

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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

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

MAR 25 2015
Submit to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAME NAB1508551010 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	RKI E&P, LLC <u>246289</u>	Contact	Taylor Jones
Address	210 Park Ave. - Ste. 900, OKC, OK 73102	Telephone No.	405-996-5782
Facility Name	RDX 16-5	Facility Type	Oil and Gas Well

Surface Owner State	Mineral Owner State	API No.	30-015-36685
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	16	26S	30E	2310	South Line	2310	East Line	Eddy

Latitude 32.0365700475077 Longitude -103.871324715359

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	30 Bbls	Volume Recovered	0 Bbls
Source of Release	Wellhead Stuffing Box Packing	Date and Hour of Occurrence	03/24/15 - prior to 1:15p MDT	Date and Hour of Discovery	03/24/15 - 1:15p MDT
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Heather Patterson (left VM on mobile)		
By Whom?	Zack Laird	Date and Hour	03/25/15 - 11:50a CDT		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

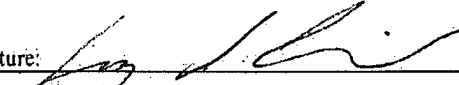

Oil/Produced water was released because wellhead stuffing box packing failed. Replaced packing, ensured well was greased properly and pumping unit aligned to help prevent packing failure.

Describe Area Affected and Cleanup Action Taken.*

The well site soil was affected, spill also ran off location and soil was affected in pasture around the well site. Affected well pad soil is being removed and disposed of.

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

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Zack Laird	Approval Date: <u>3/26/15</u>	Expiration Date: <u>N/A</u>
Title: Sr. EHS Manager	Conditions of Approval:	
E-mail Address: ZLaird@rkixp.com	Attached <input type="checkbox"/>	
Date: 03/25/15	Phone: 405-987-2213	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 4/26/15

* Attach Additional Sheets If Necessary

2RP-2917

Patterson, Heather, EMNRD

From: Zackary Laird <ZLaird@rkixp.com>
Sent: Wednesday, March 25, 2015 11:13 AM
To: Patterson, Heather, EMNRD
Cc: Hughes, Solomon; Taylor Jones
Subject: RKI E&P Spill Notification and C-141
Attachments: NM_RDX16-5_C141Signed(032515).pdf

Heather,

Attached please find completed OCD form C-141 for a spill at the RKI operated RDX 16-5 well in Eddy County, NM (API # 30-015-36685). Because the spill volume was greater than 25Bbls, I did try but was unable to contact you by phone (left VM on your mobile). Clean-up of the well pad has begun, but we would like to touch base with you prior to proceeding with clean-up off the pad.

Please call me at your convenience to discuss further.

Regards,

Zack Laird | Sr. EHS Manager
RKI Exploration & Production, LLC
210 Park Avenue, Suite 900 | Oklahoma City, OK 73102
405.987.2213 (o) | 405.742.2696 (m) | ZLaird@rkixp.com

This email is confidential. If you believe it has been sent to you in error, then do not read it, do notify the sender you have received it, and delete it. Email transmissions cannot be warranted to be secure or error-free as information could be intercepted, misdirected, corrupted, lost, incomplete, destroyed or containing viruses. The sender therefore cannot guarantee the integrity or security of this email or any file(s) included herewith. RKI and the sender hereby disclaim any and all liability for injury or damages that may result from the recipient(s) receipt or transmission of this email and any file(s) included herewith or reliance on the contents thereof. Any oilfield equipment, materials or services ordered by or provided to RKI or its affiliates in connection with this message shall be governed by RKI's Terms and Conditions of Purchase (a copy of which may be found at www.rkixp.com) and such Terms and Conditions of Purchase are hereby incorporated and expressly made a part hereof. A paper copy of RKI's Terms and Conditions of Purchase will be provided upon your written request.

Incident ID	nAB1508551060
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>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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


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

State of New Mexico
Oil Conservation Division

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Incident ID	nAB1508551060
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 5/16/2022
email: jim.raley@dvni.com Telephone: (575) 689-7597

OCD Only

Received by: _____ Date: _____

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Application ID	


Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


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

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 5/16/2022
email: jim.raley@dv.com Telephone: (575) 689-7597

OCD Only

Received by: OCD Date: 5/16/2022

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

Closure Approved by:  Date: 12/21/2022
Printed Name: Ashley Maxwell Title: Environmental Specialist



CLOSURE REQUEST REPORT

Site Location:

RDX 16-5
Eddy County, New Mexico
Incident Number: nAB1508551060

May 13, 2022
Ensolum Project No. 03A1987007

Prepared for:

WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220
Attention: Jim Raley

Prepared by:

Joseph S. Hernandez
Senior Geologist

Ashley Ager, M.S., PG
Program Director, Geologist

RDX 16-5
Incident Number: nAB1508551060
Closure Request Report
May 13, 2022



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Appendix F:	Laboratory Analytical Reports & Chain-of-Custody Documentation
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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document remediation corrective actions completed in accordance with New Mexico Oil and Conservation Division (NMOCD) guidelines and performed by WPX Permian Energy, LLC (WPX) at the RDX 16-5 (hereinafter referred to as the "Site") in Unit J, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (**Figure 1 in Appendix A**). Based on excavation and delineation activities and results of the soil sampling events, WPX is submitting this CRR, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAB1508551060.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.0365700° N, 103.8713247° W) and was associated with oil and gas exploration and production operations on State Land (**Figure 1 in Appendix A**). Well records indicate the Site was permanently plugged in 2018 and subsequently reclaimed.

On March 24, 2015, the wellhead stuffing box packing failed and resulted in the release of approximately 30 barrels (bbls) of crude oil and produced water on the caliche well pad and adjacent reclaimed pad area. No fluids were able to be recovered immediately. The release extent is depicted on **Figure 2 in Appendix A**. The former operator, RKI E&P, LLC, reported the release to the NMOCD on March 25, 2015 with a Corrective Action Form C-141 (Form C-141). WPX ultimately acquired the asset and assumed liability for remediation of the release. The release was assigned Incident Number nAB1508551060.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE for HRL Compliance Solutions on December 10, 2020, located approximately 0.15 miles southeast of the Site. The soil boring is labeled as RDX 16#025H on **Figure 1 in Appendix**. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,010 feet west to northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A**.

Based on the desktop review of nearby receptors and depth to groundwater determination at the Site, the following NMOCD Table 1 Closure Criteria were applied (**Figure 1 in Appendix A**):

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.

1.3 Project Objective

The primary objectives of Ensolum's scope of services were to document that remediation actions performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document those concentrations of constituents of concern (COCs) in soil remaining on-Site were less than the applicable reclamation requirements and/or Closure Criteria for the Site.

2.0 REMEDIATION ACTIONS

Ensolum conducted soil sampling activities at the Site to verify the presence or absence of soil impacts associated with the subject release and oversaw excavation efforts to remove impacted soil. Approximately 2,180 cubic yards of impacted soil were removed from the Site and disposed of under WPX approved manifests.

2.1 Excavation and Delineation Activities

Between March 21, 2022 through March 24, 2022, excavation activities were conducted by Ensolum to remove impacted soil associated with the subject release via heavy equipment. Excavation activities were directed by field screening soil surrounding the former wellhead and reclaimed area for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following removal of impacted soil, Ensolum collected composite soil samples from two excavation areas (denoted Excavation A and Excavation B) at a sampling frequency of 200 square feet from the sidewalls and floor of the excavation to confirm impacted soil above reclamation and/or Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 2 feet or 4 feet bgs. Composite soil samples FS01 through FS43 were collected from the floor of the excavation at depths ranging from 2 feet bgs to approximately 4 feet bgs.

The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The approximate extent of excavation and confirmation soil sample locations is provided on **Figure 2 Appendix A**. Photographic documentation of remediation activities is included in **Appendix C**.

On March 24, 2022, delineation activities were conducted by Ensolum to confirm the presence or absence of impacted soil in a *de minimus* impacted area between the two excavation areas. The delineation sample was collected in a pothole advanced with mechanical equipment (samples designated PH). Delineation activities were directed by field screening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from the delineation soil sample location (PH01): the sample with the highest observed field screening at 1 foot bgs and the greatest depth at 4 feet bgs. The location of the delineation soil sample is shown in **Figure 2 in Appendix A**. Field screening results and observations for the delineation soil sample were recorded on a lithologic/soil sampling log (**Appendix D**). The soil samples were handled, collected and analyzed as previously described.

2.2 Waste Handling

At the completion of remediation action activities, approximately 2,180 cubic yards of impacted soil were excavated and transported for disposal to a R360 Environmental Solutions, LLC Facility in accordance with state and federal regulations.

3.0 SOIL SAMPLING RESULTS

Final laboratory analytical results for confirmation soil samples were below the reclamation standard requirement and/or Closure Criteria for the Site. Laboratory analytical data from the delineation sample indicates COCs from *de minimis* impacted soil within the subject release extent and excavation areas were below the Closure Criteria for the Site. Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**. **Appendix G** provides correspondence email notification receipts associated with the release.

4.0 FINDINGS AND CONCLUSIONS

Based on the results documented in this CRR, the following findings and conclusions regarding the Site are presented:

- Based on laboratory analytical results associated with final confirmation excavation and delineation soil samples, concentrations of COCs greater than the NMOCD applicable reclamation standard to the top 4 feet and/or Closure Criteria were not identified in soil remaining on-Site; and



RDX 16-5

Incident Number: nAB1508551060

Closure Request Report

May 13, 2022

- Approximately 2,180 cubic yards of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations.

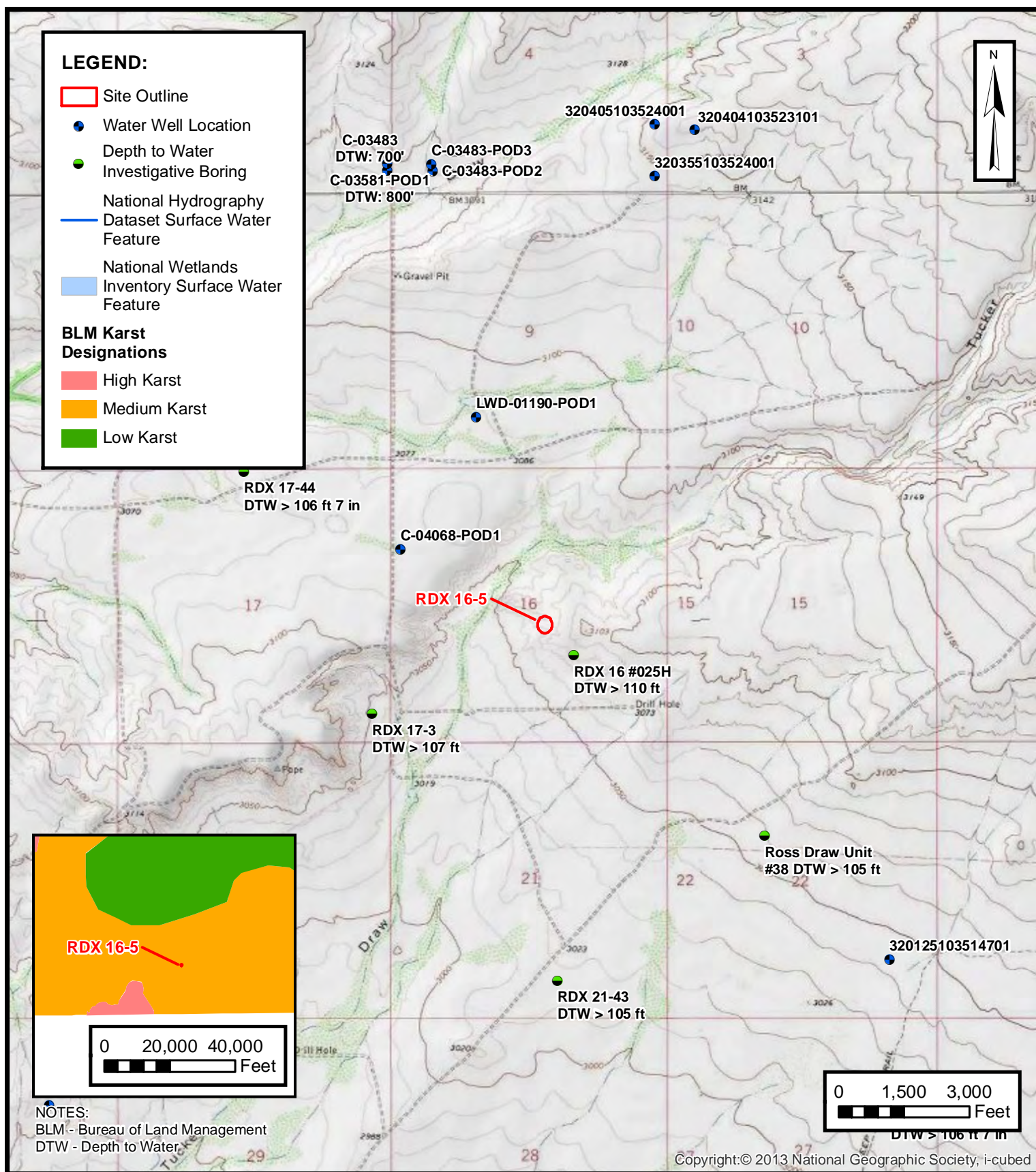
Subsequent to the completion of excavation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean, imported soil and restored to "as close to its original state" as possible.

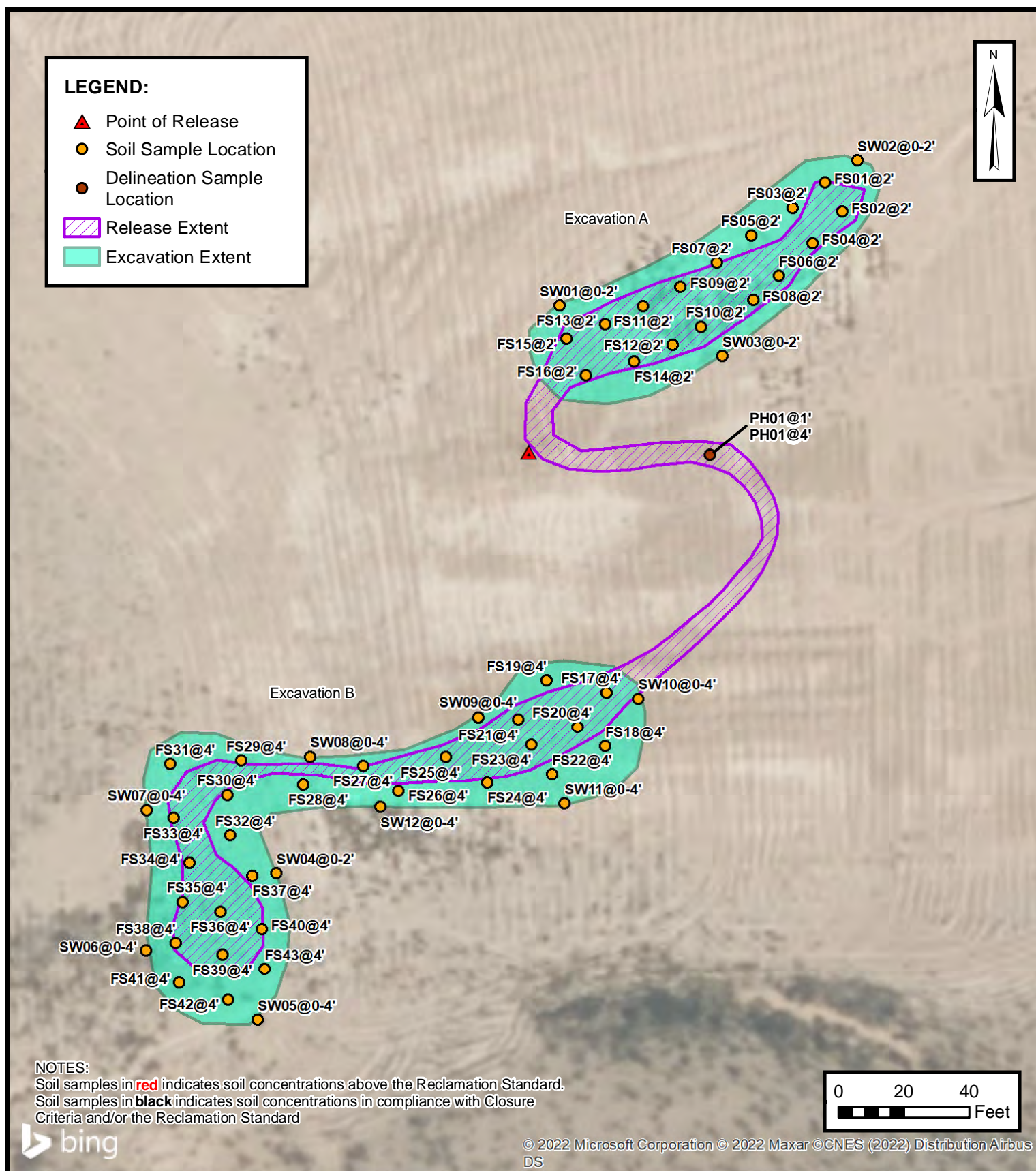
Based on the findings and conclusions of this report NFA appears warranted at this time and the Site should be respectfully considered for closure by the NMOCD.



APPENDIX A

Figures








APPENDIX B

Referenced Well Log

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



APPENDIX C

Photographic Documentation

**Photographic Log**

WPX Energy Permian, LLC.

RDX 16-5

Incident Number: nAB1508551060

Ensolum Job Number: 03A1987007

**Photograph 1***Date: February 21, 2022**Description: Initial start of Excavation area "A" activities***Photograph 2***Date: February 21, 2022**Description: Excavation area "A" activities***Photograph 3***Date: February 22, 2022**Description: Excavation area "A"***Photograph 4***Date: February 22, 2022**Description: Excavation area "A" activities*

**Photographic Log**

WPX Energy Permian, LLC.

RDX 16-5

Incident Number: nAB1508551060

Ensolum Job Number: 03A1987007

**Photograph 5***Date: February 24, 2022**Description: Initial start of Excavation area "B" activities***Photograph 6***Date: February 24, 2022**Description: Excavation area "B" activities***Photograph 7***Date: February 24, 2022**Description: Excavation area "B" activities***Photograph 8***Date: February 24, 2022**Description: Excavation area "B" activities*

**Photographic Log**

WPX Energy Permian, LLC.

RDX 16-5

Incident Number: nAB1508551060

Ensolum Job Number: 03A1987007

**Photograph 9**

Date: February 24, 2022

Description: Excavation area "B"

**Photograph 10**

Date: February 24, 2022

Description: Excavation area "B"

**Photograph 11**

Date: February 24, 2022

Description: Excavation area "B"

**Photograph 12**


Date: February 24, 2022

Description: Excavation area "B"



APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 3-24-2022					
								Site Name: RDX 16-5							
								Incident Number: nAB1508551060							
								Job Number: 03A1987007							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: AB		Method: Trackhoe					
Coordinates: 32.041597, -103.884885								Hole Diameter: N/A		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0	SW-SM	0-4', SAND, dry, brown, well graded with silt and sub-angular gravel, no plasticity, no cohesiveness, no stain, no odor.							
D	380	0.1	N	PH01	1	1									
D	300	0.0	N		2	2									
D	300	0.1	N		3	3									
D	232	0.2	N	PH01	4	4	TD	Total depth at 4' bgs.							



APPENDIX E

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC. - RDX 16-5
 Eddy County, New Mexico

Ensolum Project No. 03A1987007

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Sample Analytical Results										
FS01	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	116
FS02	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	205
FS03	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	192
FS04	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	241
FS05	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	61.3
FS06	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	46.2
FS07	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	45.8
FS08	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	45.2
FS09	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	33.1
FS10	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	39.2
FS11	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	61.8
FS12	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	40.4
FS13	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	45.1
FS14	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	62.1
FS15	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	143
FS16	03/24/2022	2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	41.4
FS17	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,020
FS18	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	985
FS19	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,050
FS20	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	729
FS21	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,290
FS22	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	771
FS23	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,370
FS24	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,390
FS25	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,330
FS26	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,110
FS27	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	703
FS28	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,690



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC. - RDX 16-5
 Eddy County, New Mexico

Ensolum Project No. 03A1987007

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS29	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	393
FS30	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	367
FS31	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,770
FS32	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,440
FS33	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,950
FS34	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	3,150
FS35	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	418
FS36	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,800
FS37	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	1,670
FS38	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	366
FS39	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,420
FS40	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	5,080
FS41	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	991
FS42	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,120
FS43	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	2,420
SW01	03/24/2022	0 - 2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	145
SW02	03/24/2022	0 - 2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	362
SW03	03/24/2022	0 - 2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	352
SW04	03/24/2022	0 - 2	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	106
SW05	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	130
SW06	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	239
SW07	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	121
SW08	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	131
SW09	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	297
SW10	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	167
SW11	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	167
SW09	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	297
SW10	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	167
SW11	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	167



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC. - RDX 16-5
 Eddy County, New Mexico

Ensolum Project No. 03A1987007

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW12	03/24/2022	0 - 4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	134
Delineation Soil Sample Analytical Results										
PH01	03/24/2022	1	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	415
PH01	03/24/2022	4	< 0.0250	< 0.0250	< 20.0	< 25.0	< 50.0	< 25.0	< 50.0	184

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria for Soils Impacted by a Release

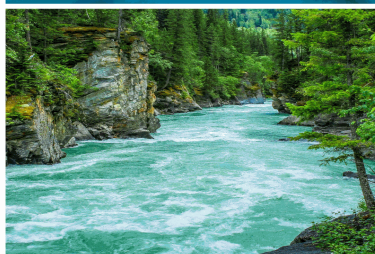


APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Joseph Hernandez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 16-5

Work Order: E203169

Job Number: 01058-0007

Received: 3/28/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/6/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/6/22



Joseph Hernandez
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX 16-5
Workorder: E203169
Date Received: 3/28/2022 8:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2022 8:15:00AM, under the Project Name: RDX 16-5.

The analytical test results summarized in this report with the Project Name: RDX 16-5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01	E203169-01A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS02	E203169-02A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS03	E203169-03A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS04	E203169-04A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS05	E203169-05A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS06	E203169-06A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS07	E203169-07A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS08	E203169-08A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS09	E203169-09A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS10	E203169-10A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS11	E203169-11A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS12	E203169-12A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS13	E203169-13A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS14	E203169-14A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS15	E203169-15A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS16	E203169-16A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
FS17	E203169-17A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS18	E203169-18A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS19	E203169-19A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS20	E203169-20A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 16-5 Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 4/6/2022 5:28:15PM
-------------------------------------------------------------------	-------------------------------------------------------------------------------------------	---------------------------------

FS01

E203169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
Surrogate: n-Nonane	103 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	116	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS02

E203169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>93.5 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.6 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>	<i>103 %</i>	<i>50-200</i>		<i>03/31/22</i>	<i>04/04/22</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	205	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS03

E203169-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	192	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS04

E203169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214073
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214053
Chloride	241	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS05

E203169-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.5 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>	109 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	61.3	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS06

E203169-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214073
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214053
Chloride	46.2	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS07

E203169-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	45.8	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS08

E203169-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	45.2	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS09

E203169-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.8 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>	131 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	33.1	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS10

E203169-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		03/31/22	04/04/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	39.2	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS11

E203169-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>98.6 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>91.8 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/04/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/04/22	
<i>Surrogate: n-Nonane</i>	<i>112 %</i>	<i>50-200</i>		<i>03/31/22</i>	<i>04/04/22</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	61.8	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS12

E203169-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>99.0 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>92.5 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>	<i>111 %</i>	<i>50-200</i>		<i>03/31/22</i>	<i>04/05/22</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	40.4	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS13

E203169-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	45.1	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS14

E203169-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214073
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214053
Chloride	62.1	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS15

E203169-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	143	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS16

E203169-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	41.4	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS17

E203169-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.7 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>	110 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	1020	20.0	1	03/31/22	04/01/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS18

E203169-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.9 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>	85.0 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	985	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS19

E203169-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214041
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		03/30/22	04/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214073
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214053
Chloride	1050	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:28:15PM

FS20

E203169-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Benzene	ND	0.0250	1	03/30/22	04/05/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/05/22	
Toluene	ND	0.0250	1	03/30/22	04/05/22	
o-Xylene	ND	0.0250	1	03/30/22	04/05/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/05/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/05/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.9 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/05/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>91.8 %</i>	<i>70-130</i>		<i>03/30/22</i>	<i>04/05/22</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214073	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>	<i>123 %</i>	<i>50-200</i>		<i>03/31/22</i>	<i>04/05/22</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214053	
Chloride	729	20.0	1	03/31/22	04/02/22	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:28:15PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214041-BLK1)

Prepared: 03/30/22 Analyzed: 04/05/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

LCS (2214041-BS1)

Prepared: 03/30/22 Analyzed: 04/05/22

Benzene	4.87	0.0250	5.00		97.3	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.25	0.0250	5.00		105	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.7	70-130			

Matrix Spike (2214041-MS1)

Source: E203169-04

Prepared: 03/30/22 Analyzed: 04/05/22

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133			
Toluene	5.57	0.0250	5.00	ND	111	61-130			
o-Xylene	5.23	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2214041-MSD1)

Source: E203169-04

Prepared: 03/30/22 Analyzed: 04/05/22

Benzene	5.07	0.0250	5.00	ND	101	54-133	1.82	20	
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133	1.57	20	
Toluene	5.47	0.0250	5.00	ND	109	61-130	1.83	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	1.31	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	1.63	20	
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131	1.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:28:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214041-BLK1)

Prepared: 03/30/22 Analyzed: 04/05/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

LCS (2214041-BS2)

Prepared: 03/30/22 Analyzed: 04/05/22

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike (2214041-MS2)

Source: E203169-04

Prepared: 03/30/22 Analyzed: 04/05/22

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2214041-MSD2)

Source: E203169-04

Prepared: 03/30/22 Analyzed: 04/05/22

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130	3.91	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:28:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214073-BLK1)

Prepared: 03/31/22 Analyzed: 04/04/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.9		50.0		99.9	50-200			

LCS (2214073-BS1)

Prepared: 03/31/22 Analyzed: 04/04/22

Diesel Range Organics (C10-C28)	393	25.0	500		78.7	38-132			
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

Matrix Spike (2214073-MS1)

Source: E203169-17

Prepared: 03/31/22 Analyzed: 04/04/22

Diesel Range Organics (C10-C28)	409	25.0	500	ND	81.9	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2214073-MSD1)

Source: E203169-17

Prepared: 03/31/22 Analyzed: 04/04/22

Diesel Range Organics (C10-C28)	406	25.0	500	ND	81.2	38-132	0.818	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:28:15PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214053-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Chloride ND 20.0

LCS (2214053-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Chloride 249 20.0 250 99.7 90-110

Matrix Spike (2214053-MS1)

Source: E203169-01

Prepared: 03/31/22 Analyzed: 04/01/22

Chloride 419 20.0 250 116 121 80-120 M2

Matrix Spike Dup (2214053-MSD1)

Source: E203169-01

Prepared: 03/31/22 Analyzed: 04/01/22

Chloride 383 20.0 250 116 107 80-120 8.74 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 16-5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:28

- M2 Matrix spike recovery was outside quality control 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 Custody

Page 1 of 6

Client: <u>Devon Energy</u> Project: <u>RDX 16-5</u> Project Manager: <u>Joseph Hernandez</u> Address: _____ City, State, Zip: _____ Phone: <u>(281) 782-2329</u> Email: <u>jhernandez@ensdum.com</u> Report due by: <u>3/31/22</u>					Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(575) 689-7597</u> Email: <u>jim.raley@dmv.com</u>					Lab Use Only Lab WO# <u>E203169</u> Job Number <u>01058-0007</u> Analysis and Method DRO/RO by 8015 <input checked="" type="checkbox"/> GRO/DRO by 8015 <input checked="" type="checkbox"/> BTEX by 8021 <input checked="" type="checkbox"/> VOC by 8260 <input checked="" type="checkbox"/> Metals 6010 <input checked="" type="checkbox"/> Chloride 300.0 <input checked="" type="checkbox"/>					TAT 1D <input checked="" type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>				EPA Program CWA <input checked="" type="checkbox"/> SDWA <input checked="" type="checkbox"/> RCRA <input checked="" type="checkbox"/>	
										State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>										
										Remarks 2' bgs Incident ID NABIS/B55166 Cost Center 1061084401 PN 03A987007										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0									
0840	3/24/22	S	1	FS01	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0845				FS02	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0850				FS03	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0855				FS04	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0900				FS05	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0905				FS06	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0910				FS07	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0915				FS08	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0920				FS09	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
0925				FS10	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature) <u>Anna Byers</u> Date <u>3/25/22</u> Time <u>10:25</u>												Received by: (Signature) <u>Jim Raley</u> Date <u>3/25/22</u> Time <u>10:25</u>								
Relinquished by: (Signature) <u>Anna Byers</u> Date <u>3/25/22</u> Time <u>1600</u>												Received by: (Signature) <u>Carla Chute</u> Date <u>3/28/22</u> Time <u>8:15</u>								
Relinquished by: (Signature) _____ Date _____ Time _____												Received by: (Signature) _____ Date _____ Time _____								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Project Information

Chain of Custody

Page 2 of 6

Client: <u>Devon Energy</u> Project: <u>RDX 16-S</u> Project Manager: <u>Joseph Hernandez</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Report due by: <u>3/31/22</u>					Bill To Attention: <u>Jim Raley</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>E203169</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____					TAT 1D _____ 2D _____ 3D _____ Standard <u>X</u>				EPA Program CWA _____ SDWA _____ RCRA _____ State NM <u>X</u> CO _____ UT _____ AZ _____ TX _____	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	2D	3D	Standard	Remarks				
<u>0930</u>	<u>3/24/22</u>	<u>S</u>	<u>1</u>	<u>FS11</u>	<u>11</u>						<u>X</u>					<u>2' bgs</u>				
<u>0935</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS12</u>	<u>12</u>						<u>X</u>									
<u>0940</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS13</u>	<u>13</u>						<u>X</u>									
<u>0945</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS14</u>	<u>14</u>						<u>X</u>									
<u>0950</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS15</u>	<u>15</u>						<u>X</u>									
<u>0955</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS16</u>	<u>16</u>						<u>X</u>									
<u>1200</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS17</u>	<u>17</u>						<u>X</u>					<u>4' bgs</u>				
<u>1205</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS18</u>	<u>18</u>						<u>X</u>									
<u>1210</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS19</u>	<u>19</u>						<u>X</u>									
<u>1215</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>FS20</u>	<u>20</u>						<u>X</u>									
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature) <u>Anna Byers</u> Date <u>3/25/22</u> Time <u>10:25</u>											Received by: (Signature) <u>Jim Raley</u> Date <u>3/25/22</u> Time <u>10:25</u>									
Relinquished by: (Signature) <u>Jim Raley</u> Date <u>3/25/22</u> Time <u>1600</u>											Received by: (Signature) <u>Carla Chittin</u> Date <u>3/28/22</u> Time <u>8:15</u>									
Relinquished by: (Signature) _____ Date _____ Time _____											Received by: (Signature) _____ Date _____ Time _____									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 3/31/2022 3:45:25PM

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:	03/28/22 08:15	Work Order ID:	E203169
Phone:	(281) 702-2329	Date Logged In:	03/25/22 14:29	Logged In By:	Alexa Michaels
Email:	joseph@ensolum.com	Due Date:	04/01/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

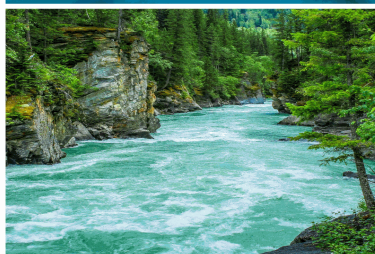
Date



envirotech Inc.

Report to:

Joseph Hernandez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 16-5

Work Order: E203170

Job Number: 01058-0007

Received: 3/28/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/6/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/6/22



Joseph Hernandez
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX 16-5
Workorder: E203170
Date Received: 3/28/2022 8:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2022 8:15:00AM, under the Project Name: RDX 16-5.

The analytical test results summarized in this report with the Project Name: RDX 16-5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21	E203170-01A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS22	E203170-02A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS23	E203170-03A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS24	E203170-04A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS25	E203170-05A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS26	E203170-06A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS27	E203170-07A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS28	E203170-08A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS29	E203170-09A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS30	E203170-10A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS31	E203170-11A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS32	E203170-12A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS33	E203170-13A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS34	E203170-14A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS35	E203170-15A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS36	E203170-16A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS37	E203170-17A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS38	E203170-18A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS39	E203170-19A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS40	E203170-20A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: RDX 16-5 Project Number: 01058-0007 Project Manager: Joseph Hernandez	Reported: 4/6/2022 5:26:12PM
-------------------------------------------------------------------	-------------------------------------------------------------------------------------------	---------------------------------

FS21

E203170-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	112 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	1290	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS22

E203170-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		128 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	771	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS23

E203170-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		89.6 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	1370	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS24

E203170-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	1390	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS25

E203170-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	1330	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS26

E203170-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>		93.2 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	2110	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS27

E203170-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		126 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	703	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS28

E203170-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	1690	400	20	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS29

E203170-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		165 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	393	40.0	2	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS30

E203170-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		142 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	367	200	10	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS31

E203170-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		83.1 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	2770	40.0	2	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS32

E203170-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	2440	400	20	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS33

E203170-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.6 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		160 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	1950	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS34

E203170-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		145 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	3150	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS35

E203170-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	418	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS36

E203170-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	1800	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS37

E203170-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/05/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	03/31/22	04/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	1670	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS38

E203170-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	366	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS39

E203170-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214042
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.6 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214074
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		156 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214054
Chloride	2420	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:26:12PM

FS40

E203170-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Benzene	ND	0.0250	1	03/30/22	04/03/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/03/22	
Toluene	ND	0.0250	1	03/30/22	04/03/22	
o-Xylene	ND	0.0250	1	03/30/22	04/03/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/03/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/03/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/03/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	03/30/22	04/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2214074	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
<i>Surrogate: n-Nonane</i>						
		129 %	50-200	03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214054	
Chloride	5080	40.0	2	03/31/22	04/05/22	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:26:12PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214042-BLK1)

Prepared: 03/30/22 Analyzed: 04/04/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	70-130			

LCS (2214042-BS1)

Prepared: 03/30/22 Analyzed: 04/04/22

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.4	70-130			
Toluene	4.64	0.0250	5.00		92.8	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	70-130			
p,m-Xylene	9.23	0.0500	10.0		92.3	70-130			
Total Xylenes	13.9	0.0250	15.0		92.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

Matrix Spike (2214042-MS1)

Source: E203170-02

Prepared: 03/30/22 Analyzed: 04/04/22

Benzene	4.69	0.0250	5.00	ND	93.8	54-133			
Ethylbenzene	4.54	0.0250	5.00	ND	90.8	61-133			
Toluene	4.72	0.0250	5.00	ND	94.4	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
p,m-Xylene	9.38	0.0500	10.0	ND	93.8	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

Matrix Spike Dup (2214042-MSD1)

Source: E203170-02

Prepared: 03/30/22 Analyzed: 04/04/22

Benzene	4.63	0.0250	5.00	ND	92.7	54-133	1.24	20	
Ethylbenzene	4.50	0.0250	5.00	ND	90.1	61-133	0.806	20	
Toluene	4.67	0.0250	5.00	ND	93.5	61-130	1.00	20	
o-Xylene	4.71	0.0250	5.00	ND	94.1	63-131	0.725	20	
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131	0.750	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131	0.742	20	
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:26:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214042-BLK1)

Prepared: 03/30/22 Analyzed: 04/04/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS (2214042-BS2)

Prepared: 03/30/22 Analyzed: 04/04/22

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2214042-MS2)

Source: E203170-02

Prepared: 03/30/22 Analyzed: 04/04/22

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			

Matrix Spike Dup (2214042-MSD2)

Source: E203170-02

Prepared: 03/30/22 Analyzed: 04/04/22

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	0.339	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:26:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214074-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.7		50.0		119	50-200			

LCS (2214074-BS1)

Prepared: 03/31/22 Analyzed: 04/05/22

Diesel Range Organics (C10-C28)	567	25.0	500		113	38-132			
Surrogate: n-Nonane	66.3		50.0		133	50-200			

Matrix Spike (2214074-MS1)

Source: E203170-15

Prepared: 03/31/22 Analyzed: 04/05/22

Diesel Range Organics (C10-C28)	539	25.0	500	ND	108	38-132			
Surrogate: n-Nonane	60.8		50.0		122	50-200			

Matrix Spike Dup (2214074-MSD1)

Source: E203170-15

Prepared: 03/31/22 Analyzed: 04/05/22

Diesel Range Organics (C10-C28)	549	25.0	500	ND	110	38-132	1.82	20	
Surrogate: n-Nonane	66.4		50.0		133	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:26:12PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214054-BLK1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride	ND	20.0							
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LCS (2214054-BS1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2214054-MS1)

Source: E203170-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride	1440	20.0	250	1290	60.0	80-120			M2
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Matrix Spike Dup (2214054-MSD1)

Source: E203170-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride	1570	20.0	250	1290	112	80-120	8.68	20	
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QC Summary Report Comment:

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	RDX 16-5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:26

M2 Matrix spike recovery was outside quality control 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 Custody

Page 4 of 6

Client: <u>Devon Energy</u>					Bill To		Lab Use Only		TAT				EPA Program				
Project: <u>RDX16-S</u>					Attention: <u>Jim Raley</u>		Lab WO# <u>E 203170</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>Joseph Hernandez</u>					Address:		Analysis and Method										
Address:					City, State, Zip		DRO/DRO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		
City, State, Zip					Phone:		Chloride 300.0										
Email:					Email:												
Report due by: <u>3/31/22</u>															State		
															NM CO UT AZ TX		
															Remarks		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
1310	3/24/22	S	1	FS31	11	4' bgs											
1315				FS32	12												
1320				FS33	13												
1325				FS34	14												
1330				FS35	15												
1335				FS36	16												
1340				FS37	17												
1345				FS38	18												
1350				FS39	19												
1355				FS40	20												
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature) <u>Anna Byers</u>					Date <u>3/25/22</u>		Time <u>10:25</u>		Received by: (Signature) <u>Jim Raley</u>					Date <u>3/25/22</u>		Time <u>10:25</u>	
Relinquished by: (Signature) <u>Jim Raley</u>					Date <u>3/25/22</u>		Time <u>1600</u>		Received by: (Signature) <u>Carleen Chuter</u>					Date <u>3/28/22</u>		Time <u>8:15</u>	
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

Envirotech Analytical Laboratory

Printed: 3/31/2022 3:38:27PM

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:	03/28/22 08:15	Work Order ID:	E203170
Phone:	(281) 702-2329	Date Logged In:	03/25/22 14:31	Logged In By:	Alexa Michaels
Email:	joseph@ensolum.com	Due Date:	04/01/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Joseph Hernandez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 16-5

Work Order: E203171

Job Number: 01058-0007

Received: 3/28/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/6/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/6/22



Joseph Hernandez
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX 16-5
Workorder: E203171
Date Received: 3/28/2022 8:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2022 8:15:00AM, under the Project Name: RDX 16-5.

The analytical test results summarized in this report with the Project Name: RDX 16-5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS41	E203171-01A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS42	E203171-02A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
FS43	E203171-03A	Soil	03/24/22	03/28/22	Glass Jar, 2 oz.
SW01	E203171-04A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW02	E203171-05A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW03	E203171-06A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW04	E203171-07A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW05	E203171-08A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW06	E203171-09A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW07	E203171-10A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW08	E203171-11A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW09	E203171-12A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW10	E203171-13A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW11	E203171-14A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
SW12	E203171-15A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

FS41

E203171-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	111 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	991	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

FS42

E203171-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	93.9 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	99.2 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	2120	200	10	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

FS43

E203171-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	115 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	2420	400	20	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW01

E203171-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.8 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	92.1 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.8 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	111 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	145	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW02

E203171-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	112 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	362	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW03

E203171-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.5 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.5 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	110 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	352	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW04

E203171-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	106	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW05

E203171-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	89.5 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.0 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	89.5 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	98.0 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	130	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW06

E203171-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214027	
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2214027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	91.0 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AK		Batch: 2214075	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2214055	
Chloride	239	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW07

E203171-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/30/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/30/22	
Toluene	ND	0.0250	1	03/29/22	03/30/22	
o-Xylene	ND	0.0250	1	03/29/22	03/30/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/30/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	90.3 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.0 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/30/22	
Surrogate: Bromofluorobenzene	90.3 %	70-130		03/29/22	03/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/30/22	
Surrogate: Toluene-d8	97.0 %	70-130		03/29/22	03/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	111 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	121	40.0	2	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW08

E203171-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/31/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/31/22	
Toluene	ND	0.0250	1	03/29/22	03/31/22	
o-Xylene	ND	0.0250	1	03/29/22	03/31/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/31/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	91.8 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	91.8 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	98.5 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	111 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	131	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW09

E203171-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/31/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/31/22	
Toluene	ND	0.0250	1	03/29/22	03/31/22	
o-Xylene	ND	0.0250	1	03/29/22	03/31/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/31/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	97.4 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	97.4 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	297	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW10

E203171-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/31/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/31/22	
Toluene	ND	0.0250	1	03/29/22	03/31/22	
o-Xylene	ND	0.0250	1	03/29/22	03/31/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/31/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	98.8 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	98.8 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	114 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	167	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW11

E203171-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/31/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/31/22	
Toluene	ND	0.0250	1	03/29/22	03/31/22	
o-Xylene	ND	0.0250	1	03/29/22	03/31/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/31/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	97.6 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	97.6 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	118 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	167	20.0	1	03/31/22	04/02/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:23:11PM

SW12

E203171-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Benzene	ND	0.0250	1	03/29/22	03/31/22	
Ethylbenzene	ND	0.0250	1	03/29/22	03/31/22	
Toluene	ND	0.0250	1	03/29/22	03/31/22	
o-Xylene	ND	0.0250	1	03/29/22	03/31/22	
p,m-Xylene	ND	0.0500	1	03/29/22	03/31/22	
Total Xylenes	ND	0.0250	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	96.9 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2214027
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/22	03/31/22	
Surrogate: Bromofluorobenzene	92.5 %	70-130		03/29/22	03/31/22	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		03/29/22	03/31/22	
Surrogate: Toluene-d8	96.9 %	70-130		03/29/22	03/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AK		Batch: 2214075
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/22	04/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/22	04/01/22	
Surrogate: n-Nonane	113 %	50-200		03/31/22	04/01/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214055
Chloride	134	20.0	1	03/31/22	04/02/22	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:23:11PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214027-BLK1)

Prepared: 03/29/22 Analyzed: 03/29/22

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	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2214027-BS1)

Prepared: 03/29/22 Analyzed: 03/29/22

Benzene	2.61	0.0250	2.50		104	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.54	0.0250	2.50		102	70-130			
p,m-Xylene	5.09	0.0500	5.00		102	70-130			
Total Xylenes	7.63	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS Dup (2214027-BSD1)

Prepared: 03/29/22 Analyzed: 03/29/22

Benzene	2.59	0.0250	2.50		104	70-130	0.750	23	
Ethylbenzene	2.67	0.0250	2.50		107	70-130	2.06	27	
Toluene	2.68	0.0250	2.50		107	70-130	3.26	24	
o-Xylene	2.55	0.0250	2.50		102	70-130	0.295	27	
p,m-Xylene	5.18	0.0500	5.00		104	70-130	1.66	27	
Total Xylenes	7.72	0.0250	7.50		103	70-130	1.20	27	
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:23:11PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214027-BLK1)

Prepared: 03/29/22 Analyzed: 03/29/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2214027-BS2)

Prepared: 03/29/22 Analyzed: 03/29/22

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS Dup (2214027-BSD2)

Prepared: 03/29/22 Analyzed: 03/29/22

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0		112	70-130	7.07	20	
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:23:11PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214075-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.2		50.0		106	50-200			

LCS (2214075-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Diesel Range Organics (C10-C28)	439	25.0	500		87.8	38-132			
Surrogate: <i>n</i> -Nonane	55.9		50.0		112	50-200			

Matrix Spike (2214075-MS1)

Source: E203171-09

Prepared: 03/31/22 Analyzed: 04/01/22

Diesel Range Organics (C10-C28)	436	25.0	500	ND	87.2	38-132			
Surrogate: <i>n</i> -Nonane	56.2		50.0		112	50-200			

Matrix Spike Dup (2214075-MSD1)

Source: E203171-09

Prepared: 03/31/22 Analyzed: 04/01/22

Diesel Range Organics (C10-C28)	445	25.0	500	ND	88.9	38-132	1.92	20	
Surrogate: <i>n</i> -Nonane	58.0		50.0		116	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:23:11PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214055-BLK1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride ND 20.0

LCS (2214055-BS1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 256 20.0 250 103 90-110

Matrix Spike (2214055-MS1)

Source: E203171-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 1250 20.0 250 991 105 80-120

Matrix Spike Dup (2214055-MSD1)

Source: E203171-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 1180 20.0 250 991 77.0 80-120 5.67 20 M2

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 16-5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:23

- M2 Matrix spike recovery was outside quality control 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 Custody

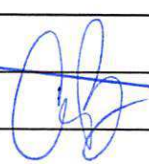
Page 5 of 6

Client: <u>Devon Energy</u>					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>RDX 16-S</u>					Attention: <u>Jim Raley</u>					Lab WO# <u>E203171</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Joseph Hernandez</u>					Address:					Analysis and Method									RCRA					
Address:					City, State, Zip																			
City, State, Zip					Phone:					DRO/ORO by 8015									State					
Email:					Email:																			
Report due by: <u>3/31/22</u>										GRO/DRO by 8015									NM		CO	UT	AZ	TX
										BTEX by 8021									Remarks					
										VOC by 8260														
										Metals 6010														
										Chloride 300.0														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
1400	3/24/22	S	1	FS41	1											4' bgs								
1405				FS42	2																			
1410				FS43	3																			
1000				SW01	4											0-2' bgs								
1005				SW02	5																			
1010				SW03	6																			
1025				SW04	7											0-4' bgs								
1030				SW05	8																			
1035				SW06	9																			
1040				SW07	10																			
Additional Instructions:																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																								
Sampled by: <u>Anna Byers</u>																								
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																								
Relinquished by: (Signature) <u>Anna Byers</u> Date <u>3/25/22</u> Time <u>10:25</u> Received by: (Signature) <u>JK Bradley</u> Date <u>3/25/22</u> Time <u>10:25</u>																								
Relinquished by: (Signature) <u>JK Bradley</u> Date <u>3/25/22</u> Time <u>1600</u> Received by: (Signature) <u>Keith Carter</u> Date <u>3/28/22</u> Time <u>8:15</u>																								
Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____																								
Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

Project Information

Chain of Custody

Page 6 of 6

Client: <u>Devon Energy</u>					Bill To					Lab Use Only					TAT				EPA Program																			
Project: <u>RDX 16-5</u>					Attention: <u>Jim Raley</u>					Lab WO# <u>E203171</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA														
Project Manager: <u>Joseph Hernandez</u>					Address:					Analysis and Method									RCRA																			
Address:					City, State, Zip																																	
City, State, Zip					Phone:					DRO/ORO by 8015					GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				State			
Email:					Email:																																	
Report due by: <u>3/31/22</u>																																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	Remarks																
1045	3/24/22	S	1	SW08	11																	ø-4' bgs																
1050	↓	↓	↓	SW09	12																																	
1055	↓	↓	↓	SW10	13																																	
1100	↓	↓	↓	SW11	14																																	
1105	↓	↓	↓	SW12	15																																	
																																						
Additional Instructions:																																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																												
Relinquished by: (Signature) <u>Anna Byers</u>					Date <u>3/25/22</u> Time <u>10:25</u>					Received by: (Signature) <u>Jim Raley</u>					Date <u>3/25/22</u> Time <u>10:25</u>					Lab Use Only																		
Relinquished by: (Signature) <u>Jim Raley</u>					Date <u>3/25/22</u> Time <u>16:00</u>					Received by: (Signature) <u>Caitlin Chetani</u>					Date <u>3/28/22</u> Time <u>8:15</u>					Received on ice: <u>Y</u> / N																		
Relinquished by: (Signature)					Date					Time					Date					Time					T1 T2 T3													
																				AVG Temp °C <u>4</u>																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																						

Envirotech Analytical Laboratory

Printed: 3/31/2022 3:32:13PM

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:	03/28/22 08:15	Work Order ID:	E203171
Phone:	(281) 702-2329	Date Logged In:	03/25/22 14:32	Logged In By:	Alexa Michaels
Email:	joseph@ensolum.com	Due Date:	04/01/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

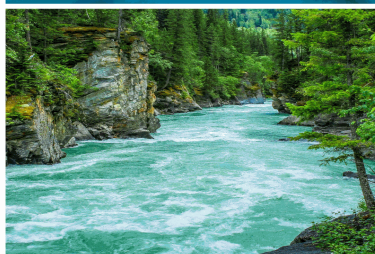
Date



envirotech Inc.

Report to:

Joseph Hernandez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 16-5

Work Order: E203173

Job Number: 01058-0007

Received: 3/28/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/6/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/6/22



Joseph Hernandez
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: RDX 16-5
Workorder: E203173
Date Received: 3/28/2022 8:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2022 8:15:00AM, under the Project Name: RDX 16-5.

The analytical test results summarized in this report with the Project Name: RDX 16-5 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 @ 1'	E203173-01A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
PH01 @ 4'	E203173-02A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:20:00PM

PH01 @ 1'

E203173-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2214018
Benzene	ND	0.0250	1	03/28/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/28/22	04/02/22	
Toluene	ND	0.0250	1	03/28/22	04/02/22	
o-Xylene	ND	0.0250	1	03/28/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/28/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/28/22	04/02/22	
Surrogate: Bromofluorobenzene	88.7 %	70-130		03/28/22	04/02/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/28/22	04/02/22	
Surrogate: Toluene-d8	96.4 %	70-130		03/28/22	04/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2214018
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/22	04/02/22	
Surrogate: Bromofluorobenzene	88.7 %	70-130		03/28/22	04/02/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		03/28/22	04/02/22	
Surrogate: Toluene-d8	96.4 %	70-130		03/28/22	04/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214028
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/22	03/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/22	03/31/22	
Surrogate: n-Nonane	106 %	50-200		03/29/22	03/31/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214056
Chloride	415	20.0	1	03/31/22	04/04/22	



Sample Data

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

Project Name: RDX 16-5
Project Number: 01058-0007
Project Manager: Joseph Hernandez

Reported:
4/6/2022 5:20:00PM

PH01 @ 4'

E203173-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2214018
Benzene	ND	0.0250	1	03/28/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/28/22	04/02/22	
Toluene	ND	0.0250	1	03/28/22	04/02/22	
o-Xylene	ND	0.0250	1	03/28/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/28/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/28/22	04/02/22	
Surrogate: Bromofluorobenzene	87.6 %	70-130		03/28/22	04/02/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		03/28/22	04/02/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/28/22	04/02/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2214018
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/22	04/02/22	
Surrogate: Bromofluorobenzene	87.6 %	70-130		03/28/22	04/02/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		03/28/22	04/02/22	
Surrogate: Toluene-d8	98.4 %	70-130		03/28/22	04/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2214028
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/22	03/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/22	03/31/22	
Surrogate: n-Nonane	96.1 %	50-200		03/29/22	03/31/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2214056
Chloride	184	20.0	1	03/31/22	04/04/22	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:20:00PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2214018-BLK1)

Prepared: 03/28/22 Analyzed: 04/01/22

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	0.442		0.500		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

LCS (2214018-BS1)

Prepared: 03/28/22 Analyzed: 04/01/22

Benzene	2.75	0.0250	2.50		110	70-130			
Ethylbenzene	2.80	0.0250	2.50		112	70-130			
Toluene	2.80	0.0250	2.50		112	70-130			
o-Xylene	2.72	0.0250	2.50		109	70-130			
p,m-Xylene	5.44	0.0500	5.00		109	70-130			
Total Xylenes	8.16	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2214018-MS1)

Source: E203180-01

Prepared: 03/28/22 Analyzed: 04/01/22

Benzene	2.72	0.0250	2.50	ND	109	48-131			
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135			
Toluene	2.75	0.0250	2.50	ND	110	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.34	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.03	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2214018-MSD1)

Source: E203180-01

Prepared: 03/28/22 Analyzed: 04/01/22

Benzene	2.70	0.0250	2.50	ND	108	48-131	0.443	23	
Ethylbenzene	2.79	0.0250	2.50	ND	111	45-135	1.28	27	
Toluene	2.79	0.0250	2.50	ND	112	48-130	1.54	24	
o-Xylene	2.71	0.0250	2.50	ND	108	43-135	0.946	27	
p,m-Xylene	5.42	0.0500	5.00	ND	108	43-135	1.51	27	
Total Xylenes	8.13	0.0250	7.50	ND	108	43-135	1.32	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:20:00PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214018-BLK1)

Prepared: 03/28/22 Analyzed: 04/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.442		0.500		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

LCS (2214018-BS2)

Prepared: 03/28/22 Analyzed: 04/01/22

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.468		0.500		93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike (2214018-MS2)

Source: E203180-01

Prepared: 03/28/22 Analyzed: 04/01/22

Gasoline Range Organics (C6-C10)	58.3	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2214018-MSD2)

Source: E203180-01

Prepared: 03/28/22 Analyzed: 04/01/22

Gasoline Range Organics (C6-C10)	58.1	20.0	50.0	ND	116	70-130	0.257	20	
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:20:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214028-BLK1)

Prepared: 03/29/22 Analyzed: 03/30/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			

LCS (2214028-BS1)

Prepared: 03/29/22 Analyzed: 03/30/22

Diesel Range Organics (C10-C28)	431	25.0	500		86.2	38-132			
Surrogate: n-Nonane	37.1		50.0		74.2	50-200			

Matrix Spike (2214028-MS1)

Source: E203158-08

Prepared: 03/29/22 Analyzed: 03/30/22

Diesel Range Organics (C10-C28)	482	25.0	500	ND	96.3	38-132			
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

Matrix Spike Dup (2214028-MSD1)

Source: E203158-08

Prepared: 03/29/22 Analyzed: 03/30/22

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.7	38-132	0.626	20	
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	RDX 16-5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Joseph Hernandez	4/6/2022 5:20:00PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2214056-BLK1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride ND 20.0

LCS (2214056-BS1)

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 261 20.0 250 105 90-110

Matrix Spike (2214056-MS1)

Source: E203172-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 278 20.0 250 ND 111 80-120

Matrix Spike Dup (2214056-MSD1)

Source: E203172-01

Prepared: 03/31/22 Analyzed: 04/02/22

Chloride 271 20.0 250 ND 108 80-120 2.53 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 16-5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Joseph Hernandez	04/06/22 17:20

- 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 Custody

Page 1 of 1

Client: <u>Devon Energy</u> Project: <u>Rox 16-S</u> Project Manager: <u>Joseph Hernandez</u> Address: _____ City, State, Zip: _____ Phone: <u>(281) 762-2329</u> Email: <u>jhernandez@ensolem.com & abyers@ensolem.com</u> Report due by: <u>3/31/22</u>				Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>(575) 689-7597</u> Email: <u>jim.raley@dvn.com</u>				Lab Use Only Lab WO# <u>E203173</u> Job Number <u>01058-0007</u> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0						TAT 1D 2D 3D Standard		EPA Program CWA SDWA RCRA																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State NM CO UT AZ TX																					
1135	3/24/22	S	1	PHØ1 @ 1'	1	X	X	X		X		Incident ID nAB1508551860 Cost Center 1Ø1Ø1Ø844Ø1 P.N. Ø3A19878Ø7																					
1145	3/24/22	S	1	PHØ1 @ 4'	2	X	X	X		X																							
Additional Instructions:																																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
Relinquished by: (Signature) <u>Anna Byers</u> Date <u>3/25/22</u> Time <u>10:24</u>				Received by: (Signature) <u>Jim Raley</u> Date <u>3/25/22</u> Time <u>10:24</u>				Lab Use Only Received on ice: <u>Y</u> / N																									
Relinquished by: (Signature) <u>Jim Raley</u> Date <u>3/25/22</u> Time <u>1600</u>				Received by: (Signature) <u>Arthur Chito</u> Date <u>3/28/22</u> Time <u>8:15</u>				T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																	

Envirotech Analytical Laboratory

Printed: 3/31/2022 3:23:38PM

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:	03/28/22 08:15	Work Order ID:	E203173
Phone:	(281) 702-2329	Date Logged In:	03/25/22 14:37	Logged In By:	Alexa Michaels
Email:	jhernandez@ens	Due Date:	04/01/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX G

Correspondence Emails

Anna Byers

From: Ben Belill
Sent: Friday, March 18, 2022 4:15 PM
To: ocd.enviro@state.nm.us
Cc: Anna Byers; Ashley Ager; Joseph Hernandez; jim.raley@dvn.com
Subject: WPX Site Activity Updates for Week Ending March 25th, 2022

Good evening,

WPX anticipates conducting final confirmation soil sampling activities at the following sites during March 21th through March 25th, 2022.

Ensolum

Site: RDX Federal 16 #005
API: 30-015-36685
Incident Number: nAB1508551060
RP Number: 2RP-2917
Release Date: June 21, 2017

Site: RDU 11
API: 30-015-24307
Incident Number: NAPP2200728755
Release Date: January 4, 2022

Thank you,



Ben Belill
Project Geologist
989-854-0852
Ensolum, LLC
in f t

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

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

CONDITIONS

Action 106897

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 106897
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/21/2022