene o-Xylene 4.65 0.0250 5.00 93.1 70-130 9.22 10.0 92.2 70-130 0.0500 p.m-Xvlene 92.5 13.9 15.0 70-130 Total Xylenes 0.0250 8.00 104 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.31 **Source: E104053-01** Prepared: 04/13/21 Analyzed: 04/13/21 Matrix Spike (2116014-MS1) 5.08 0.0250 5.00 ND 102 54-133 Benzene 101 61-133 Ethylbenzene 5.04 0.0250 5.00 ND Toluene 5.18 0.0250 5.00 ND 104 61-130 ND 103 63-131 5.14 5.00 0.0250 o-Xylene p,m-Xylene 10.1 0.0500 10.0 ND 101 63-131 15.3 0.0250 15.0 ND 63-131 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 8.26 8.00 70-130 **Source: E104053-01** Prepared: 04/13/21 Analyzed: 04/13/21 Matrix Spike Dup (2116014-MSD1) 4.68 0.0250 5.00 ND 93.7 54-133 8.18 61-133 4.63 0.0250 5.00 ND 92.7 8.34 20 Ethylbenzene Toluene 4 75 0.0250 5.00 ND 95.0 61-130 8 68 20

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

94.6

93.4

93.8

104

63-131

63-131

63-131

70-130

8.28

8.17

8.21

20

20

20



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

4.73

9.34

14.1

8.30

Surrogate: 1-Chloro-4-fluorobenzene-FID

8.31

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			4/1	5/2021 1:13:23PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116014-BLK1)						Pre	pared: 04/	13/21 Analyz	ed: 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)						Pre	pared: 04/	13/21 Analyz	ed: 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)				Sou	rce: E104	053-01 Pre	pared: 04/	13/21 Analyz	ed: 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)				Sou	rce: E104	053-01 Pre	pared: 04/	13/21 Analyz	ed: 04/13/21
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	1.07	20	

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

Carlsbad NM, 88220		Project Manager	r: As	shley Gioveng	go			4/1:	5/2021 1:13:23PM
	Nonhal	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116018-BLK1)						Pre	pared: 04/1	3/21 Analyze	ed: 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)						Pre	pared: 04/1	3/21 Analyze	ed: 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)				Sou	rce: E104	053-03 Pre	pared: 04/1	3/21 Analyze	ed: 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)				Sou	rce: E104	053-03 Pre	pared: 04/1	3/21 Analyze	ed: 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			

Matrix Spike Dup (2116024-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manager	: (RDX Federal 1 4108-0639 Ashley Gioven		2.21 Spill		4	Reported: 4/15/2021 1:13:23PM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2116024-BLK1)						Pre	pared: 04/	14/21 Anal	yzed: 04/14/21
Chloride	ND	20.0					1.04//	14/21 4 1	1.04/14/01
LCS (2116024-BS1)						Pre	pared: 04/	14/21 Anal	yzed: 04/14/21
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2116024-MS1)				Sou	rce: E104	053-01 Pre	pared: 04/	14/21 Anal	yzed: 04/14/21
Chloride	306	20.0	250	60.6	98.0	80-120			

250

20.0

60.6

104

80-120

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.



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

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.



	1
	age
	10
-	g of
-	18

Project Information		of Custod												Page _	O_of	
Client: WPY Energy Permian, LIC	Bill To	Bill To ntion:) im faley ress: 5315 by eng wish fr. State, Zip Carlebad, N.M. 68 ne: (575) 489 - >597		Lab Use Only						11.		TA	EPA P	rogram		
Project: RDX Federal 10-15 02.19.2	21 Attention: Sim Raley			Lab WO#			Job Number			1D	2D 3	3D Stan	Standard	CWA	SDWA	
Project Manager: Ashley Giovensospill	Address: 5315 Buena Vis	cpr.	EK	XX	35	3		2800			111		+	7 1-1		
Address: 1224 Standpipe Rd	City, State, Zip Carlebad, Nir	J. 60	CC	U			Analy	sis and N	lethod						RCRA	
Phone: (505) 382-12 (1	Phone: (5 75) (187 - 757)	1	0.7													
Emails of State of Overson Dures Color	energy com	36×	by 8015	8015				-					NIMI CO	State UT AZ	TX	
Report due by: inc. com	· energy com				170	260	010	300.0		2	X		NIVI CO	UT AZ	17	
Time Date Matrix Ma, of Containers Sample ID		Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		ВСБОС	BGDOC 1			Remarks		
2:56 04/8/21 5 1-ar CONF20	5-1	21								X						
2:15pm 04/8/21 5 1jar CONFIL	e -1'	22								X						
3:270004/8/21 5 13AV CONFZ-	7-11	23								X						
03:30pmb4/8/215 1:08 CONFZ8	8-1	24								X						
64:48 04/8/215 1jar CONFZ	1-2'	25								X						
04:51 54/8/21 5 1jac CONF36	0-2'	20								X						
02:39 04/8/215 1jar CONF3	I = 1 1	27								X						
05:30 04/8/21 5 1; ar CONF3		28								X						
05:33 64/8/21 5 1-ar CON F34		29								X						
LA	5-1' ice, cc sher. harves to	30								X						
Additional Instructions: Preserved on i	ice, cc sher harves to	FN	ے در	500	m	in	c . c	om								
I, (field sampler), attest to the validity and authenticity of this sample. I a date or tipe of collection is considered fraud and may be grounds for leg-	ling the samp	ple location, Samples requiring thermal preservation must be received on ice the day they are sampled or receive packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by Aignature) Date Time Received by: (Signature)			Date Time				Lab Use Only									
10/95		4.9.21 1		1324		Received on ice: (Y) N										
Relinquished by: (Signature) Date Time 4-9-21 /35	Received by (Signature)	Date 4		Time		O	T1	A-A-A-A		T2			T3			
Rether shed by: (Signature) Date Time	Received by: (Signature)	Date		AVG Temp °C 4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other			Туре	e: g - [glass,	p - p	oly/pla	astic, ag	ambe	r glas	s, v -	VOA				
Note: Samples are discarded 30 days after results are reported up									the cli	ent ex	pens	e. The	report for the a	nalysis of th	ne above	
samples is applicable only to those samples received by the labor															- 11	



@ envirotech

Client: INPX Energy Permian, LLC	Bill To			Lab	Use	Only					TA	T	EPA P	rogram
Client: INTX Energy Promian LC Project: PDX Federal 10-15 02.19. 21 Attention: Project Manager: Abhley Giovengos pi il Address: Address: 1221 Standalpe Ed City, State, Zip Carls back, Nm 88220 Phone: (6	Simpaley 315 Buena Vista Dr. Zip Carlsbad, NM 8822	Lab	WO#		30	ob N	umbe 80	639		2D	3D	Standard	CWA	SDW
City, State, Zip Carlsback, Nm 88220 Phone: (505) 382-1211 Email: ashley giovenso Dweson Report due by: inc - com	25) 689 - 7597 -es. raley Dwpx	oy 8015	J by 8015	8021	1			Method	NM	×		NM CC	State UT AZ	TX TX
Time Date Sampled Matrix Containers Sample ID	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VUC BY 8280	Metals 6010	Chloride 300.0		ВСВОС	BGDOC		-/51	Remarks	
4:361 04/8/21 5 1jar CONF36-17	31								X					
4:4204/8/21 5 1jar CONF 37-1"	32								1					
4:36 64/8/2 3 1jar CONF36-19 4:42 64/8/2 5 1jar CONF 37-1 6:08 64/8/2 5 1jar CONF38-2	33								1					
				1	4		1							
				+	+			-						
				+	+		+	-						
				+	+		+			-				
			H	+	+		+			-				
			-	+	+									
Additional Instructions: Treserved on ice, cc	shar, harvester 2	دس	esc	om	in	c - 0	cor	2						
(field sampler), attest to the validity and authenticity of this sample. I am aware that tame at or time of collection is considered fraud and may be grounds for legal action.	ering with or intentionally mislabelling the samp	le loca	tion,									eived on ice the day		led or receiv
elinquisted & demanature) Date 9/2 51: 24 on	d by: (Signature) S & Date 4.9.1	2	Time	329	/ F	Receiv	ved o	n ice:		ab U	se Onl	ly		
2 4-9.21 1345	d by: (Signature) Date Date Date	21	Time Time	:00		T1 AVG T	ome	°c	12		-	<u>T3</u>		
					1.6	AVIT	PHILL)	- [



enviroteches

enviroteches

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	04/10/21	12:00	Work Order ID: E	104053
Phone:		Date Logged In:	04/12/21			Alexa Michaels
Email:		Date Logged III. Due Date:		17:00 (4 day TAT)	Logged III By.	vicxa iviiciiacis
Lillan.	asincy.grovengo@wesoninic.com	Duc Date.	04/10/21	17.00 (4 day 1711)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>L</u>	ynn Estes	
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes	<u> </u>		
5. Were a	all samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion			ŗ	Comments/I	Resolution
	Turn Around Time (TAT)				Durainest - DDV Frederical 10	15 02 10 21 5!!
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Project: RDX Federal 10	-
Sample	<u>Cooler</u>				has been divided into 2 w	ork orders due to
7. Was a	sample cooler received?		Yes		sample quantity. Samples	1-20 will be on
8. If yes,	was cooler received in good condition?		Yes		WO - E104052 and samp	
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		on WO - E104053	100 21 00 Hill 00
10. Were	custody/security seals present?		No		OII WO - E104053	
	s, were custody/security seals intact?		NA			
•	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°	С			
	Container	<u> </u>	_			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	ers collected?	Yes			
Field La		as conceica:	103			
	e field sample labels filled out with the minimum inform	mation				
	Sample ID?	mation.	Yes			
	Date/Time Collected?		Yes	l		
(Collectors name?		Yes			
Sample :	Preservation					
21. Does	the COC or field labels indicate the samples were pre-	served?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lab	o filteration required and/or requested for dissolved me	etals?	No			
<u>M</u> ultiph	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase	e?	No			
	s, does the COC specify which phase(s) is to be analyz		NA			
			. 17.1			
	ract Laboratory	,n	NI-			
	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	: NA	
Client I	nstruction					
<u> </u>					D-4-	envirotech Inc
Signa	ture of client authorizing changes to the COC or sample dispo	osition.			Date	ELIMITORECH THE

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF09-2'	5
CONF15-2.5'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

ſ	WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	Reported:
1	5315 Buena Vista Dr	Project Number:	04108-0136	Reported.
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	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.



WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:04108-0136Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:21:56PM

CONF09-2' E104054-01

		E104034-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2116019
Benzene	ND	0.0250	1	l	04/14/21	04/16/21	
Ethylbenzene	ND	0.0250	1	l	04/14/21	04/16/21	
Toluene	ND	0.0250	1	l	04/14/21	04/16/21	
o-Xylene	ND	0.0250	1	l	04/14/21	04/16/21	
p,m-Xylene	ND	0.0500	1	l	04/14/21	04/16/21	
Total Xylenes	ND	0.0250	1	l	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene		96.3 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4		120 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8		91.4 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2116019
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/14/21	04/16/21	
Surrogate: Bromofluorobenzene		96.3 %	70-130		04/14/21	04/16/21	
Surrogate: 1,2-Dichloroethane-d4		120 %	70-130		04/14/21	04/16/21	
Surrogate: Toluene-d8		91.4 %	70-130		04/14/21	04/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: I	ΗT		Batch: 2116034
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/15/21	04/15/21	
Oil Range Organics (C28-C35)	ND	50.0	1	l	04/15/21	04/15/21	
Surrogate: n-Nonane		94.6 %	50-200		04/15/21	04/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	RAS		Batch: 2116024
Chloride	130	20.0	1	1	04/14/21	04/15/21	



WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:04108-0136Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:21:56PM

CONF15-2.5' E104054-02

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

20.0

186

1

04/14/21

04/15/21



Chloride

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

	V	olatile Organ	ic Compoi	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116019-BLK1)						Pre	pared: 04/1	4/21 Analyze	ed: 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)						Pre	pared: 04/1	4/21 Analyze	ed: 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)				Sou	rce: E1040	054-01 Pre	pared: 04/1	4/21 Analyze	ed: 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)				Sou	rce: E1040	054-01 Pre	pared: 04/1	4/21 Analyze	ed: 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			



0.500

70-130

0.503

Surrogate: Toluene-d8

QC Summary Data

RDX Federal 10-15 02.19.21 Spill WPX Energy - Carlsbad Project Name: 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	v EPA 8015D	- GRO

Analyst: IY

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116019-BLK1)						Pre	pared: 04/1	4/21 Analyz	ed: 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)						Prej	pared: 04/1	4/21 Analyz	ed: 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			
7 . 77 1 10	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500						
Matrix Spike (2116019-MS2)	0.307		0.500	Sou	rce: E104(pared: 04/1	4/21 Analyz	ed: 04/16/21
	60.7	20.0	50.0	Sou			pared: 04/1	4/21 Analyz	ed: 04/16/21
Matrix Spike (2116019-MS2)		20.0			rce: E1040	054-01 Prej	pared: 04/1	4/21 Analyz	ed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10)	60.7	20.0	50.0		rce: E1040	70-130	pared: 04/1	4/21 Analyz	ed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	60.7 0.497	20.0	50.0		121 99.4	70-130 70-130	pared: 04/1	4/21 Analyz	ed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	60.7 0.497 0.511	20.0	50.0 0.500 0.500	ND	121 99.4 102	70-130 70-130 70-130 70-130		4/21 Analyz	
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	60.7 0.497 0.511	20.0	50.0 0.500 0.500	ND	121 99.4 102 99.8	70-130 70-130 70-130 70-130			
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2116019-MSD2)	60.7 0.497 0.511 0.499		50.0 0.500 0.500 0.500	ND Sou	121 99.4 102 99.8 rce: E1040	70-130 70-130 70-130 70-130 70-130 70-130	pared: 04/1	4/21 Analyz	
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2116019-MSD2) Gasoline Range Organics (C6-C10)	60.7 0.497 0.511 0.499		50.0 0.500 0.500 0.500	ND Sou	121 99.4 102 99.8 rce: E1040	70-130 70-130 70-130 70-130 70-130 70-130 Pre 70-130	pared: 04/1	4/21 Analyz	



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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioven	go			4/1	9/2021 4:21:56PM		
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: HT		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2116034-BLK1)						Pre	pared: 04/	15/21 Analyz	ed: 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)						Pre	pared: 04/	15/21 Analyz	ed: 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)				Sou	ırce: E104	054-01 Pre	pared: 04/	15/21 Analyz	ed: 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)				Sou	ırce: E104	054-01 Pre	pared: 04/	15/21 Analyz	ed: 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					

Matrix Spike Dup (2116024-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: 0	RDX Federal 10 4108-0136 Ashley Giovens		0.21 Spill		4	Reported: 4/19/2021 4:21:56PM
		Anions	by EPA	300.0/9056	4				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
Blank (2116024-BLK1)						Pre	pared: 04/	14/21 Analy	yzed: 04/14/21
Chloride	ND	20.0							
LCS (2116024-BS1)						Pre	pared: 04/	14/21 Analy	yzed: 04/14/21
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2116024-MS1)				Sou	rce: E104	053-01 Pre	pared: 04/	14/21 Analy	yzed: 04/14/21
Chloride	306	20.0	250	60.6	98.0	80-120			

250

20.0

60.6

104

80-120

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.



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

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.



Project Information	Chain of Custo	dy											Page 1 of
Project: Por Federal 10-6 02 19.21 Attention: Sim	II To	Lab	WO!	; —	ab U	se Onl	Jumb		L_	2D	3D	AT Standard	EPA Program CWA SDWA
Phone: (5%) 387-1211		1	27	54_ 		_		d Metho	_			*	RCRA
	om wey	RO by 8015	3O by 8015	18021	8260	6010	90000		ΣZ	۲		NM CO	7-
Time Date Matrix No. of Containers Sample ID	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks
2:57 04/09/2 5 1jar CONFOQ-2:		\perp	ļ.,	_					7				
2:38 64 07 kg 5 1 jar CONF 15 - 2.5'	2	<u> </u>	_						X				
		-							-				
		_											×-10
		_							_				
		-	1	-				_		_			
			-					-	<u></u>	-			
Additional Instructions: Preserved on ice please coportion 1, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or in	shar. harves	ter	- へ	, دی	es e	on	in	c . C	m]		J. C.
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or indate or tipe of collection is considered fraud and may be grounds for legal action. Sampled b		ple foc	ation,			Sample: packed	s regulri in loe at	ing thermal	preserve p above	ation m		eceived on ice the day 6 °C on subsequent do	they are sampled or received ays.
Relinquished by: (Signature) Date Time Received by: (Signature) Date Date Time Received by: (Signature) Date Date	-E 7 4-12 -		Time	402		Rece	ived	on ice:		Lab L	lse Or	nly	
Reininguished by: (Signature) Date Time Received by: (Signature)	Ure) Date	σι	Time	5: 5€	<u>ر</u>	T1 AVG	Tem	——— р°С '	<u> </u>			<u>T3</u>	
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other agreements are	Containe	r Typ	e: g -	glass,	, p - p	olv/pla	stic.	ag - amb	er gla	ass, v	- VOA		
Note: Samples are discarded 30 days after results are reported unless other arrangements are a samples is applicable only to those samples received by the laboratory with this COC. The liability	ity of the laboratory is limited	to the	e amo	ed to unt pa	client old for	or disp on the	repor	of at the o	lient :	expen:	se. Th	e report for the a	analysis of the above
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Printed: 4/13/2021 9:55:17AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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)						
	the sample ID match the COC?		Yes				
	he number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	ion une e e e	Yes Yes	Carriar: I	_ab Carrier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>L</u>	Lau Carrier		
	ill samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			ſ		Commen	ts/Resolution
	Furn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		cc shar.har	vester@wesc	cominc.com
Sample (· •						
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
12. Was th	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	<u>Container</u>		_				
_	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	a trip blank (TB) included for VOC analyses?		NA				
18. Are r	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La	<u>bel</u>						
20. Were	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
	Oate/Time Collected? Collectors name?		No	•			
	Preservation		Yes				
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?	eservea.	NA				
	filteration required and/or requested for dissolved m	netals?	No				
	ase Sample Matrix		1,0				
	the sample have more than one phase, i.e., multipha	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
		,204.	INA				
	ract Laboratory	9	3.7				
	amples required to get sent to a subcontract laborator	•	No	0.1	374		
	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab): NA		
Client I	<u>nstruction</u>						
							0

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

•	Title Page	1
(Cover Page	2
•	Table of Contents	3
;	Sample Summary	5
;	Sample Data	6
	CONF12-2.5'	6
	CONF16-2.5'	7
	CONF32-1'	8
	CONF39-2.5'	9
	CONF40-3' 6"	10
	CONF42-Wall	11
	CONF43-Wall	12
	CONF44-3'	13
	CONF45-2'	14
	CONF46-3'	15
	CONF47-3.5'	16
	CONF48-2' 6"	17
	CONF49-3.5'	18
	CONF52-Wall	19
	CONF53-Wall	20
	CONF54-Wall	21
	CONF50-3'	22
	CONF51-3'	23
	SS47-0	24
	CONF55-0.5'	25

Table of Contents (continued)

CONF56-0.5'	26
CONF57-0.5'	27
CONF58-0.5'	28
CONF59-0.5'	29
QC Summary Data	30
QC - Volatile Organic Compounds by EPA 8260B	30
QC - Nonhalogenated Organics by EPA 8015D - GRO	32
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
QC - Anions by EPA 300.0/9056A	36
Definitions and Notes	38
Chain of Custody etc.	39

Sample Summary

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

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.

WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:24:24PM

CONF12-2.5'

E104055-01

		E101000 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Anaryte	Result	Limit	Dii	ution	Frepared	Anaryzeu	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	



WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:24:24PM

CONF16-2.5' E104055-02

Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilui	tion	rrepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: R	KS		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	1	Analyst: R	KS		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	1	Analyst: H	Т		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	1	Analyst: I	ď		Batch: 2116022
Chloride	130	20.0	1		04/14/21	04/15/21	



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	4/19/2021 4:24:24PM

CONF32-1'

E104055-03									
		Reporting							
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2116015		
Benzene	ND	0.0250	1	1	04/13/21	04/13/21			
Ethylbenzene	ND	0.0250	1	1	04/13/21	04/13/21			
Toluene	ND	0.0250	1	1	04/13/21	04/13/21			
o-Xylene	ND	0.0250	1	1	04/13/21	04/13/21			
p,m-Xylene	ND	0.0500	1	1	04/13/21	04/13/21			
Total Xylenes	ND	0.0250	1	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	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:	НТ		Batch: 2116018		
Diesel Range Organics (C10-C28)	38.4	25.0	1	1	04/13/21	04/14/21			
Oil Range Organics (C28-C35)	ND	50.0	1	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	1	04/14/21	04/15/21			



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	4/19/2021 4:24:24PM

CONF39-2.5' E104055-04

		210.000 01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst: RK	•	111111,200	Batch: 2116015
Volatile Organic Compounds by EPA 8260B	ND	0.0250	1	-	04/13/21	04/13/21	Batch: 2110013
Benzene	ND ND	0.0250	1		04/13/21	04/13/21	
Ethylbenzene	ND ND	0.0250	1		04/13/21	04/13/21	
Toluene			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				
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	I	Analyst: RK	XS .		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	1	Analyst: HT	7		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	1	Analyst: IY			Batch: 2116022
Chloride	219	20.0	1		04/14/21	04/15/21	



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	4/19/2021 4:24:24PM

CONF40-3' 6"

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		Reporting					
Analyte	Result	Limit	Di	lution	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
	89.7	20.0		1	04/14/21	04/15/21	·

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	4/19/2021 4:24:24PM

CONF42-Wall E104055-06

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	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	į	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	



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	4/19/2021 4:24:24PM

CONF43-Wall

		E104055-07					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2116015
Benzene	ND	0.0250	1	1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	1	04/13/21	04/13/21	
Toluene	ND	0.0250	1	1	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	1	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	1	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	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	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:	НТ		Batch: 2116018
Diesel Range Organics (C10-C28)	174	25.0	1	1	04/13/21	04/14/21	
Oil Range Organics (C28-C35)	117	50.0	1	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	1	04/14/21	04/15/21	



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	4/19/2021 4:24:24PM

CONF44-3'

		E104055-08					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	RKS		Batch: 2116015
Benzene	ND	0.0250	1	[04/13/21	04/13/21	
Ethylbenzene	ND	0.0250	1	l	04/13/21	04/13/21	
Toluene	ND	0.0250	1	l	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	l	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	l	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	l	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: I	RKS		Batch: 2116015
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	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: I	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	l	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: I	Y		Batch: 2116022
Chloride	145	20.0	1	1	04/14/21	04/15/21	·



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	4/19/2021 4:24:24PM

CONF45-2' E104055-09

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst:		7 Hidiy Zed	Batch: 2116015
Volatile Organic Compounds by EPA 8260B		0.0250		1	04/13/21	04/13/21	Batch. 2110013
Benzene	ND			1	04/13/21	04/13/21	
Ethylbenzene	ND	0.0250		1	04/13/21	04/13/21	
Toluene	ND	0.0250		1			
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	



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	4/19/2021 4:24:24PM

CONF46-3' E104055-10

	E104033-10					
Dagult	Reporting		tion	Duamanad	A malviga d	Notes
Kesuit	Limit	Dilut	uon	rrepared	Analyzed	inotes
mg/kg	mg/kg	A	Analyst: R	KS		Batch: 2116015
ND	0.0250	1		04/13/21	04/13/21	
ND	0.0250	1		04/13/21	04/13/21	
ND	0.0250	1		04/13/21	04/13/21	
ND	0.0250	1		04/13/21	04/13/21	
ND	0.0500	1		04/13/21	04/13/21	
ND	0.0250	1		04/13/21	04/13/21	
	93.1 %	70-130		04/13/21	04/13/21	
	97.8 %	70-130		04/13/21	04/13/21	
	102 %	70-130		04/13/21	04/13/21	
mg/kg	mg/kg	A	Analyst: R	KS		Batch: 2116015
ND	20.0	1		04/13/21	04/13/21	
	93.1 %	70-130		04/13/21	04/13/21	
	97.8 %	70-130		04/13/21	04/13/21	
	102 %	70-130		04/13/21	04/13/21	
mg/kg	mg/kg	I	Analyst: H	ΙΤ		Batch: 2116034
ND	25.0	1		04/15/21	04/15/21	
ND	50.0	1	·	04/15/21	04/15/21	
	96.8 %	50-200		04/15/21	04/15/21	
mg/kg	mg/kg	A	Analyst: I	Y		Batch: 2116022
	ND	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 97.8 % 102 % mg/kg MD 20.0 93.1 % 97.8 % 102 % 102 % mg/kg mg/kg ND 25.0 ND 50.0	Reporting Result Limit Dilu mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.1 % 70-130 97.8 % 70-130 102 % 70-130 97.8 % 70-130 97.8 % 70-130 102 % 70-130 mg/kg mg/kg ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution mg/kg mg/kg Analyst: R ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.1 % 70-130 97.8 % 70-130 mg/kg mg/kg Analyst: R ND 20.0 1 93.1 % 70-130 70-130 102 % 70-130 70-130 mg/kg mg/kg Analyst: H ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution Prepared mg/kg Malyst: RKS ND 0.0250 1 04/13/21 ND 0.0250 1 04/13/21 ND 0.0250 1 04/13/21 ND 0.0250 1 04/13/21 ND 0.0500 1 04/13/21 ND 0.0250 1 04/13/21 93.1 % 70-130 04/13/21 97.8 % 70-130 04/13/21 mg/kg mg/kg Analyst: RKS ND 20.0 1 04/13/21 93.1 % 70-130 04/13/21 97.8 % 70-130 04/13/21 97.8 % 70-130 04/13/21 102 % 70-130 04/13/21 mg/kg mg/kg Analyst: HT ND 25.0 1 04/15/21 ND 50.0 1 04/15/21	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/13/21 04/13/21 ND 0.0250 1 04/13/21 04/13/21 ND 0.0250 1 04/13/21 04/13/21 ND 0.0500 1 04/13/21 04/13/21 ND 0.0250 1 04/13/21 04/13/21 ND 0.0250 1 04/13/21 04/13/21 93.1 % 70-130 04/13/21 04/13/21 97.8 % 70-130 04/13/21 04/13/21 mg/kg mg/kg Analyst: RKS ND 20.0 1 04/13/21 04/13/21 97.8 % 70-130 04/13/21 04/13/21 97.8 % 70-130 04/13/21 04/13/21 97.8 % 70-130 04/13/21 04/13/21 102 % 70-130 04/13/21 04/13/21



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	4/19/2021 4:24:24PM

CONF47-3.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	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	l	04/13/21	04/13/21	
o-Xylene	ND	0.0250	1	l	04/13/21	04/13/21	
p,m-Xylene	ND	0.0500	1	l	04/13/21	04/13/21	
Total Xylenes	ND	0.0250	1	ļ.	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	l	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:	НТ		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	Į.	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
						04/15/21	



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	4/19/2021 4:24:24PM

CONF48-2' 6"

E104055-12

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	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	į	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



WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:24:24PM

CONF49-3.5'

E104055-13

		Reporting					
Analyte	Result	Limit	Dilı	ution	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:	НТ		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	



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	4/19/2021 4:24:24PM

CONF52-Wall

		E104055-14					
		Reporting					
Analyte	Result	Limit	Dilı	ıtion	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	



WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 Spill5315 Buena Vista DrProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:24:24PM

CONF53-Wall E104055-15

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepar	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	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	I	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	1	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	1	Analyst: IY		Batch: 2116022
Chloride	148	20.0	1	04/14/	21 04/15/21	



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	4/19/2021 4:24:24PM

CONF54-Wall E104055-16

		210.300 10					
Aughte	Result	Reporting Limit		ution	Duomonod	A malviga J	Notes
Analyte	Kesuit	Limit	Dil	ution	Prepared	Analyzed	inotes
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	



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	4/19/2021 4:24:24PM

CONF50-3' E104055-17

	E107033-17				
D14	Reporting		dan Dar	d Austra 1	Notes
Kesuit	Limit	Dilut	non Prepare	a Anaiyzed	Notes
mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2116015
ND	0.0250	1	04/13/2	1 04/14/21	
ND	0.0250	1	04/13/2	1 04/14/21	
ND	0.0250	1	04/13/2	1 04/14/21	
ND	0.0250	1	04/13/2	1 04/14/21	
ND	0.0500	1	04/13/2	1 04/14/21	
ND	0.0250	1	04/13/2	1 04/14/21	
	101 %	70-130	04/13/2	1 04/14/21	
	101 %	70-130	04/13/2	1 04/14/21	
	107 %	70-130	04/13/2	1 04/14/21	
mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2116015
ND	20.0	1	04/13/2	1 04/14/21	
	101 %	70-130	04/13/2	1 04/14/21	
	101 %	70-130	04/13/2	1 04/14/21	
	107 %	70-130	04/13/2	1 04/14/21	
mg/kg	mg/kg	Α	Analyst: HT		Batch: 2116034
ND	25.0	1	04/15/2	1 04/15/21	
ND	50.0	1	04/15/2	1 04/15/21	
	101 %	50-200	04/15/2	1 04/15/21	
mg/kg	mg/kg	A	Analyst: IY		Batch: 2116022
· · · · · · · · · · · · · · · · · · ·	ND N	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % 101 % 107 % mg/kg MD 20.0 101 % 101 % 101 % 107 % mg/kg mg/kg MD 25.0 ND 50.0	Reporting Result Limit Dilut mg/kg mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 101% 101% 70-130 101% ND 20.0 1 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101% 101% 70-130 101%	Reporting Result Limit Dilution Prepare mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/13/2 ND 0.0250 1 04/13/2 ND 0.0250 1 04/13/2 ND 0.0500 1 04/13/2 ND 0.0250 1 04/13/2 ND 0.0250 1 04/13/2 101 % 70-130 04/13/2 101 % 70-130 04/13/2 107 % 70-130 04/13/2 101 % 70-130 04/13/2 101 % 70-130 04/13/2 107 % 70-130 04/13/2 107 % 70-130 04/13/2 107 % 70-130 04/13/2 107 % 70-130 04/13/2 107 % 70-130 04/13/2 107 % 70-130 04/13/2 100 % 70-130 04/13/2 100 %	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/13/21 04/14/21 ND 0.0250 1 04/13/21 04/14/21 ND 0.0250 1 04/13/21 04/14/21 ND 0.0500 1 04/13/21 04/14/21 ND 0.0250 1 04/13/21 04/14/21 ND 0.0250 1 04/13/21 04/14/21 ND 70-130 04/13/21 04/14/21 101 % 70-130 04/13/21 04/14/21 107 % 70-130 04/13/21 04/14/21 101 % 70-130 04/13/21 04/14/21 101 % 70-130 04/13/21 04/14/21 101 % 70-130 04/13/21 04/14/21 107 % 70-130 04/13/21 04/14/21 107 % 70-130 04/13/21 04/14/21



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	4/19/2021 4:24:24PM

CONF51-3' E104055-18

		E104033-10				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Diluti	ion Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	analyst: IY		Batch: 2116022
Chloride	44.6	20.0	1	04/14/21	04/15/21	



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	4/19/2021 4:24:24PM

SS47-0

E104055-19								
		Reporting						
Analyte	Result	Limit	Dilı	ution	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		



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	4/19/2021 4:24:24PM

CONF55-0.5' E104055-20

		E104033-20				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
· ·				Analyst: RKS	Timaryzea	Batch: 2116015
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	F		0.44.40.4	Batch: 2110015
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	A	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	A	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	A	Analyst: IY		Batch: 2116022
Chloride	149	20.0	1	04/14/21	04/15/21	·



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	4/19/2021 4:24:24PM

CONF56-0.5'

		E104055-21					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2116019
Benzene	ND	0.0250	1	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:	НТ		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	



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	4/19/2021 4:24:24PM

CONF57-0.5'

E104055-22								
		Reporting						
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Γ	Y		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: Γ	Y		Batch: 2116019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	ļ.	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: H	IT		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: R	AS		Batch: 2116024	
Chloride	84.9	20.0	1		04/14/21	04/15/21		



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	4/19/2021 4:24:24PM

CONF58-0.5'

		E104055-23					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		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:	НТ		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	



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	4/19/2021 4:24:24PM

CONF59-0.5'

E104055-24

		Reporting					
Analyte	Result	Limit	Di	lution	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	: НТ		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
	257	·			04/14/21	04/15/21	

RDX Federal 10-15 02.19.21 Spill WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 21022-0001 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 4/19/2021 4:24:24PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % Notes Prepared: 04/13/21 Analyzed: 04/13/21 Blank (2116015-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.480 0.500 96.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.483 0.500 96.6 70-130 0.500 96.9 70-130 Surrogate: Toluene-d8 0.485 Prepared: 04/13/21 Analyzed: 04/13/21 LCS (2116015-BS1) 2.27 0.0250 2.50 90.9 70-130 Benzene 2.50 94.7 70-130 2.37 Ethylbenzene 0.0250 2.32 0.0250 2.50 92.7 70-130 70-130 2.31 0.0250 2.50 92.5 o-Xylene 4.63 92.6 p,m-Xylene 0.0500 5.00 70-130 6.94 0.0250 7.50 92.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.508 0.500 102 70-130 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.510 0.500 Surrogate: Toluene-d8 0.515 Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21 Matrix Spike (2116015-MS1) 48-131 2.44 0.0250 2.50 ND 45-135 2.61 0.0250 2.50 ND 105 Ethylbenzene 48-130 Toluene 2.74 0.0250 2.50 ND 110 2.64 0.0250 2.50 ND 105 43-135 o-Xylene ND 102 43-135 p,m-Xylene 5.11 0.0500 5.00 Total Xylenes 7.74 0.0250 7.50 ND 103 43-135 0.501 0.500 100 70-130 Surrogate: Bromofluorobenzene 0.500 97.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.490 0.500 70-130 0.534 Surrogate: Toluene-d8 Source: E104055-01 Prepared: 04/13/21 Analyzed: 04/13/21 Matrix Spike Dup (2116015-MSD1)



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.56

2.68

2.66

2.64

5.31

7.96

0.488

0.520

0.513

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

102

106

106

106

106

97.5

104

103

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

4.86

2.62

2.95

0.227

3.97

2.71

23

27

24

27

27

27

RDX Federal 10-15 02.19.21 Spill WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 21022-0001 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 4/19/2021 4:24:24PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % Notes Prepared: 04/14/21 Analyzed: 04/16/21 Blank (2116019-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.475 0.500 94.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.511 0.500 102 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.503 Prepared: 04/14/21 Analyzed: 04/16/21 LCS (2116019-BS1) 2.31 0.0250 2.50 92.5 70-130 Benzene 2.50 94.3 70-130 2.36 Ethylbenzene 0.0250 2.37 0.0250 2.50 94.6 70-130 2.34 93.4 70-130 0.0250 2.50 o-Xylene 92.7 p,m-Xylene 4.64 0.0500 5.00 70-130 6.97 0.0250 7.50 93.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.481 0.500 96.2 70-130 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.510 0.506 0.500 Surrogate: Toluene-d8 **Source: E104054-01** Prepared: 04/14/21 Analyzed: 04/16/21 Matrix Spike (2116019-MS1) 48-131 2.41 0.0250 2.50 ND 45-135 2.56 0.0250 2.50 ND 102 Ethylbenzene 48-130 99.3 Toluene 2.48 0.0250 2.50 ND 2.56 0.0250 2.50 ND 102 43-135 o-Xylene ND 102 43-135 p,m-Xylene 5.10 0.0500 5.00 Total Xylenes 7.66 0.0250 7.50 ND 102 43-135 0.521 0.500 104 70-130 Surrogate: Bromofluorobenzene 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 102 70-130 0.509 Surrogate: Toluene-d8 **Source: E104054-01** Prepared: 04/14/21 Analyzed: 04/16/21 Matrix Spike Dup (2116019-MSD1) 2.29 0.0250 2.50 ND 91.7 48-131 4.79 23 0.0250 2.50 ND 98.2 45-135 4.03 27 Ethylbenzene 95.5 48-130 3.90 24 2.39 2.50 ND Toluene 0.0250



2.47

4.87

7.34

0.514

0.500

0.503

0.0250

0.0500

0.0250

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

98.7

97.4

97.8

103

99.9

43-135

43-135

43-135

70-130

70-130

70-130

3.68

4.53

4.24

27

27

27

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

WPX Energy - CarlsbadProject Name:RDX Federal 10-15 02.19.21 SpillReported:5315 Buena Vista DrProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo4/19/2021 4:24:24PM

	Non	halogenated (Organics l	by EPA 801	1 5D - G l	RO			Analyst: RKS
alyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	4	a	a a		0.7	0./	0.7	0./	3.7

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116015-BLK1)						Pre	pared: 04/1	3/21 Analyze	ed: 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)						Pre	pared: 04/1	3/21 Analyze	ed: 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)				Sour	rce: E1040	055-01 Pre	pared: 04/1	3/21 Analyze	ed: 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)				Sour	rce: E1040	055-01 Pre	pared: 04/1	3/21 Analyze	ed: 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			



RDX Federal 10-15 02.19.21 Spill WPX Energy - Carlsbad Project Name: 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	v EPA 8015D	- GRO

Analyst: IY

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116019-BLK1)						Pre	pared: 04/1	4/21 Analy	zed: 04/16/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
LCS (2116019-BS2)						Pre	pared: 04/1	4/21 Analy	zed: 04/16/21
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Gurrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Gurrogate: Toluene-d8	0.507		0.500		101	70-130			
iurrogate: Toluene-d8 Matrix Spike (2116019-MS2)	0.507		0.500	Sou	101 rce: E1040		pared: 04/1	4/21 Analy	zed: 04/16/21
	60.7	20.0	50.0	Sou			pared: 04/1	4/21 Analy.	zed: 04/16/21
Matrix Spike (2116019-MS2)		20.0			rce: E1040	054-01 Pre	pared: 04/1	4/21 Analy	zed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10)	60.7	20.0	50.0		rce: E1040	70-130	pared: 04/1	4/21 Analy	zed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Gurrogate: Bromofluorobenzene	60.7 0.497	20.0	50.0 0.500		121 99.4	70-130 70-130	pared: 04/1	4/21 Analy	zed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Gurrogate: Bromofluorobenzene Gurrogate: 1,2-Dichloroethane-d4	60.7 0.497 0.511	20.0	50.0 0.500 0.500	ND	121 99.4 102	70-130 70-130 70-130 70-130	•		zed: 04/16/21 zed: 04/16/21
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Gurrogate: Bromofluorobenzene Gurrogate: 1,2-Dichloroethane-d4 Gurrogate: Toluene-d8	60.7 0.497 0.511	20.0	50.0 0.500 0.500	ND	121 99.4 102 99.8	70-130 70-130 70-130 70-130	•		
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Garrogate: Bromofluorobenzene Gurrogate: 1,2-Dichloroethane-d4 Gurrogate: Toluene-d8 Matrix Spike Dup (2116019-MSD2)	60.7 0.497 0.511 0.499		50.0 0.500 0.500 0.500	ND Sou	121 99.4 102 99.8 rce: E1040	70-130 70-130 70-130 70-130 70-130 70-130 Pre	pared: 04/1	4/21 Analy	
Matrix Spike (2116019-MS2) Gasoline Range Organics (C6-C10) Gurrogate: Bromofluorobenzene Gurrogate: 1,2-Dichloroethane-d4 Gurrogate: Toluene-d8 Matrix Spike Dup (2116019-MSD2) Gasoline Range Organics (C6-C10)	60.7 0.497 0.511 0.499		50.0 0.500 0.500 0.500	ND Sou	121 99.4 102 99.8 rce: E1040	70-130 70-130 70-130 70-130 70-130 954-01 Pre	pared: 04/1	4/21 Analy	



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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioven	go			4/	19/2021 4:24:24PM
	Nonha	logenated Or	ganics by	EPA 8015	D - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116018-BLK1)						Pre	pared: 04/	13/21 Analyz	zed: 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)						Pre	pared: 04/	13/21 Analyz	zed: 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)				Sou	ırce: E104	053-03 Pre	pared: 04/	13/21 Analyz	zed: 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)				Sou	ırce: E104	053-03 Pre	pared: 04/	13/21 Analyz	zed: 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			

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			4/1	9/2021 4:24:24PM
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2116034-BLK1)						Pre	pared: 04/	15/21 Analyz	ed: 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)						Pre	pared: 04/	15/21 Analyz	ed: 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)				Sou	rce: E104	054-01 Pre	pared: 04/	15/21 Analyz	ed: 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)				Sou	rce: E104	054-01 Pre	pared: 04/	15/21 Analyz	ed: 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			

Chloride

QC Summary Data

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

Carlsbad NM, 88220		Project Manager:	A	shley Giovengo				4/	19/2021 4:24:24PM
		Anions	by EPA 3	300.0/9056A					Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	s RPD	RPD Limit %	Notes
Blank (2116022-BLK1)							Prepared: 04/	14/21 Analy2	zed: 04/15/21
Chloride	ND	20.0							
LCS (2116022-BS1)							Prepared: 04/	14/21 Analyz	zed: 04/15/21
Chloride	240	20.0	250		96.1	90-110	ı		
Matrix Spike (2116022-MS1)				Source	e: E1040	055-01	Prepared: 04/	14/21 Analyz	zed: 04/16/21
Chloride	517	20.0	250	200	127	80-120			M1
Matrix Spike Dup (2116022-MSD1)				Source	e: E1040	055-01	Prepared: 04/	14/21 Analyz	zed: 04/16/21

250

200

107

80-120

10.2

20.0



Chloride

Matrix Spike Dup (2116024-MSD1)

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manage	:: 2	RDX Federal 10 1022-0001 Ashley Giovens		9.21 Spill		4	Reported: /19/2021 4:24:24PM
		Anions	s by EPA	300.0/9056 <i>A</i>	4				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
Blank (2116024-BLK1)						Pre	pared: 04/	14/21 Analy	vzed: 04/14/21
Chloride	ND	20.0							
LCS (2116024-BS1)						Pre	pared: 04/	14/21 Analy	zed: 04/14/21
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2116024-MS1)				Sou	rce: E104	053-01 Pre	pared: 04/	14/21 Analy	vzed: 04/14/21
Chloride	306	20.0	250	60.6	98.0	80-120			

250

20.0

320

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.



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

4.47

20

80-120

104

60.6

Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	RDX Federal 10-15 02.19.21 Spill	
١	5315 Buena Vista Dr	Project Number:	21022-0001	Reported:
١	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.



Project Information		Chain of Custod	ly										Page _	of
Eight: Wex Energy Permiss, 116 Boject: LDY Federal 10-15 07.19.21 Roject Manager: Ashey Giovengo Spill Ridress: 1224 Standpine 48 Bity, State, Zip Carlsbad, Nm 88220	Bill To				Li	ab Us	e On	ly	T		TA	Т		ogram
Poject Manager: Aclass Grand 10-15 07.19. 21	Attention: Nescom In			WO#			1 dp	Number	1D	2D	3D [Standard	CWA	SDWA
Address: 12-24 51 - 4 6 0 6 0 8	Address: 122 4 Shande	2000	<u> </u>	6405	5		-	22-0601	_					(I)
sty, State, Zip Carlshad Am Serzo	Phone: (5.5) 382-,2	Nm 8872	2	1		1	Analy	sis and Metho	<u>d</u>					RCRA
mone: (5.5) 382-1211	Empile ash have a sale	1	i											
mail: ashley, glovengon wescom	Email: ashley: giov	ensow_	55	8035		1						and co.	State	
Report due by: inc. com	CSCONTINE . CB	173	r Aq C	by 8	1200	260	110	300.0	ΣN	<u>×</u>		NM CO	UI AZ	TX
Time Date Matrix No. of Containers Sample 1D		Lab Number	рко/ако 6у 8015	GRO/DRO by	9TEX by 8021	VOCby B260	Metals 6010	Chloride	BGDOC	FDGE T			Remarks	
e em		Ivalibei		ψ	im	>	≥	<u> </u>	<u> </u>	8	-		_	
2:38 00/109/21 5 1:ar CONF12-	2.6'			,					X					
2:51 04/09/2 5 1:AT CONFID.		2							X					
02:42 64 08/2 5 1; ar CONF32-		12							X					T
01:2800 4/01/21 5 1jar CONF39-		4							X	-,7				
03:56 04/09/21 5 1; AT CONF40-		5							X					
03:23 04/09/21 5 1jar CONF42-		6							X				-11	
61:24 (04 09 121 5 1 jar CONF43 -		7							X	i				
51:46 1 04 09 12 1 5 1 jar CONF44.		8			_				X					
		9		_										
11:54 a oulmizes 1jar CONF45	- 2	1		_					^					
Additional Instructions: Preserved on ic PO # 23881	3'	10				26			X					
PO# 2388\	+, please cc sice	cr. regerros	LE	. ~	· ·	درع ه	ر هي	ייייין פ		m				
l de la companya de l		fly mislabelling the samp	le loca	itlon,			Sample	es requiring thermal	preservat	lon mu	st be rec	elved on ice the day t	hey are sample	d or received
date or time of collection is considered fraud and may be grounds for legal							packed	in ice at an avg tem	p above () but la	ss than 6	C on subsequent de	rs.	
Relinquished by: (Signature) Date Time 04/12/7/02:0 Relinquished by: (Signature) Date Time	Received by: (Signature)	Date 4.12.	21	Time	40	1	Rece	eived on ice:		b U	se Onl	ly		
Relinquisites by: (Signoture) Date Time 4-12-21 193	7 -77 -170-101-101-101	Date 4-13- 6		Time	15	,	T1	•	TO					
Retino(Ished by: (Signature) Date Time	Received by: (Signature)	Date	-	Time				Tomp oc	<u></u> .		_			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported uni-	ess other arrangements are made.	Hazardous samples wil	l he r	ehirne	ed to	dent o	ar disc	onsed of at the c	lient e	nene	e The	report for the a	nalysis of +1	ne abovo
samples is applicable only to those samples received by the laborate	tory with this COC. The liability of the	laboratory is limited	to the	amou	ınt pa	id for	on the	e report.		-peri3	- 1110	- sport to the d	narysis Of U	12 900AG

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envirotech 29 162 of 183

Project Information Chair	of Custoo	dy											Page_	<u> </u>
Right: Lift Energy Rermian, LLC Broject: LDy Fectival 10-15 02-19. 21 Attention: Lescam Inc Address: 1224 Stander 22 0 City, State, Zip Carlobad, Nm Phone: (505) 382-1211				Lā	ab Us	se Onl	У				TA	T		rogram
Project: LDV Fectival 10-15 02.19.21 Attention: Wescam Inc	_	Lab	WO#				lumber		1D	2D	3D	Standard	CWA	SDWA
Address: 1224 Stander 20 Rddress: 1224 Stander 20 Rddress: 1274 Stander	4	Ele	1405	5		31092	1-0001					X		
City, State, Zin Carlebal Nr	<u> </u>					Analys	is and M	lethod						RCRA
Phone: (505) 382-1211 Phone: (505) 382-1211 Phone: (505) 382-1211						ΙT	-							
IFMAIL A Chiasta Anna Chiasta A		8015	8015			1							State	
Report due by: inc. com) % 26	1y 80	77			0.0		2			NM CO	UT AZ	TX
A Time Date	1	i ĝ	151	- 83	, 826	601	e 30		NN	ř		I X		
Sampled Sampled Matrix Containers Sample ID	Lab Number	DRG/ORO by	GRO/DRO by	9TEX by 8021	VOC by 8260	Metals 6010	Chlaride 300.0		верос	BGDGC			Remarks	
:03 (04 log k) S 1; Er CONF47-3.5'	H								X					
=:4109/2 5 1jar CONF 48- 2.5"	12								X					
15:13pm 04/01/21 5 1jar CONF 49 - 3.5'	13								X				11.	
14:50 ("04/01/2) 5 1jar CONF 52 - Wall	(e)								X					
06:17 04/19/2 5 1jar CONF 53- Wall	15								X					
17:09 04/09/21 5 1-cr (ONF 54 - Wall	16								X					
03:52 9419/21 5 1jar CONF 50 - 3'	n								X					
3:54 04/09/20 S 1: LV CONF 51-31	146								X					
06:37 pm 04/09/2 5 1;ar 5547-0'	19								X					
9751 an 04/11/21 5 1395 CONF 55 - 0.5'	30								X					
Additional Instructions: Preserved on ice, please cc shar.	harve	st	er	2	w	esca	min	<u>د ک</u> د	ĊO.	~~				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabe date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	elling the samp	ole loca	ation,									elved on ice the day to		ed or received
Relinquished by: (Signature) Date . Time Received by: (Signature)	Date		Time					J					,	
04/12/21 02:01 em 5 8		21	1	10	,	De					e On	ıy		
Relinquished by: (Signature) Rective by: (Signature) Rective by: (Signature)	Date	C1	Time	40		Kece	ived on	ice:	Y	<i>N</i>				
7.12.21 1930 Messe	4./30	Ж		g:2	i i	27.7			T-1			To		
Relincuished by: (Signature) Date Time Received by: (Signature)	Date		Time			<u>T1</u>		_	14_			<u>T3</u>		
						AVIC	Temp °(_ 4						
Sample Matrix: 5 - Soil, Sd - Solld, Sg - Sludge, A - Aqueous, O - Other	Container	ontainer 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. Hazardou	pardous samples will be returned to client or disposed of at the client expense. The report for the applying the above													
samples is applicable only to those samples received by the laboratory with this COC. The liability of the laborator	ry is limited	to the	amou	int pa	id for	on the	report.	UII	-1116	-p=(13)	-, +116	report for the a	naryara or ti	IIC ODOVE

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oject Information					Chain of	Custod	У											Page_	3 of
oject: RDY oject Manager: A	Tersy Feder Ashler	ral 10:	15 02.19.21 lengo spill	Attention: West om \ Address: \224 Stand	0:00 0	d	FIC	WO#	_		Job 216	Numb	100		2D	3D	Standard	EPA P	sDWA
ty, State, Zip (and points) 3 mail: a shley control of the by:	7 Y L \	C 11		Phone: (505) 382-12 Email: ashles giover	A'I	* <i>120</i>	DRO/ORO by 8015	GRO/DRO by 8015	1021		Analy 0109	300.0	Metho	d №N	Ľ		NM CO	State UT AZ	TX
Time Date ampled Sampled	Matrix	No. of Containers	Sample (D		N	Lab Lab	DRO/OR(GRO/DRC	BTEX by 8021	VOC by 8260	Metals 60	Chiaride		BG90C	BGDOC 1			Remarks	
: Sam oylala	5	Tiar	CONFSG -	0.5		21								X					
:57am 04/17/21	_ک_	liar	CONF 57 -	0.5'		27								X					
:28 04/12/2		ljar	CONFSE	-0.5'		23								X					
1:41am 04/12/21		1jer	CONF59 -	0.5'		24								X	<u> </u>				
À																			İ
ditional Instruc	tions: 7	reserv	red on ice	, please ccsh	ar. hav	v 2.5	te	y	3 ,	ي در	Co	m i	nc.	60	m				÷
of time of collection	iş considere	y and authented fraud and o	cidty of this sample. I am	aware that tampering with or Intention action. Sampled by:	elly mistabelling	the sampl	le loca	tion,									eived on Ice the day		ed or receiv
inguished by: (Sign:	4	Date	12/2/02:0	Received by: (Signature)	Da Da	1-12-2	21	Time			Rec	eived	on ice:		ab U	se On			
Impuished by: {Sign:		Date	Time	Received by: (Signature)	Da	te		Time	2875		_	Temp		T2 4			<u>T3</u>		
mple Matrix: 5 - Soil, So ote: Samples are disc	arded 30 c	days after re	sults are reported uni	ess other arrangements are made.	Hazardous san	ntainer nples will	l he re	turne	ed to c	lient o	or dist	nosed o	f at the c	er gla lient e	ss, v xpens	VOA	report for the a	nalysis of t	he above
npies is applicable o	only to tho:	se samples	received by the labora	ory with this COC. The liability of th	e laboratory is	limited t	o the	amou	ınt pa	id for	on th	е герог	t.						

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envirotech espense. The report for the analysis of the above

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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 (9:58		Logged In By:	Jessica Liesse	
Email:	ashley.giovengo@wesominc.com	Due Date:	04/19/21	17:00 (4 day TAT)		20 3		
Chain of	Custody (COC)							
1. Does th	e sample ID match the COC?		Yes					
	e number of samples per sampling site location mat	ch the COC	Yes					
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: L	ab Carrier			
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>25</u>	ado carrier			
	l samples received within holding time?	,	Yes					
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			_		Commen	ts/Resolution	
	urn Around Time (TAT)					4		
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		cc snar.narv	ester@west	cominc.com	
Sample C								
	ample cooler received?		Yes					
8. If yes, v	was cooler received in good condition?		Yes					
9. Was the	e 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	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are		Yes					
13. If no v	minutes of sampling risible ice, record the temperature. Actual sample	temperature: 4°	C					
Sample C		, <u>-</u>	_					
_	queous VOC samples present?		No					
	OC samples collected in VOA Vials?		NA					
	head space less than 6-8 mm (pea sized or less)?		NA					
	trip blank (TB) included for VOC analyses?		NA					
	- , , ,)						
	on-VOC samples collected in the correct containers		Yes					
	appropriate volume/weight or number of sample contain	iers collected?	Yes					
Field Lab		.•						
	field sample labels filled out with the minimum info ample ID?	rmation:	Yes					
	ate/Time Collected?		No	L				
	ollectors name?		Yes					
Sample P	reservation_		100					
	the COC or field labels indicate the samples were pr	eserved?	No					
	mple(s) correctly preserved?		NA					
	filteration required and/or requested for dissolved m	netals?	No					
Multinha	se Sample Matrix							
	the sample have more than one phase, i.e., multiphate	se?	No					
	does the COC specify which phase(s) is to be analy							
		zeu:	NA					
	act Laboratory							
	imples required to get sent to a subcontract laborator	-	No					
29. Was a	subcontract laboratory specified by the client and it	so who?	NA	Subcontract Lab	o: NA			
Client In	struction							
							0	
Signati	are of client authorizing changes to the COC or sample dis	position.			Date			envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF06-1.5'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

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

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



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	5/4/2021 4:28:22PM

CONF06-1.5'

E104128-01							
		Reporting					
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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		
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	05/03/21	05/03/21		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2119001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/21	05/03/21		
Surrogate: 1-Chloro-4-fluorobenzene-FID		123 %	70-130	05/03/21	05/03/21		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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		
Surrogate: n-Nonane		89.6 %	50-200	05/03/21	05/03/21		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2119005	
Chloride	57.6	20.0	1	05/03/21	05/03/21		



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Matrix Spike Dup (2119001-MSD1)

7.68

4.50

4.41

4 59

4.50

8.92

13.4

7.59

QC Summary Data

RDX Federal 10-15 WPX Energy - Carlsbad Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Prepared: 05/03/21 Analyzed: 05/03/21 Blank (2119001-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.77 8.00 97.2 70-130 Prepared: 05/03/21 Analyzed: 05/03/21 LCS (2119001-BS1) 4.85 5.00 97.1 70-130 Benzene 0.0250 Ethylbenzene 4.75 0.0250 5.00 95.0 70-130 4.87 0.0250 5.00 97.3 70-130 Toluene o-Xylene 4.84 0.0250 5.00 96.9 70-130 9.61 10.0 96.1 70-130 0.0500 p.m-Xvlene 96.3 70-130 14.4 15.0 Total Xylenes 0.0250 8.00 97.6 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.81 **Source: E104128-01** Prepared: 05/03/21 Analyzed: 05/03/21 Matrix Spike (2119001-MS1) 4.64 0.0250 5.00 ND 92.8 54-133 Benzene 91.3 61-133 Ethylbenzene 4.56 0.0250 5.00 ND Toluene 4.71 0.0250 5.00 ND 94.2 61-130 ND 93.1 63-131 4.66 5.00 0.0250 o-Xylene p,m-Xylene 9.21 0.0500 10.0 ND 92.1 63-131 13.9 0.0250 15.0 ND 63-131 Total Xylenes

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

ND

90.1

88.3

91.8

89.9

89.2

89.4

94.9

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

70-130

54-133

61-133

61-130

63-131

63-131

63-131

70-130

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

2.96

3.33

2 54

3.50

3.30

3.37

20

20

20

20

20

20

Surrogate: 1-Chloro-4-fluorobenzene-FID

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			5/	4/2021 4:28:22PM
	Non	halogenated	Organics l	by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2119001-BLK1)						Pre	pared: 05/0	03/21 Analyz	red: 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)						Pre	pared: 05/0	03/21 Analyz	red: 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)				Sour	rce: E104	128-01 Pre	pared: 05/0	03/21 Analyz	zed: 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)				Sour	rce: E104	128-01 Pre	pared: 05/0	03/21 Analyz	zed: 05/03/21
Gasoline Range Organics (C6-C10)	56.7	20.0	50.0	ND	113	70-130	0.0307	20	

8.00

9.86

123

70-130

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

Carlsbad NM, 88220		Project Manager	r: As	shley Gioveng	go				/4/2021 4:28:22PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2119009-BLK1)						Pre	pared: 05/0	03/21 Analy	zed: 05/03/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
LCS (2119009-BS1)						Pre	pared: 05/0	03/21 Analy	zed: 05/03/21
Diesel Range Organics (C10-C28)	453	25.0	500		90.5	38-132			
urrogate: n-Nonane	39.9		50.0		79.7	50-200			
Matrix Spike (2119009-MS1)				Sou	rce: E104	128-01 Pre	pared: 05/0	03/21 Analy	zed: 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)				Sou	rce: E104	128-01 Pre	pared: 05/0	03/21 Analy	zed: 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			

WPX Energy - Carlsbad		Project Name:		DX Federal 10	0-15				Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		4108-0639 Ishley Gioveng	go				5/4/2021 4:28:22PM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2119005-BLK1)						Pre	epared: 05/0	03/21 Ana	alyzed: 05/03/21
Chloride	ND	20.0							
LCS (2119005-BS1)						Pre	epared: 05/0	03/21 Ana	alyzed: 05/03/21
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2119005-MS1)				Sou	rce: E104	128-01 Pre	epared: 05/0	03/21 Ana	alyzed: 05/03/21
Chloride	301	20.0	250	57.6	97.5	80-120			
Matrix Spike Dup (2119005-MSD1)				Sou	rce: E104	128-01 Pre	epared: 05/0	03/21 Ana	alyzed: 05/03/21
Chloride	305	20.0	250	57.6	99.1	80-120	1.34	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	
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.



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envirotech

Page

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

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envirotech Inc.

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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)						
	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: N	Natalie Nunez		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes			<u>Comment</u>	s/Resolution
Sample 7	Furn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (· •						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
			Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
		temperature. 4	<u>c</u>				
	Container		N				
	queous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	field sample labels filled out with the minimum info	rmation:	37				
	ample ID? Date/Time Collected?		Yes				
	Collectors name?		No Yes				
	Preservation		168				
	the COC or field labels indicate the samples were pro-	eserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
	•		110				
	ase Sample Matrix	9	3.7				
	the sample have more than one phase, i.e., multiphas		No				
27. II yes	, does the COC specify which phase(s) is to be analy	zeu?	NA				
Subconti	ract Laboratory						
28. Are s	amples required to get sent to a subcontract laborator	y ?	No				
29. Was a	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA		
Client I	nstruction_						

Date

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



(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	



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Liner Inspection Photos – RDX Federal 10-15



Photo 1. Site Signage



Photo 2. Entire containment



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



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

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

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

CONDITIONS

Created	Condition	Condition
Ву		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-	7/14/2021
	141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	1