Oil Conservation Division

Incident ID	nAPP2229038558
District RP	
Facility ID	
Application ID	

# Closure

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

<b><u>Closure Report Attachment Checklist</u>: Each of the following</b>	ng items must be included in the closure report.
$\square$ A scaled site and sampling diagram as described in 19.15.2	29.11 NMAC
Photographs of the remediated site prior to backfill or pho must be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate C	ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file cer may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg restore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to th	
Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date:
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by: Jocelyn Harimon	Date:03/21/2023
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: <u>Robert Hamlet</u> Printed Name: Robert Hamlet	Date: 8/2/2023
Printed Name: <u>Robert Hamlet</u>	Title: Environmental Specialist - Advanced

Page 6



# closure request DEVON ENERGY COMPANY

Created for submission to New Mexico Oil Conservation Division on 2/27/2023

ASHLEY GIOVENGO Project Environmental Scientist

ENERGIZING AMERICA

February 27, 2023

#### **Environmental Incident Group**

State of New Mexico Energy, Minerals, and Natural Resources New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

#### RE: CLOSURE REQUEST

COMPANY	Devon Energy Company
LOCATION	RDX 17 #002
ΑΡΙ	30-015-36464
PLSS	Unit G Sec 17 T26S R30E
GPS	32.0453072, -103.9005585
INCIDENT ID	nAPP2229038558

#### BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Devon Energy Company, hereafter referred to as Devon, regarding the release at the RDX 17 #002 (Site) located in Unit G, Section 17 Township 26 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.0453072 and West -103.9005585. Surface owner of the Site is Bureau of Land Management (BLM). The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On July 8, 2022, a lightning strike caused a fire at the tank battery resulting in the release of 439 barrels (bbls) of produced water and 18 bbls of crude oil into secondary containment. The release breached the earthen containment and impacted two additional areas on the North and West sides of the tank containment as shown in Figure 1. This fire led to the well plug and abandonment as the expense to rebuild the Site was not justified. On December 15, 2022, Devon requested a 90-day extension to remove the remaining equipment onsite prior to starting remediation of the impacted areas (Attachment G). Remediation of impacted soils was completed in accordance with the reclamation standard 19.15.29.13 NMAC.

On November 11, 2022, Wescom personnel arrived onsite to perform an initial surface scrape of the tank containment spill area and to begin delineation sampling. Wescom personnel returned to the Site on January



17, 2023, to continue excavation of the impacted areas and to begin confirmation sampling activities. Remediation of the three spill areas and final confirmation sampling was completed on February 14, 2023.

### SURFACE & GROUND WATER

Devon contracted HRL Compliance Solutions to drill a temporary monitoring well at the RDX Federal Com 17-44H for the purpose of establishing depth to water in the area surrounding the Site. The boring log measurements from the temporary well at the RDX Federal Com 17-44H verify that the depth to groundwater is greater than 110 feet below ground surface (bgs) and is 0.36 miles North of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

### KARST POTENTIAL

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

# TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. This Site is in the medium karst potential zone and depth to groundwater is greater than 110 ft bgs therefore, the applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 2500 ppm Total Petroleum Hydrocarbons (TPH) and 1000 ppm combined Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). A chloride concentration at or below 20000 mg/kg (ppm) in the soil is also required.

The on-pad spill areas were cleaned up in accordance with the reclamation standard 19.15.29.13 NMAC, where all off-pad spill areas must contain a minimum of four feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg.



Closure Crite	29.12.B(4) and Tab	le 1 NMA	C)			
RDX 17 #002 — 32.0453072, -103.9005585						
Depth to Groundwater		Clo	osure Criteria	(unites in mg	/kg)	
		Chloride * numberical				
		limit or background,				
		whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	>110 Ft	20000	2500	1000	50	10
Surface Water	Yes or No		lf ye	s, then		•
< 300 feet from continuously flowing watercourse or other	No					
significant watercourse?	110					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water						
well used by less than 5 households for domestic or stock	No					
watering purposes?						
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school,	NL-					
hospital, institution or church?	No					
Within incorporated municipal boundaries or within a						
defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

### DELINEATION ACTIVITIES

On November 10, 2022, Wescom personnel arrived on Site to conduct delineation sampling of three spill areas as shown in Figure 1. Horizontal delineation sampling was completed in accordance with the strictest closure criteria per Table 1 NMAC. Vertical delineation sampling to the strictest criteria was achieved in two out of four sample locations; Wescom personnel hit refusal at 18 feet bgs in sample location SS01 and 17.5 feet bgs in sample location SS02. A background sample, BG01, was collected 54 feet to the East of the caliche pad, as shown in Figure 1. Wescom personnel returned to the Site on February 13, 2023, to perform an additional surface scrape of the spill area on the North side of the containment and to recollect sample SS06.

A total of 23 delineation samples were jarred and sent to Envirotech, Inc., for laboratory analysis and all samples were below the applicable RRALs for the Site. Delineation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E.

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# REMEDIATION ACTIVITIES

On November 10, 2022, Wescom personnel arrived onsite to complete an initial scrape of the impacted area inside the earthen containment. Wescom personnel returned to the Site on January 17, 2023, to complete the excavation of impacted soils and to conduct confirmation sampling activities. Wescom returned to the Site on February 13, 2023, to recollect confirmation samples CONF27, CONF29, CONF33 and CONF45. Approximately 1,680 cubic yards of contaminated soil was removed from the spill areas and hauled to an approved disposal facility.

Wescom personnel collected 60 composite confirmation samples over the 11-day sampling and excavation period. All confirmation areas and samples are below the reclamation standards at a depth of four feet bgs except confirmation samples CONF27, CONF29 and CONF33. Confirmation samples CONF27, CONF29 and CONF33 were collected at depths greater than four feet bgs and are below the applicable RRALS for the Site as shown in Table 2. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notifications were sent on January 16, 2023, January 23, 2023, and February 10, 2023, to <u>OCD.Enviro@emnrd.nm.gov</u> and are included in Attachment F.

### REQUEST FOR CLOSURE

On behalf of Devon, Wescom hereby requests closure for the release associated with incident number nAPP2229038558 based on the logic below.

- Depth to water at the Site is greater than 110 feet bgs, as per Attachment D.
- All confirmation areas and samples are below the reclamation standard at a depth of four feet bgs or below the applicable RRALs for the Site at depths greater than four feet bgs.
- Impacted material was removed and properly disposed of at an approved facility.
- The spill areas have been horizontally and vertically delineated.

If you have any questions or comments, please call Ms. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

Ashley Giovengo Project Environmental Scientist

Ŵ

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Environmental Incident Group, NMOCD

# REFERENCE MATERIALS

### FIGURES

- FIGURE 1. Delineation Sampling
- FIGURE 2. Confirmation Sampling

# TABLES

- **TABLE 1.** Laboratory Analysis Results: Delineation Samples
- TABLE 2.
   Laboratory Analysis Results: Confirmation Samples

# ATTACHMENTS

ATTACHMENT A.	C-141
ATTACHMENT B.	Site Photos
ATTACHMENT C.	Closure Criteria Supporting Documents
ATTACHMENT D.	Karst Map
ATTACHMENT E.	Envirotech Inc. Laboratory Analysis Reports
ATTACHMENT F.	48-hour Confirmation Sampling Notification Emails
ATTACHMENT G.	Extension Request



# FIGURES







```
Received by OCD: 3/21/2023 9:13:35 AM
```



CONF22 4 ND 135.4 185

CONF44 0 ND ND 361

### FIGURE 2. **CONFIRMATION** SAMPLING

RDX 17 #002 Incident ID: nAPP2229038558 API: 30-015-36464 **GPS** Coordinates: 32.0453072, -103.9005585 Eddy County, New Mexico

#### LEGEND

	٠	Confirmation Sample Locations
		Spill Area - North Side
ļ		Spill Area - Tank Containment
l		Spill Area - West Side

	Depth	BTEX	TPH	
	1.5	ND	ND	
	3	ND	ND	
	4	ND	158.7	
	3	ND	ND	
	4	ND	ND	
	4	ND	ND	
	4	ND	ND	
	4	ND	ND	
	3	ND	ND	
	2	ND	ND	
	2	ND	ND	
	2	ND	ND	
I	2	ND	ND	
I	2	ND	ND	
I	0	ND	ND	
I	2	ND	ND	





# TABLES



	RDX 17 #002   nAPP2229038558							
		Devon l		02.20.2023				
Та	ble 1. Lab			sults: Deline	ation Samp	les		
San	nple Descri	otion	Pet	troleum Hydro	carbons	Inorganic		
			V	′olatile	Extractable			
			Benzene	Total BTEX	TPH	Chloride		
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)		
<b>Closure Cri</b>	teria		10	50	100	600		
BG01	1	11/11/2022	ND	ND	ND	ND		
BG01	1	11/11/2022	ND	ND	ND	ND		
SS01	2	11/10/2022	ND	ND	2402	104		
SS01	4	11/10/2022	ND	ND	ND	644		
SS01	6	11/11/2022	ND	ND	242	2250		
SS01	8	11/11/2022	ND	ND	1117	4730		
SS01	10	11/11/2022	ND	ND	175.4	1640		
SS01	12	1/17/2023	ND	ND	174.6	847		
SS01	14	1/18/2023	ND	ND	ND	1080		
SS01	18	1/27/2023	ND	ND	ND	1170		
SS02	2	11/10/2022	ND	ND	1636	9650		
SS02	4	11/10/2022	ND	ND	ND	5820		
SS02	6	11/11/2022	ND	ND	ND	1140		
SS02	8	11/11/2022	ND	ND	ND	1290		
SS02	10	11/11/2022	ND	ND	4470			
SS02	12	1/17/2023	ND	ND	ND	4630		
SS02	14	1/18/2023	ND	ND	1114	6310		
SS02	17.5	1/27/2023	ND	ND	ND	4280		
SS03	2	3/7/2022	ND	ND	ND	ND		
SS04B	0	3/7/2022	ND	ND	ND	22.3		
SS05A	0	3/7/2022	ND	ND	ND	280		
SS06A	0	3/7/2022	ND	ND	ND	828		
SS06A	0	2/13/2023	ND	ND	ND	51.4		
SS07	0	3/7/2022	ND	ND	ND	588		
SS08	1	3/7/2022	ND	ND	ND	87.1		
ABBREVIATIONS								
BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics								
DRO — Diesel I	Range Organics			ND — Non-detect				
ft. — Feet mg/kg — Milligrams per Kilogram								
TPH — Total Petroleum Hydrocarbons								
Notes								
Bold Red - Res	ults are above o	closure criteria						
Gray Highlight	- Background S	amples						



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RDX 17 #002   nAPP2229038558								
		De	von Ener	gy   02.20.2	023			
Table 2. Laboratory Analysis Results: Confirmation Samples								
Sam	ple Descript	tion		Petroleum	Hydrocarbons		Inorganic	
			V	′olatile	Extrac	table		
			Benzene	Total BTEX	TPH	GRO+DRO	Chloride	
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	
Closure Crite	ria		10	50	2500	1000	20000	
CONF01 4 1/19/2023 ND ND ND ND 135								
CONF02	4	1/19/2023	ND	ND	ND	ND	ND	
CONF03	4	1/19/2023	ND	ND	ND	ND	ND	
CONF04	4	1/19/2023	ND	ND	65.7	65.7	130	
CONF05	4	1/19/2023	ND	ND	ND	ND	150	
CONF06	4	1/19/2023	ND	ND	ND	ND	778	
CONF07	4	1/19/2023	ND	ND	ND	ND	41.3	
CONF08	4	1/19/2023	ND	ND	ND	ND	105	
CONF09	4	1/19/2023	ND	ND	ND	ND	209	
CONF10	4	1/19/2023	ND	ND	ND	ND	197	
CONF11	4	1/20/2023	ND	ND	ND	ND	1510	
CONF12	4	1/20/2023	ND	ND	33.4	33.4	ND	
CONF13	4	1/20/2023	ND	ND	35	35	2020	
CONF14	4	1/20/2023	ND	ND	ND	ND	ND	
CONF15	4	1/20/2023	ND	ND	755	395	3320	
CONF16	4	1/20/2023	ND	ND	193.5	125	ND	
CONF17	4	1/20/2023	ND	ND	44.9	44.9	5650	
CONF18	4	1/20/2023	ND	ND	28.6	28.6	447	
CONF19	4	1/20/2023	ND	ND	66.8	66.8	2390	
CONF20	4	1/20/2023	ND	ND	60.2	60.2	ND	
ABBREVIATIONS								
BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics								
DRO — Diesel Ra	nge Organics			ND — Non-detect				
ft. — Feet mg/kg — Milligrams per Kilogram								
TPH — Total Petroleum Hydrocarbons								
Notes								
Bold Red - Result	s are above clos	ure criteria						

Gray Highlight - Background Samples

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RDX 17 #002   nAPP2229038558								
Devon Energy   02.20.2023								
	Table 2.	Laboratory	/ Analysis	s Results: Co	nfirmation S	Samples		
Sam	ple Descript	tion		Petroleum	Hydrocarbons	-	Inorganic	
			V	′olatile	Extrac	table		
			Benzene	Total BTEX	TPH	GRO+DRO	Chloride	
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	
<b>Closure Crite</b>	ria		10	50	2500	1000	20000	
CONF21	4	1/20/2023	ND	ND	98.8	98.8	1730	
CONF22	4	1/20/2023	ND	ND	135.4	82.4	185	
CONF23	4	1/20/2023	ND	ND	759	388	1900	
CONF24	4	1/20/2023	ND	ND	54	54	446	
CONF25	4	1/20/2023	ND	ND	420	420	3850	
CONF26	4	1/20/2023	ND	ND	216.2	148	931	
CONF27	4	1/20/2023	ND	ND	3820	2240	4010	
CONF27	5.5	2/14/2023	ND	ND	399	210	5110	
CONF28	4	1/20/2023	ND	ND	341	238	771	
CONF29	4	1/20/2023	ND	0.443	9210	6170	1640	
CONF29	5.5	2/14/2023	ND	0.1166	224.7	98.7	3880	
CONF30	4	1/20/2023	ND	ND	197.8	128	1480	
CONF31	4	1/20/2023	ND	ND	212.9	134	3120	
CONF32 4 1/20/2023 ND ND 294 184 986								
CONF33 4 1/20/2023 ND ND <b>2511 1730</b> 1960								
CONF33	5	2/14/2023	ND	ND	ND	ND	1990	
CONF34	4	1/20/2023	ND	ND	961	615	1460	
CONF35	4	1/20/2023	ND	ND	1629	928	1320	
CONF36	4	1/20/2023	ND	ND	ND	ND	2100	
CONF37	4	1/25/2023	ND	ND	511	251	2500	
CONF38	4	1/25/2023	ND	ND	ND	ND	1700	
CONF39	0	1/25/2023	ND	ND	ND	ND	160	
CONF40	0	1/25/2023	ND	ND	ND	ND	48.4	
ABBREVIATIONS								
BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics								
DRO — Diesel Range Organics ND — Non-detect								
ft. — Feet mg/kg — Milligrams per Kilogram								
TPH — Total Petroleum Hydrocarbons								
Notes								
Bold Red - Result	s are above clos	ure criteria						
Gray Highlight - B	ackground Sam	oles						



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Table 2. Laboratory Analysis Results: Confirmation Samples           Sample Description         Petroleum Hydrocarbons         Inorg           Sample Description         Petroleum Hydrocarbons         Inorg           Sample ID         Depth (ft.)         Date         Total BTEX         TPH         GRO+DRO         Chlo           Sample ID         Depth (ft.)         Date         Total BTEX         TPH         GRO+DRO         Chlo           Sample ID         Depth (ft.)         Date         Total BTEX         TPH         GRO+DRO         Chlo           CONF41         0         1/25/2023         ND         ND         ND         ND         Add           CONF44         0         1/25/2023         ND         ND         ND         ND         ND           CONF44         0         1/25/2023         ND         ND         ND <t< th=""><th colspan="9">Devon Energy   02.20.2023</th></t<>	Devon Energy   02.20.2023								
Sample DescriptionPetroleum HydrocarbonsInorgativeSample IDDepth (ft.)DateTotal BTEXTPHGRO+DROChloSample IDDepth (ft.)DateTotal BTEXTPHGRO+DROChloColspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Total BTEXTPHGRO+DROChloColspan="4">Colspan="4">Total BTEXTPHGRO+DROChloColspan="4">Colspa									
Sample ID         Depth (ft.)         Date         Benzene (mk/kg)         Total BTEX (mk/kg)         TPH (mk/kg)         GRO+DRO (mk/kg)         Chlo (mk/kg)           Closure Criteria         10         50         2500         1000         200           CONF41         0         1/25/2023         ND         ND         ND         ND         20           CONF42         0         1/25/2023         ND         ND         ND         ND         44           CONF43         0         1/25/2023         ND         ND         ND         ND         45           CONF45         0.5         1/25/2023         ND         ND         ND         ND         66           CONF45         1.5         2/14/2023         ND         ND         ND         ND         44           CONF45         1.5         2/14/2023         ND         ND         ND         ND         44           CONF46         3         1/25/2023         ND         ND         ND         ND         44           CONF47         4         1/25/2023         ND         ND         ND         ND         44           CONF48         3         1/25/2023         ND <tn< th=""><th>Sam</th><th></th><th>-</th><th></th><th></th><th></th><th></th><th>Inorganio</th></tn<>	Sam		-					Inorganio	
Sample ID         Depth (ft.)         Date         (mk/kg)				V	′olatile	Extrac	table		
Closure Criteria         10         50         250         1000         200           CONF41         0         1/25/2023         ND         ND         ND         ND         ND         20           CONF42         0         1/25/2023         ND         ND         ND         ND         ND         45           CONF43         0         1/25/2023         ND         ND         ND         ND         ND         45           CONF44         0         1/25/2023         ND         ND         ND         ND         ND         46           CONF45         0.5         1/25/2023         ND         ND         ND         ND         ND         ND         46           CONF45         1.5         2/14/2023         ND         ND         ND         ND         ND         46           CONF46         3         1/25/2023         ND         ND         ND         ND         47           CONF47         4         1/25/2023         ND         ND         ND         ND         43           CONF48         3         1/25/2023         ND         ND         ND         ND         44           CONF50         <				Benzene	Total BTEX	TPH	GRO+DRO	Chloride	
CONF41         0         1/25/2023         ND         ND         ND         ND         ND         ND         AD           CONF42         0         1/25/2023         ND         ND         ND         ND         ND         AD         AD </td <td>Sample ID</td> <td>Depth (ft.)</td> <td>Date</td> <td>(mk/kg)</td> <td>(mk/kg)</td> <td>(mk/kg)</td> <td>(mk/kg)</td> <td>(mk/kg)</td>	Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)	
CONF42         0         1/25/2023         ND         ND         ND         ND         45           CONF43         0         1/25/2023         ND         ND         ND         ND         ND         46           CONF44         0         1/25/2023         ND         ND         ND         ND         ND         46           CONF45         0.5         1/25/2023         ND         ND         ND         ND         ND         46           CONF45         1.5         2/14/2023         ND         ND         ND         ND         46           CONF46         3         1/25/2023         ND         ND         ND         ND         47           CONF47         4         1/25/2023         ND         ND         ND         ND         47           CONF48         3         1/25/2023         ND         ND         ND         ND         43           CONF49         4         1/25/2023         ND         ND         ND         ND         14           CONF50         4         1/25/2023         ND         ND         ND         ND         44           CONF51         4         1/25/2023 <td< td=""><td>Closure Criter</td><td>ia</td><td></td><td>10</td><td>50</td><td>2500</td><td>1000</td><td>20000</td></td<>	Closure Criter	ia		10	50	2500	1000	20000	
CONF43         0         1/25/2023         ND         ND         ND         ND         ND         A           CONF44         0         1/25/2023         ND         ND         ND         ND         ND         33           CONF45         0.5         1/25/2023         ND         ND         ND         ND         ND         46           CONF45         1.5         2/14/2023         ND         ND         ND         ND         46           CONF46         3         1/25/2023         ND         ND         ND         ND         46           CONF47         4         1/25/2023         ND         ND         ND         ND         47           CONF48         3         1/25/2023         ND         ND         ND         ND         47           CONF49         4         1/25/2023         ND         ND         ND         ND         47           CONF50         4         1/25/2023         ND         ND         ND         ND         40           CONF51         4         1/25/2023         ND         ND         ND         ND         42           CONF53         3         1/25/2023	CONF41	0	1/25/2023	ND	ND	ND	ND	26	
CONF44         0         1/25/2023         ND         ND         ND         ND         ND         Second Secon	CONF42	0	1/25/2023	ND	ND	ND	ND	45.8	
CONF45         0.5         1/25/2023         ND         ND         ND         ND         ND         AD           CONF45         1.5         2/14/2023         ND         ND         ND         ND         ND         Ad           CONF46         3         1/25/2023         ND         ND         ND         ND         Ad           CONF47         4         1/25/2023         ND         ND         ND         ND         41           CONF48         3         1/25/2023         ND         ND         ND         ND         42           CONF49         4         1/25/2023         ND         ND         ND         ND         43           CONF50         4         1/25/2023         ND         ND         ND         ND         44           CONF51         4         1/25/2023         ND         ND         ND         ND         66           CONF52         4         1/25/2023         ND         ND         ND         ND         44           CONF53         3         1/25/2023         ND         ND         ND         ND         44           CONF55         2         1/25/2023         ND <td< td=""><td>CONF43</td><td>0</td><td>1/25/2023</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>466</td></td<>	CONF43	0	1/25/2023	ND	ND	ND	ND	466	
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CONF46         3         1/25/2023         ND         ND         ND         ND         ND         66           CONF47         4         1/25/2023         ND         ND         ND         158.7         87.3         41           CONF48         3         1/25/2023         ND         ND         ND         ND         ND         42           CONF49         4         1/25/2023         ND         ND         ND         ND         ND         42           CONF50         4         1/25/2023         ND         ND         ND         ND         14           CONF51         4         1/25/2023         ND         ND         ND         ND         10           CONF52         4         1/25/2023         ND         ND         ND         ND         44           CONF53         3         1/25/2023         ND         ND         ND         ND         44           CONF54         2         1/25/2023         ND         ND         ND         ND         32           CONF55         2         1/25/2023         ND         ND         ND         ND         ND         21           CONF58 Wall <td< td=""><td>CONF45</td><td>0.5</td><td>1/25/2023</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>625</td></td<>	CONF45	0.5	1/25/2023	ND	ND	ND	ND	625	
CONF47         4         1/25/2023         ND         ND         158.7         87.3         41           CONF48         3         1/25/2023         ND         ND         ND         ND         ND         43           CONF49         4         1/25/2023         ND         ND         ND         ND         ND         65           CONF50         4         1/25/2023         ND         ND         ND         ND         ND         14           CONF51         4         1/25/2023         ND         ND         ND         ND         10           CONF52         4         1/25/2023         ND         ND         ND         ND         10           CONF53         3         1/25/2023         ND         ND         ND         ND         44           CONF54         2         1/25/2023         ND         ND         ND         ND         44           CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         ND         ND           CONF58 Wall         2	CONF45	1.5	2/14/2023	ND	ND	ND	ND	466	
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CONF52         4         1/25/2023         ND         ND         ND         ND         ND         64           CONF53         3         1/25/2023         ND         ND         ND         ND         ND         48           CONF54         2         1/25/2023         ND         ND         ND         ND         41           CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         32           CONF57 Wall         2         1/25/2023         ND         ND         ND         ND         ND         ND           CONF58 Wall         2         1/25/2023         ND         ND         ND         ND         27           CONF60 Wall         2         1/25/2023         ND         ND         ND         ND         ND           ABBREVIATIONS         BTEX – Benzene, Toluene, Ethylene, Xylene         GRO – Gasoline Range Organics         ND – Non-detect         mg/kg – Milligrams per Kilogram           TPH – Tot	CONF50	4	1/25/2023	ND	ND	ND	ND	1450	
CONF53         3         1/25/2023         ND         ND         ND         ND         48           CONF54         2         1/25/2023         ND         ND         ND         ND         41           CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         32           CONF57         Vall         2         1/25/2023         ND         ND         ND         ND         ND         ND           CONF58 Wall         2         1/25/2023         ND         ND         ND         ND         40           CONF59 Wall         0         1/25/2023         ND         ND         ND         ND         ND         ND           ABBREVIATIONS         2         1/25/2023         ND         ND         ND         ND         ND         ND           DRO – Diesel Range Organics         ND – Non-detect         mg/kg – Milligrams per Kilogram         TH – Total Petroleum Hydrocarbors         TH – Total Petroleum Hydrocarbors	CONF51	4	1/25/2023	ND	ND	ND	ND	1060	
CONF54         2         1/25/2023         ND         ND         ND         ND         41           CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         21           CONF57 Wall         2         1/25/2023         ND         ND         ND         ND         ND         ND           CONF58 Wall         2         1/25/2023         ND         ND         ND         ND         40           CONF59 Wall         0         1/25/2023         ND         ND         ND         ND         27           CONF60 Wall         2         1/25/2023         ND         ND         ND         ND         ND           ABBREVIATIONS         BTEX – Benzene, Toluene, Ethylene, Xylene         GRO – Gasoline Range Organics         ND – Non-detect         Th. – Feet         mg/kg – Milligrams per Kilogram         TH – Total Petroleum Hydrocarbons	CONF52	4	1/25/2023	ND	ND	ND	ND	644	
CONF55         2         1/25/2023         ND         ND         ND         ND         32           CONF56         2         1/25/2023         ND         ND         ND         ND         21           CONF56         2         1/25/2023         ND         ND         ND         ND         21           CONF57 Wall         2         1/25/2023         ND         ND         ND         ND         ND         ND           CONF58 Wall         2         1/25/2023         ND         ND         ND         ND         40           CONF59 Wall         0         1/25/2023         ND         ND         ND         ND         27           CONF60 Wall         2         1/25/2023         ND         ND         ND         ND         ND           ABBREVIATIONS         2         1/25/2023         ND         ND         ND         ND         ND           BTEX – Benzene, Toluene, Ethylene, Xylene         GRO – Gasoline Range Organics         ND – Non-detect         mg/kg – Milligrams per Kilogram           TPH – Total Petroleum Hydrocarbons         mg/kg – Milligrams per Kilogram         TPH – Total Petroleum Hydrocarbons         TPH – Total Petroleum Hydrocarbons	CONF53	3	1/25/2023	ND	ND	ND	ND	484	
CONF56         2         1/25/2023         ND         ND         ND         ND         21           CONF57 Wall         2         1/25/2023         ND         QC         QC         ND         ND         ND         ND         QC         QC <td< td=""><td>CONF54</td><td>2</td><td>1/25/2023</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>414</td></td<>	CONF54	2	1/25/2023	ND	ND	ND	ND	414	
CONF57 Wall         2         1/25/2023         ND         Additional and	CONF55	2	1/25/2023	ND	ND	ND	ND	320	
CONF58 Wall21/25/2023NDNDNDND40CONF59 Wall01/25/2023NDNDNDND27CONF60 Wall21/25/2023NDNDNDNDNDNDABBREVIATIONSBTEX — Benzene, Toluene, Ethylene, XyleneGRO — Gasoline Range OrganicsDRO — Diesel Range OrganicsND — Non-detectft. — Feetmg/kg — Milligrams per KilogramTPH — Total Petroleum Hydrocarbons	CONF56	2	1/25/2023	ND	ND	ND	ND	218	
CONF59 Wall01/25/2023NDNDNDND27CONF60 Wall21/25/2023NDNDNDNDNDNDNABBREVIATIONSBTEX — Benzene, Toluene, Ethylene, XyleneGRO — Gasoline Range OrganicsDRO — Diesel Range OrganicsND — Non-detectft. — Feetmg/kg — Milligrams per KilogramTPH — Total Petroleum Hydrocarbons	CONF57 Wall	2	1/25/2023	ND	ND	ND	ND	ND	
CONF60 Wall     2     1/25/2023     ND     ND     ND     ND     ND       ABBREVIATIONS       BTEX — Benzene, Toluene, Ethylene, Xylene     GRO — Gasoline Range Organics       DRO — Diesel Range Organics     ND — Non-detect       ct. — Feet     mg/kg — Milligrams per Kilogram	CONF58 Wall	2	1/25/2023	ND	ND	ND	ND	404	
ABBREVIATIONS         BTEX — Benzene, Toluene, Ethylene, Xylene       GRO — Gasoline Range Organics         DRO — Diesel Range Organics       ND — Non-detect         ft. — Feet       mg/kg — Milligrams per Kilogram         IPH — Total Petroleum Hydrocarbons       IPH — Total Petroleum Hydrocarbons	CONF59 Wall	0	1/25/2023	ND	ND	ND	ND	270	
BTEX — Benzene, Toluene, Ethylene, XyleneGRO — Gasoline Range OrganicsDRO — Diesel Range OrganicsND — Non-detectft. — Feetmg/kg — Milligrams per KilogramIPH — Total Petroleum Hydrocarbons	CONF60 Wall	2	1/25/2023	ND	ND	ND	ND	ND	
DRO — Diesel Range OrganicsND — Non-detectt. — Feetmg/kg — Milligrams per KilogramIPH — Total Petroleum Hydrocarbons	ABBREVIATIONS								
rt. — Feet mg/kg — Milligrams per Kilogram IPH — Total Petroleum Hydrocarbons	BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics								
PH — Total Petroleum Hydrocarbons	DRO — Diesel Range Organics ND — Non-detect								
-	ft. — Feet mg/kg — Milligrams per Kilogram								
Notes	TPH — Total Petroleum Hydrocarbons								
10(C)	Notes								
Bold Red - Results are above closure criteria	<b>Bold Red</b> - Results	are above clos	ure criteria						



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# ATTACHMENT A

C-141



District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

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Incident ID	nAPP2229038558
District RP	
Facility ID	
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party WPX Energy Permian, LLC	OGRID 246289	
Contact Name Jim Raley	Contact Telephone 575-689-7597	
Contact email jim.raley@dvn.com	Incident # (assigned by OCD) nAPP2229038558	
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220		

#### **Location of Release Source**

Latitude 32.0453072

Site Name RDX 17 #002	Site Type Oil
Date Release Discovered 10/15/2022	API# ( <i>if applicable</i> ) 30-015-36464

Unit Letter	Section	Township	Range	County
G	17	268	30E	Eddy

Surface Owner: State X Federal Tribal Private (Name: \_

#### Nature and Volume of Release

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

X Crude Oil	Volume Released (bbls) 18	Volume Recovered (bbls) 0
X Produced Water	Volume Released (bbls) 439	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Lig	htning strike caused fire at tank battery, allowing release	e of fluids to secondary containment and pad surface.

 $bbl estimate = \frac{saturated soil volume (ft<sup>2</sup>)}{4.21(\frac{ft^2}{bbl equivalent})} * estimated soil porosity(\%) + recovered fluids (bbl)$ 

cceived by OCD: 3/21/202	3 9:13:35 AM State of New Mexico		Page 18 of 2-
5111 C-141		Incident ID	nAPP2229038558
ige 2	e 2 Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? X Yes No	If YES, for what reason(s) does the responsible par Resulted in fire	ty consider this a major release?	
	otice given to the OCD? By whom? To whom? Whomero and Mike Bratcher as well as BLM on 10/16/2	•	email, etc)?

#### **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

 $\mathbf{X}$  The impacted area has been secured to protect human health and the environment.

X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

x All free liquids and recoverable materials have been removed and managed appropriately.

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Jim Raley	Title: Environmental Proffessional
Signature:	Date:
email: _jim.raley@dvn.com	Telephone:575-689-7597
OCD Only	
Received by:	Date:

Received by OCD: 3/21/2023 9:13:35 AM Form C-141 State of New Mexico

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Oil Conservation Division

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# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;110 (</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

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			Incident ID	nAPP2229038558
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are require public health or the environment. failed to adequately investigate and	n given above is true and complete to the best ed to report and/or file certain release notificati The acceptance of a C-141 report by the OCD I remediate contamination that pose a threat to 41 report does not relieve the operator of respo	ons and perform co does not relieve the groundwater, surfa onsibility for compl	rrective actions for rele operator of liability sho ce water, human health iance with any other feo ental Professional	ases which may endanger ould their operations have or the environment. In
OCD Only				
Received by: Jocelyn H	larimon	Date: 03/2	1/2023	

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Oil Conservation Division

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# Closure

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

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following	ng 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 C	DDC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	nplete to the best of my knowledge and understand that pursuant to OCD rules rtain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially e conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.	
Printed Name: Jim Raley	Title: Environmental Professional	
Signature:	Date: <u>3/21/2023</u>	
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>	
OCD Only	- 00/04/0000	
Received by: Jocelyn Harimon	Date:03/21/2023	
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible nd/or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

# ATTACHMENT B

Site Photos





Tank Containment (After Fire)



Tank Containment (After Fire)





Spill Area (North of Containment)



Spill Area (West of Containment)



**RDX 17 #002** | Incident ID: nAPP2229038558 Page 3 of 14



Spill Area (Southwest Corner)



Initial Scrape (Tank Containment)



**RDX 17 #002** | Incident ID: nAPP2229038558 Page 4 of 14



Initial Scrape (Tank Containment)



Vertical Delineation



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Contaminated Soil Removal



Contaminated Soil Removal

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**RDX 17 #002** | Incident ID: nAPP2229038558 Page 6 of 14



Vertical Delineation



Scraped Area (North of Containment)



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Scraped Area (North of Containment)



Excavation Area (Containment)



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Contaminated Soil



Excavation Area (Containment)





Excavation Area (Containment)



Excavation Area (North of Containment)



**RDX 17 #002** | Incident ID: nAPP2229038558 Page 10 of 14



Excavation Area (West of Containment)



Excavation Area (North of Containment)



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Vertical Delineation



Excavation Area (North of Containment)





Excavation Area (CONF27, CONF29, and CONF33)



Excavation Area (CONF45)





Confirmation Sampling (CONF27, CONF29, and CONF33)



Confirmation Sampling (CONF45)



**RDX 17 #002** | Incident ID: nAPP2229038558 Page 14 of 14

# ATTACHMENT C

# **Closure Criteria Supporting Documents**


County: Project No:



Site Activities

Eddy County, New Mexico

0397

Earth Systems Response and Restoration (ESRR) field activities were conducted December 8<sup>th</sup> through the 10<sup>th</sup> in Eddy county, New Mexico. ESRR oversaw the advancement of one soil boring at the eight abovementioned locations to an approximate depth of 105 feet (ft.) below grade surface utilizing an air-rotary drilling rig operated by a State of New Mexico licensed driller. Additionally, HRL Compliance Solutions (HRL) conducted on-site soil logging activities during the advancement of the soil borings. Please see the detailed lithologic descriptions attached.

Upon completion of the soil borings, a PVC casing fitted with 5 ft. of machine-slotted well screen at the bottom was inserted into each soil boring. The PVC casing was left in place for a minimum of 72 hours prior to being gauged by HRL Consulting on December 12<sup>th</sup> with a water level meter to determine the presence or absence of groundwater. Subsequent to gauging activities, each soil boring had the PVC casing removed and was then backfilled with its associated native soil cuttings to grade surface.

#### Conclusions

Groundwater was not detected in any of the eight soil borings as determined by utilizing a water level meter after 72 hours of development. It can be reasonably determined groundwater is deeper than 105 ft. bgs in the vicinity of the advanced soil borings.

Respectfully,

K. Williams

Kris Williams, CHMM, REM Operations Manager

Attached: Drilling Locations Maps Soil Boring Logs

•

		HR	1	100	11				MONITORING WI	ELL COMPLETION	DIAGRAM	
		CO	MPL	1 A N	CE		Boring/Well		W-1	Location: RDX Federal Co	om 17 <b>-</b> 44H	
	-	S O	LU		NS		Date: 12/8/2020			Client: WDV Energy		
Drilling Me	ethod:		Sampling	Method:			Logged By:	12/0	2020	WPX Energy Drilled By:		
	Air Rotar	у			one			J. Lin	in, PG	Talon L	PE	
Gravel Pacl	k Type: 0/20 Sar	nd	Gravel Pac	ck Depth Inte 3 B	erval: Bags		Seal Type: N	one	Seal Depth Interval: None	Latitude: 32.0496	56	
Casing Typ		Diameter:		Depth Inter	val:			Depth (ft. BGS	):	Longitude:	50	
PVC Screen Typ		2-inch Slot:		0-105 ft Diameter:		Interval:	Wall Tatal D	epth (ft. BGS):	10	-103.904 Depth to Water (ft. BTOC):	054 DTW Date:	
PVC	e:	0.010-ii	nch	2-inch		110 ft	well Total D	• • •	10	> 110	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID		y/Remarks	Well Completion	
$ \begin{array}{c} 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ 40 \\ \end{array} $	NM	L	D	N	N	NM	CE	NS	Buff to pale pin	k colored caliche		
45 50 55 60	NM	L	D	N	N	NM	SW	NS		l graded sand with or silt	-	
65 70 75	NM	L	D	N	N	NM	SP	NS		range poorly graded • ith minor silt		
80 85 90	NM	L	D	N	N	NM	SW-SM SW-SC	NS		ge well-graded sand and and clay		
95 100 105	NM	L	D	N	N	NM	SP	NS		range poorly graded or silt - TD: 110' bgs  -		



## U.S. Fish and Wildlife Service National Wetlands Inventory

## RDX 17 #002 - Riverine 0.44 Miles



#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

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

## National Wetlands Inventory

## RDX 17 #002 - FW Pond 0.39 Miles



#### November 15, 2022

#### Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

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

Lake Other Riverine

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

Released to Imaging: 8/2/2023 2:48:37 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

#### U.S. Fish and Wildlife Service

## National Wetlands Inventory

## RDX 17 #002 - Wetland 3.32 Miles



#### November 15, 2022

#### Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

**Freshwater Pond** 

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

Released to Imaging: 8/2/2023 2:48:37 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

# Received by OCD: 3/21/2023 9:13:35,AM National Flood Hazard Layer FIRMette



#### Legend

Page 43 of 244



OReleasea to Imaging: 8/2/2023 2.909.37 PM 1,500 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Active Mines Near RDX 17 #002



11/15/2022, 8:02:53 AM



Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS



# ATTACHMENT D

Karst Map





# ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order:	E211081
work Order:	E211081

Job Number: 01058-0007

Received: 11/15/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/20/22

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: 11/20/22

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E211081 Date Received: 11/15/2022 3:58:00PM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2022 3:58:00PM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

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

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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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#### *Received by OCD: 3/21/2023 9:13:35 AM*

#### Sample Summary

		Sample Sum	mai y		
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	RDX 17 #002 01058-0007 Ashley Giovengo		<b>Reported:</b> 11/20/22 13:49
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S01-2'	E211081-01A	Soil	11/10/22	11/15/22	Glass Jar, 2 oz.
S01-4'	E211081-02A	Soil	11/10/22	11/15/22	Glass Jar, 2 oz.
S01-6'	E211081-03A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S01-8'	E211081-04A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S01-10'	E211081-05A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
802-2'	E211081-06A	Soil	11/10/22	11/15/22	Glass Jar, 2 oz.
\$02-4'	E211081-07A	Soil	11/10/22	11/15/22	Glass Jar, 2 oz.
\$02-6'	E211081-08A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S02-8'	E211081-09A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S02-10'	E211081-10A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S03-2'	E211081-11A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S04B-0'	E211081-12A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S05A-0'	E211081-13A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S06A-0'	E211081-14A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S07-0'	E211081-15A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
S08-1'	E211081-16A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
G01-0'	E211081-17A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.
3G01-1'	E211081-18A	Soil	11/11/22	11/15/22	Glass Jar, 2 oz.



		impic D				
Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numbe		58-0007			Reported:
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS01-2'				
	]	E211081-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2247044
Benzene	ND	0.0500	2	11/16/22	11/17/22	
Ethylbenzene	ND	0.0500	2	11/16/22	11/17/22	
Toluene	ND	0.0500	2	11/16/22	11/17/22	
p-Xylene	ND	0.0500	2	11/16/22	11/17/22	
p,m-Xylene	ND	0.100	2	11/16/22	11/17/22	
Total Xylenes	ND	0.0500	2	11/16/22	11/17/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	40.0	2	11/16/22	11/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.3 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	862	250	10	11/16/22	11/18/22	
Oil Range Organics (C28-C36)	1540	500	10	11/16/22	11/18/22	
Surrogate: n-Nonane		115 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2247039
Chloride	104	20.0	1	11/16/22	11/17/22	

## Sample Data



	5	ample D	ala			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS01-4'				
		E211081-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/17/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/17/22	
Toluene	ND	0.0250	1	11/16/22	11/17/22	
p-Xylene	ND	0.0250	1	11/16/22	11/17/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/17/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/17/22	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.8 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		104 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2247039
Chloride	644	20.0	1	11/16/22	11/17/22	



	D	ample D	ala			
Devon Energy - Carlsbad	Project Name:	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS01-6'				
		E211081-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/17/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/17/22	
Toluene	ND	0.0250	1	11/16/22	11/17/22	
o-Xylene	ND	0.0250	1	11/16/22	11/17/22	
p,m-Xylene	ND	0.0500	1	11/16/22	11/17/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/17/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	103	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	139	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		98.4 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2247039
Chloride	2250	40.0	2	11/16/22	11/17/22	



	3	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 0105	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS01-8'				
		E211081-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/17/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/17/22	
Toluene	ND	0.0250	1	11/16/22	11/17/22	
o-Xylene	ND	0.0250	1	11/16/22	11/17/22	
p,m-Xylene	ND	0.0500	1	11/16/22	11/17/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/17/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.9 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	517	25.0	1	11/16/22	11/18/22	
Oil Range Organics (C28-C36)	600	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		110 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2247039
Chloride	4730	100	5	11/16/22	11/17/22	



### Sample Data

	3	ample D	ata			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	oer: 0105	58-0007			Reported:
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS01-10'				
		E211081-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/17/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/17/22	
Toluene	ND	0.0250	1	11/16/22	11/17/22	
p-Xylene	ND	0.0250	1	11/16/22	11/17/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/17/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/17/22	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.4 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	88.5	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	86.9	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		107 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2247039
Chloride	1640	40.0	2	11/16/22	11/17/22	



	D	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 0105	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS02-2'				
		E211081-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247044
Benzene	ND	0.0500	2	11/16/22	11/17/22	
Ethylbenzene	ND	0.0500	2	11/16/22	11/17/22	
<b>`oluene</b>	ND	0.0500	2	11/16/22	11/17/22	
-Xylene	ND	0.0500	2	11/16/22	11/17/22	
,m-Xylene	ND	0.100	2	11/16/22	11/17/22	
Total Xylenes	ND	0.0500	2	11/16/22	11/17/22	
urrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	40.0	2	11/16/22	11/17/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		80.1 %	70-130	11/16/22	11/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	556	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	1080	50.0	1	11/16/22	11/18/22	
urrogate: n-Nonane		64.0 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2247039
Chloride	9650	400	20	11/16/22	11/17/22	

	5	ample D	ala			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS02-4'				
		E211081-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
o-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.3 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
urrogate: n-Nonane		105 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2247039
Chloride	5820	400	20	11/16/22	11/17/22	



	5	ample D	ala			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 0103	58-0007		Reported:	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS02-6'				
		E211081-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
p-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.5 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		101 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247039
Chloride	1140	40.0	2	11/16/22	11/17/22	



	5	ample D	ala			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	oer: 0103	58-0007		Reported:	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS02-8'				
		E211081-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
o-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		108 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2247039
Chloride	1290	40.0	2	11/16/22	11/17/22	



### Sample Data

	3	ample D	ata			
Devon Energy - Carlsbad	Project Name	RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	ber: 010	58-0007			Reported:
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS02-10'				
		E211081-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
p-Xylene	ND	0.0250	1	11/16/22	11/18/22	
p,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.8 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247031
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		100 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2247039
Chloride	4470	40.0	2	11/16/22	11/17/22	



	3	ample D	ลเล			
Devon Energy - Carlsbad	Project Name	e: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	oer: 010	58-0007		Reported:	
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS03-2'				
		E211081-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
p-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.2 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	rg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
urrogate: n-Nonane		104 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247039
Chloride	ND	200	10	11/16/22	11/17/22	



	<b>D</b>	ample D	ala			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 0103	58-0007		Reported:	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS04B-0'				
		E211081-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
<b>`</b> oluene	ND	0.0250	1	11/16/22	11/18/22	
o-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.4 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		106 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2247039
Chloride	22.3	20.0	1	11/16/22	11/17/22	



	25	imple D	ata			
Devon Energy - Carlsbad	Project Name:	RDZ	K 17 #002			
6488 7 Rivers Hwy	Project Numbe	r: 010:	58-0007			Reported:
Artesia NM, 88210	Project Manage	er: Ash	ey Giovengo			11/20/2022 1:49:02PM
		SS05A-0'				
	]	E211081-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
enzene	ND	0.0250	1	11/16/22	11/18/22	
thylbenzene	ND	0.0250	1	11/16/22	11/18/22	
oluene	ND	0.0250	1	11/16/22	11/18/22	
-Xylene	ND	0.0250	1	11/16/22	11/18/22	
,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
otal Xylenes	ND	0.0250	1	11/16/22	11/18/22	
urrogate: 4-Bromochlorobenzene-PID		105 %	70-130	11/16/22	11/18/22	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
asoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
urrogate: n-Nonane		107 %	50-200	11/16/22	11/18/22	
anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247039
hloride	280	20.0			11/17/22	



. Du	imple D	aca			
Project Name:	RDZ	K 17 #002			
Project Numbe	r: 0105	58-0007			Reported:
Project Manage	er: Ashi	ey Giovengo			11/20/2022 1:49:02PM
	SS06A-0'				
]	E211081-14				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
ND	0.0250	1	11/16/22	11/18/22	
ND	0.0250	1	11/16/22	11/18/22	
ND	0.0250	1	11/16/22	11/18/22	
ND	0.0250	1	11/16/22	11/18/22	
ND	0.0500	1	11/16/22	11/18/22	
ND	0.0250	1	11/16/22	11/18/22	
	102 %	70-130	11/16/22	11/18/22	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2247044
ND	20.0	1	11/16/22	11/18/22	
	80.6 %	70-130	11/16/22	11/18/22	
mg/kg	mg/kg	kg Analyst: RAS		Batch: 2247031	
ND	25.0	1	11/16/22	11/18/22	
ND	50.0	1	11/16/22	11/18/22	
	112 %	50-200	11/16/22	11/18/22	
mg/kg	mg/kg	Analys	t: RAS		Batch: 2247039
828	20.0	1	11/16/22	11/17/22	
	Project Name: Project Numbe Project Manage Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         RDX           Project Number:         0102           Project Manager:         Ashl           Project Manager:         Ashl           SS06A-0'         E211081-14           Result         Eeporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           80.6 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           ND         50.0           ND         50.0           ND         50.0	Project Number:       01058-0007         Project Manager:       Ashley Govengo         SS06A-0'       E211081-14         E211081-14       Dilution         Result       Limit       Dilution         mg/kg       mg/kg       Analys         ND       0.0250       1         ND       20.0       1         Mg/kg       mg/kg       Analys         ND       20.0       1         MD       25.0       1         ND       25.0       1         ND       50.0       1         ND       50.0       1         ND       50.0       1         ND       50.0	Image: Project Name: Number: 01058-0007         Project Namager: Ashley Giovengo         SS06A-0'         SS06A-0'         E211081-14         Result       Dilution       Prepared         Result       Dilution       Prepared         MD       0.0250       1       11/16/22         ND       0.0250       1       11/16/22         MD       20.0       1       11/16/22         MD       20.0       1       11/16/22         MD       20.0       1       11/16/22         MD       25.0       1       11/16/22         ND       25.0       1       11/16/22	Project Name:         RDX 17 #002           Project Number:         01058-0007           Project Manager:         Ashley Giovengo           SS06A-0'         SS06A-0'           E211081-14         SS06A-0'           Result         Dilution         Prepared         Analyzed           M2         M2/4         Analyzed         Manager           Result         Dilution         Prepared         Analyzed           MD         0.0250         1         11/16/22         11/18/22           ND         0.0500         1         11/16/22         11/18/22           ND         0.0250         1         11/16/22         11/18/22           ND         20.0         1         11/16/22         11/18/22           ND         20.0         1         11/16/22         11/18/22           MD         20.0         1         11/16/22



	3	ample D	ลเล			
Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	oer: 010	58-0007		Reported:	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		SS07-0'				
		E211081-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	t: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Toluene	ND	0.0250	1	11/16/22	11/18/22	
p-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Fotal Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.4 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		111 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: RAS		Batch: 2247039
Chloride	588	40.0	2	11/16/22	11/17/22	



	5	ampie D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbo Project Manag	er: 0103	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 11/20/2022 1:49:02PM
		SS08-1'				
		E211081-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
Foluene	ND	0.0250	1	11/16/22	11/18/22	
p-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Fotal Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.0 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Gurrogate: n-Nonane		112 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2247039
Chloride	87.1	20.0	1	11/16/22	11/17/22	



	b	ample D	ala				
Devon Energy - Carlsbad	Project Name	: RD2	K 17 #002				
6488 7 Rivers Hwy	Project Numb	oer: 0103	58-0007			Reported:	
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM	
		BG01-0'					
		E211081-17					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2247044	
Benzene	ND	0.0250	1	11/16/22	11/18/22		
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22		
Toluene	ND	0.0250	1	11/16/22	11/18/22		
o-Xylene	ND	0.0250	1	11/16/22	11/18/22		
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22		
Fotal Xylenes	ND	0.0250	1	11/16/22	11/18/22		
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/16/22	11/18/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2247044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.0 %	70-130	11/16/22	11/18/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: RAS		Batch: 2247031		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22		
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22		
Surrogate: n-Nonane		111 %	50-200	11/16/22	11/18/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2247039	
Chloride	ND	20.0	1	11/16/22	11/17/22		



	5	ample D	ala			
Devon Energy - Carlsbad	Project Name	RD2	K 17 #002			
6488 7 Rivers Hwy	Project Numb	ber: 0103	58-0007		Reported:	
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			11/20/2022 1:49:02PM
		BG01-1'				
		E211081-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Benzene	ND	0.0250	1	11/16/22	11/18/22	
Ethylbenzene	ND	0.0250	1	11/16/22	11/18/22	
<b>`</b> oluene	ND	0.0250	1	11/16/22	11/18/22	
o-Xylene	ND	0.0250	1	11/16/22	11/18/22	
o,m-Xylene	ND	0.0500	1	11/16/22	11/18/22	
Total Xylenes	ND	0.0250	1	11/16/22	11/18/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247044
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/22	11/18/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		81.4 %	70-130	11/16/22	11/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: RAS		Batch: 2247031	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/22	11/18/22	
Dil Range Organics (C28-C36)	ND	50.0	1	11/16/22	11/18/22	
Surrogate: n-Nonane		112 %	50-200	11/16/22	11/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2247039
Chloride	ND	20.0	1	11/16/22	11/17/22	



#### *Received by OCD: 3/21/2023 9:13:35 AM*

## QC Summary Data

Davian Enamory, Couldhad		D : (N	п	DV 17 #002					
Devon Energy - Carlsbad		Project Name:		DX 17 #002					Reported:
6488 7 Rivers Hwy		Project Number:		1058-0007					
Artesia NM, 88210		Project Manager:	А	shley Gioveng	go				11/20/2022 1:49:02PM
	Volatile Organics by EPA 8021B								Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2247044-BLK1)							Prepared: 1	1/16/22 A	Analyzed: 11/17/22
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	8.11		8.00		101	70-130			
LCS (2247044-BS1)							Prepared: 1	1/16/22 A	Analyzed: 11/17/22
Benzene	5.98	0.0250	5.00		120	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.7	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
p-Xylene	4.70	0.0250	5.00		94.1	70-130			
p,m-Xylene	9.43	0.0500	10.0		94.3	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			
Matrix Spike (2247044-MS1)				Source:	E211081-	03	Prepared: 1	1/16/22 A	Analyzed: 11/17/22
Benzene	6.37	0.0250	5.00	ND	127	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133			
Toluene	5.32	0.0250	5.00	ND	106	61-130			
p-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			
Matrix Spike Dup (2247044-MSD1)				Source:	E211081-	03	Prepared: 1	1/16/22 A	Analyzed: 11/17/22
Benzene	6.05	0.0250	5.00	ND	121	54-133	5.16	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	5.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	5.04	20	
o-Xylene	4.76	0.0250	5.00	ND	95.2	63-131	5.05	20	
p,m-Xylene	9.56	0.0500	10.0	ND	95.6	63-131	5.07	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131	5.06	20	
Surrogate: 4-Bromochlorobenzene-PID	8.42	0.0230	8.00	nD	105	70-130	5.00	20	


# **QC Summary Data**

		QU D	u1111116	ii y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Giovengo	,				<b>Reported:</b> 11/20/2022 1:49:02PM
	No	nhalogenated C		by EPA 801	5D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ilig/kg	ilig/kg	ilig/kg	ilig/kg	70	70	70	70	Inotes
Blank (2247044-BLK1)							Prepared: 1	1/16/22 A	nalyzed: 11/17/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.7	70-130			
LCS (2247044-BS2)							Prepared: 1	1/16/22 A	nalyzed: 11/17/22
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		84.0	70-130			
Matrix Spike (2247044-MS2)				Source: E	211081-0	03	Prepared: 1	1/16/22 A	nalyzed: 11/17/22
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			
Matrix Spike Dup (2247044-MSD2)				Source: E	211081-0	03	Prepared: 1	1/16/22 A	nalyzed: 11/17/22
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.8	70-130			

# **QC Summary Data**

		QC S	uIIIIII	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	C	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 11/20/2022 1:49:02PM
	Nonh	alogenated Org	anics by	<b>EPA 8015D</b>	- DRO	/ORO			Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2247031-BLK1)							Prepared: 1	1/16/22 A	Analyzed: 11/17/22
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			
LCS (2247031-BS1)							Prepared: 1	1/16/22 A	Analyzed: 11/17/22
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			
Matrix Spike (2247031-MS1)				Source: E	211081-	04	Prepared: 1	1/16/22 A	Analyzed: 11/18/22
Diesel Range Organics (C10-C28)	916	50.0	250	517	159	38-132			M2
Surrogate: n-Nonane	45.6		50.0		91.2	50-200			
Matrix Spike Dup (2247031-MSD1)				Source: E	211081-	04	Prepared: 1	1/16/22 A	Analyzed: 11/18/22
Diesel Range Organics (C10-C28)	784	50.0	250	517	107	38-132	15.5	20	
Surrogate: n-Nonane	48.9		50.0		97.8	50-200			



# **QC Summary Data**

Devon Energy - Carlsbad		Project Name:		DX 17 #002					Reported:	
6488 7 Rivers Hwy		Project Number:		1058-0007						
Artesia NM, 88210		Project Manager	: A	Ashley Gioveng	go				11/20/2022 1:49:021	PM
		Anions	by EPA	300.0/9056	4				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2247039-BLK1)							Prepared:	11/16/22	Analyzed: 11/17/22	
Chloride	ND	20.0								
LCS (2247039-BS1)							Prepared:	11/16/22	Analyzed: 11/17/22	
Chloride	253	20.0	250		101	90-110				
Matrix Spike (2247039-MS1)				Source:	E211081-0	)1	Prepared:	11/16/22	Analyzed: 11/17/22	
Chloride	360	20.0	250	104	102	80-120				
Matrix Spike Dup (2247039-MSD1)				Source:	E211081-0	)1	Prepared:	11/16/22	Analyzed: 11/17/22	
Chloride	338	20.0	250	104	93.4	80-120	6.22	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.



Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/22 13:49

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.

Reproject Information

Page \_\_\_\_\_ of \_\_\_\_ Receive

Project: RI Project Ma Address: City, State, Phone: Email: as	anager: A				Attention: Jim Raley		Bill To		Lab Use Only					TAT				EPA Program		
Address: City, State, Phone:		shley Gid					Lab	WO#	+		Job N	lumbe	er	1D	2D	3D	Star	ndard	CWA	SDWA
City, State, Phone:	1224 Star				Address: 5315 Buena Vista Dr		EZ	2110	36	1	OC	28-0	F30				1-12	х	1	
Phone:					City, State, Zip: Calsbad, NM 882	20				- 22	Analys	sis and	Metho	d						RCRA
			A 88220		Phone: 575-689-7597				-											1
Email: as	505-382-3				Email: jim.raley@dvn.com		015	8015										_	State	
and the second se		engo@w	escomino	c.com			by 8		021	60	0	0.00		WN			N	IM CO	UT AZ	TX
Report due			-	J		1	ORO	ORO	oy 80	y 82	\$ 601	de 3(			TX		-	×	0-01-01	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
11:30 1	11/10/22	Soil	1 Jar		SS01 - 2'	1								x						
13:10 1	11/10/22	Soil	1 Jar		SS01 - 4'	2								x						
11:11 1	11/11/22	Soil	1 Jar		SS01 - 6'	3								x						
14:27 1	11/11/22	Soil	1 Jar		SS01 - 8'	Y								x						
15:26 1	11/11/22	Soil	1 Jar		SS01 - 10'	5								x						
13:25 1	11/10/22	Soil	1 Jar		SS02 - 2'	10								x						
13:32 1	11/10/22	Soil	1 Jar		SS02 - 4'	Ĩ	1.11							x						
11:25 1	11/11/22	Soil	1 Jar		SS02 - 6'	8								x						
14:36 1	11/11/22	Soil	1 Jar		SS02 - 8'	9								x						
15:05 1	11/11/22	Soil	1 Jar		SS02 - 10'	10								x						
Additional israel.estre				, Please CC: col	e.burton@wescominc.com, shar.harv	ester@wesc	omir	nc.com	m, jiı	m.ral	ey@c	lvn.co	om, ash	ley.g	iove	ngo@	wesco	ominc.co	om,	
I, (field sampler	er), attest to th	ne validity a	nd authentic	ity of this sample. I ar be grounds for lega	n aware that tampering with or intentionally mislabe l action. <u>Sampled by:</u>	lling the sample l	ocation	1,			and the second second							ice the day t bsequent da	hey are sample /s.	≥d or receive
Relinquished		ire)	Date 11-	14-247:	Beceived by: (Signature)	- Date //./4.	22	Time	90	3	Rece	ived c	n ice:		ab Us	se On I	ly			
Relinquished	~40	r	Date	15.22 9	05 Received by: (Signature)	Date 15	22	Time	5	8				T2	)		I	3		
Relinquished	d by: (Signatu	ire)	Date	Time	Received by: (Signature)	Date		Time	0		1	Temp	°C	+						
Sample Matrix:	c: S - Soil, Sd - S	Solid, Sg - Sl	udge, A - Aqu	Jeous, O - Other		Containe	Туре	:g-g	glass,	_				er gla	ss, v -	VOA				
					less other arrangements are made. Hazardou:	s samples will b	e retu	rned to	o clier	nt or c	lispose	d of at					port for	the analy	sis of the al	oove
samples is ap	pplicable only	y to those	samples red	ceived by the labora	tory with this COC. The liability of the laborato	ry is limited to	the an	nount	paid f	or on	the rep	ort.	_	-	_	-				

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Page	6	of	
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Project li	Project Information					Chain of Custody												Page 2	_ of _ 2
Client:	Devon				Bill To		1	-	Ŀ	ah U	se On	lv.		-	-	ТА	т	FPAR	rogram
	RDX 17 #00	)2			Attention: Jim Raley		Lah	WO				Numbe	r	1D	20	3D	Standard	CWA	SDWA
	Aanager: A		ovengo		Address: 5315 Buena Vist	a Dr	F	211	(R	1		581			20	1.00	X	CWA	JUWA
	1224 Sta				City, State, Zip: Calsbad, N			-11	00			sis and			-		1		RCRA
	e, Zip: Car				Phone: 575-689-7597		-	1	1	1	I		Incentor	1	-	T	-	-	HCHA
Phone:	505-382-				Email: jim.raley@dvn.com	2	- 5	5										State	<u>.</u>
	ashley.giov		escomin	c com			8015	8015	-			0					NM CC		TTV
Report d		cher	rescontinit.				þ	yd (	3021	260	010	Chloride 300.0		MM	×				
Time	Date		No. of	1		Lab	DRO/ORO	GRO/DRO by	BTEX by 802:	VOC by 8260	Metals 6010	ide					×		
Sampled	Sampled	Matrix	Containers	Sample ID		Numbe	RO/	RO/	TEX	001	Aeta	hlor	10.00	BGDOC	BGDOC			Remarks	1
14:14	11/11/22	Soil	1 Jar		SS03 - 2'			0	<u> </u>	>	2	0		x	m				
11:18	11/11/22	Soil	1 Jar		SS04B - 0'	17								x					
13:31	11/11/22	Soil	1 Jar		SS05A - 0'	13								x					
10:50	11/11/22	Soil	1 Jar		SS06A - 0'	14								x					
12:06	11/11/22	Soil	1 Jar		SS07 - 0'	15								x					
14:24	11/11/22	Soil	1 Jar		SS08 - 1'	1(0								x					
11:30	11/11/22	Soil	1 Jar		BG01 - 0'	F								x					
11:34	11/11/22	Soil	1 Jar		BG01 - 1'	18								x					
israel.es	rella@wes	ominc.c	om		ble.burton@wescominc.com, sh				m, ji	m.ra				1	<u></u>			1.111	
date or time	of collection is	considered	fraud and ma	ay be grounds for le			locatio			_	1.000			above	0 but le	ss than 6	eived on ice the day °C on subsequent d		led or received
	h RA			19-22 7	:030m 200	Date 11.14.	22	Time	90	3	Rece	eived o	n ice:		N Y	se Onl	y		
0×	ed by: (Signatu	in		15.22 4	305 alver	Ded IVE	22	Time	55	58	<u>T1</u>			<u>T2</u>			<u>T3</u>		
Reinquish	ed by: (Signatu	ire)	Date	Time	Received by: (Signature)	Date		Time		4	AVG	Temp	°c_L	+					
				ueous, <b>O</b> - Other		Containe													
					Inless other arrangements are made. Fratory with this COC. The liability of the								he client	t expe	nse.	The rep	ort for the ana	ysis of the a	bove
										(	M	e	er	1	V	i I	ot	e	cł

#### **Envirotech Analytical Laboratory**

### Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad	Date Received:	11/15/22	15:58	Work Order ID:	E211081
Phone:	(505) 382-1211	Date Logged In:	11/15/22	16:06	Logged In By:	Alexa Michaels
Email:		Due Date:	11/21/22	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	n the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
12. Was tl	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4°	С			
	<u>Container</u>	·				
	queous VOC samples present?		No			
	/OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are r	on-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample container	rs collected?	Yes			
Field La	<u>bel</u>					
	field sample labels filled out with the minimum inform	nation:				
	ample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes Yes			
	Preservation		105			
	the COC or field labels indicate the samples were pres	served?	No			
	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved met	tals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase	?	No			
	s, does the COC specify which phase(s) is to be analyze		NA			
27. If yes						
•	ract Laboratory					
Subcont	ract Laboratory amples required to get sent to a subcontract laboratory	?	No			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RD2

RDX 17 #002

Work Order: E301105

Job Number: 01058-0007

Received: 1/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/24/23

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: 1/24/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301105 Date Received: 1/20/2023 7:00:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/20/2023 7:00:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

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

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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 Sum	mary		
Devon Energy - Carlsbad		Project Name:	RDX 17 #002		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		Reporteut
Artesia NM, 88210		Project Manager:	Ashley Giovengo		01/24/23 09:07
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 12'	E301105-01A	Soil	01/17/23	01/20/23	Glass Jar, 2 oz.
SS01 - 12' SS01 - 14'	E301105-01A E301105-02A	Soil Soil	01/17/23 01/18/23	01/20/23 01/20/23	Glass Jar, 2 oz. Glass Jar, 2 oz.
					,



		ampic D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010	X 17 #002 58-0007 ley Giovenge	D		<b>Reported:</b> 1/24/2023 9:07:04AM
		SS01 - 12'				
		E301105-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2303066
Benzene	ND	0.0250	1	01/20/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/20/23	01/20/23	
Toluene	ND	0.0250	1	01/20/23	01/20/23	
p-Xylene	ND	0.0250	1	01/20/23	01/20/23	
o,m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
Fotal Xylenes	ND	0.0250	1	01/20/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: SL		Batch: 2303066
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	analyst: KM		Batch: 2303065
Diesel Range Organics (C10-C28)	94.4	25.0	1	01/20/23	01/23/23	
Oil Range Organics (C28-C36)	80.2	50.0	1	01/20/23	01/23/23	
Surrogate: n-Nonane		86.6 %	50-200	01/20/23	01/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	analyst: BA		Batch: 2303081
Chloride	847	40.0	2	01/20/23	01/21/23	



	Da	ample D	ata			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo	1/24/2023 9:07:04AM		
		SS01 - 14'				
		E301105-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: SL		Batch: 2303066
Benzene	ND	0.0250	1	01/20/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/20/23	01/20/23	
Toluene	ND	0.0250	1	01/20/23	01/20/23	
p-Xylene	ND	0.0250	1	01/20/23	01/20/23	
o,m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
Fotal Xylenes	ND	0.0250	1	01/20/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2303066
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2303065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/20/23	01/20/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/20/23	01/20/23	
Surrogate: n-Nonane		84.6 %	50-200	01/20/23	01/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2303081
Chloride	1080	40.0	2	01/20/23	01/21/23	



	25	imple D	ลเล			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			1/24/2023 9:07:04AM
		SS02 - 12'				
	]	E301105-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	t: SL		Batch: 2303066
Benzene	ND	0.0250	1	01/20/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/20/23	01/20/23	
Toluene	ND	0.0250	1	01/20/23	01/20/23	
p-Xylene	ND	0.0250	1	01/20/23	01/20/23	
o,m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
Fotal Xylenes	ND	0.0250	1	01/20/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: SL		Batch: 2303066
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: KM		Batch: 2303065
Diesel Range Organics (C10-C28)	ND	25.0	1	01/20/23	01/20/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/20/23	01/20/23	
Surrogate: n-Nonane		84.4 %	50-200	01/20/23	01/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: BA		Batch: 2303081
Chloride	4630	400	20	01/20/23	01/21/23	



	Di	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Number	er: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/24/2023 9:07:04AM
		SS02 - 14'				
		E301105-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2303066
enzene	ND	0.0250	1	01/20/23	01/20/23	
thylbenzene	ND	0.0250	1	01/20/23	01/20/23	
oluene	ND	0.0250	1	01/20/23	01/20/23	
Xylene	ND	0.0250	1	01/20/23	01/20/23	
m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
otal Xylenes	ND	0.0250	1	01/20/23	01/20/23	
urrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/20/23	01/20/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2303066
asoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	01/20/23	01/20/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2303065
iesel Range Organics (C10-C28)	649	125	5	01/20/23	01/20/23	
il Range Organics (C28-C36)	465	250	5	01/20/23	01/20/23	
urrogate: n-Nonane		91.2 %	50-200	01/20/23	01/20/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2303081
hloride	6310	200	10	01/20/23	01/21/23	



# **QC Summary Data**

		2000		ing Date	~				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	0	DX 17 #002 1058-0007					<b>Reported:</b>
Artesia NM, 88210		Project Manager:	А	shley Gioveng	0				1/24/2023 9:07:04AM
		Volatile Or	rganics	by EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303066-BLK1)						]	Prepared: 0	1/20/23 A	analyzed: 01/20/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			
LCS (2303066-BS1)						1	Prepared: 0	1/20/23 A	analyzed: 01/20/23
Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.59	0.0250	5.00		112	70-130			
Foluene	5.62	0.0250	5.00		112	70-130			
p-Xylene	5.74	0.0250	5.00		115	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	17.1	0.0250	15.0		114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	70-130			
LCS Dup (2303066-BSD1)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Benzene	4.92	0.0250	5.00		98.4	70-130	5.44	20	
Ethylbenzene	5.29	0.0250	5.00		106	70-130	5.58	20	
Toluene	5.33	0.0250	5.00		107	70-130	5.43	20	
p-Xylene	5.43	0.0250	5.00		109	70-130	5.55	20	
p,m-Xylene	10.7	0.0500	10.0		107	70-130	5.54	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	5.54	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



# **QC Summary Data**

		QC L	Jumm	ary Dat	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number Project Manage	: 0	RDX 17 #002 01058-0007 Ashley Gioveng	go				<b>Reported:</b> 1/24/2023 9:07:04AM
	No	nhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303066-BLK1)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			
LCS (2303066-BS2)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			
LCS Dup (2303066-BSD2)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130	11.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			
roguie. 1-Chioro-+-juorobenzene-F1D	8.05		0.00		100	,0-150			

# QC Summary Data

		QC BI		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	C	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/24/2023 9:07:04AM
	Nonh	alogenated Orga	anics by	v EPA 8015D -	DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2303065-BLK1)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Diesel Range Organics (C10-C28)	ND	25.0							-
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			
LCS (2303065-BS1)							Prepared: 0	1/20/23 A	analyzed: 01/20/23
Diesel Range Organics (C10-C28)	251	25.0	250		101	38-132			
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			
Matrix Spike (2303065-MS1)				Source: E.	301105-	02	Prepared: 0	1/20/23 A	analyzed: 01/20/23
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			
Matrix Spike Dup (2303065-MSD1)				Source: E.	301105-	02	Prepared: 0	1/20/23 A	analyzed: 01/20/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	3.70	20	
Surrogate: n-Nonane	33.5		50.0		67.0	50-200			



# **QC Summary Data**

		QU D	umm	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/24/2023 9:07:04AM
		Anions	by EPA	300.0/9056A					Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2303081-BLK1)	ND	20.0					Prepared: 0	1/20/23	Analyzed: 01/21/23
LCS (2303081-BS1)							Prepared: 0	1/20/23	Analyzed: 01/21/23
Chloride Matrix Spike (2303081-MS1)	249	20.0	250	Source: E	99.7 301104-(	90-110 <b>)1</b>	Prepared: 0	1/20/23	Analyzed: 01/21/23
Chloride	5380	400	250	5740	NR	80-120			M4
Matrix Spike Dup (2303081-MSD1)				Source: E	301104-0	)1	Prepared: 0	1/20/23	Analyzed: 01/21/23
Chloride	5730	400	250	5740	NR	80-120	6.39	20	M4

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.



	2 Unintion		
Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/24/23 09:07

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



ent: Dev	/on				Bill To				Lab	Use	e Onl	V				TAT		EPA P	rogram
ject: RDX	K 17 #002	2			Attention: Jim Raley		Lab	WO#				lumber		1D	2D		Standard	CWA	SDWA
ject Mana	ager: Asl	hley Giov	rengo		Address: 5315 Buena Vista Dr		E	301	105		DID	58-000	77		5 1		х		
dress: 1	224 Stan	dpipe Rd			City, State, Zip: Calsbad, NM 8	8220				F	Analys	sis and Me	thod	1.1					RCRA
y, State, Z	ip: Carls	bad, NM	88220		Phone: 575-689-7597		1000				-								
one: 50					Email: jim.raley@dvn.com		15	15										State	
ail: ashl		ngo@we	scominc.	com			y 80	y 80	57	0	0	0.0		MN			NM CO	UT AZ	TX
port due b	oy:						ROF	ROF	y 80	826	601	e 30			¥		×		1.1
Time Date	e Sampled	Matrix	No. of Containers	Sample ID		Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
	/17/23				SS01 - 12'	Number		0	â	ž	Σ	5			B				
		Soil	1 Jar		0001 12	1					-	-		х					
0:01 1/	/18/23	Soil	1 Jar		SS01 - 14'	2								х					
0:15 1/	/17/23	Soil	1 Jar		SS02 - 12'	3								x	è li				
9:45 1/	/18/23	Soil	1 Jar		SS02 - 14'	4								x					
						1			_	_									_
				1		1													
ditional Ir ael.estrell				Please CC: cole.	burton@wescominc.com, shar.ha	rvester@wesco	omino	.com	, jim.	raley	y@dv	/n.com, a	shle	y.gio	veng	o@we	scominc.co	m,	
				y of this sample. I am be grounds for legal	aware that tampering with or intentionally mis action. Sampled by:	labelling the sample	location	n,									ed on ice the day t on subsequent da		led or receiv
			2020	52312	30 Received by: (Signature)	Date 	23	Time 12	130	>	Rece	ived on i	ce:	La	D Us	e Only	1.000		
inquished by	le C	encel	Date	19:23 17	15 Received by: (Signature)	Date 1/9-		Time 77			<u>T1</u>			<u>T2</u>			<u>T3</u>		
inquished by	. /	en	Date /- (	19-23 Z3	or authorit	to 1/20/	23	Time <b>7</b> ?	00		AVG	Temp °C	4						
				eous, O - Other								stic, ag -							
					ess other arrangements are made. Hazarc cory with this COC. The liability of the labor								client	t expe	nse.	The repo	ort for the anal	ysis of the	above

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	Devon Energy - Carlsbad	Date Received:	01/20/23 0	7:00	Work Order ID:	E301105
Phone:	(505) 382-1211	Date Logged In:	01/19/23 1	5:34	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	01/26/23 1	7:00 (4 day TAT)		
<u>Chain o</u>	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location mate	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssior		Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did tl	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample t	emperature: <u>4°</u>	<u>C</u>			
Sample	Container					
-	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16 1.1	e head space less than 6-8 mm (pea sized or less)?		NA			
16. Is th	e neau space less than 0-8 min (pea sized of less)?		1421			
	a trip blank (TB) included for VOC analyses?		NA			
17. Was	· · · · · ·					
17. Was 18. Are	a trip blank (TB) included for VOC analyses?	ers collected?	NA			
17. Was 18. Are	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container	ers collected?	NA Yes			
17. Was 18. Are 19. Is the <u>Field La</u> 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor		NA Yes Yes			
<ul> <li>17. Was</li> <li>18. Are 1</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ul>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID?		NA Yes Yes Yes			
<ol> <li>Was</li> <li>Are</li> <li>Is the</li> <li>Field La</li> <li>Were</li> </ol>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected?		NA Yes Yes Yes Yes			
<ul> <li>17. Was</li> <li>18. Are</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ul>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name?		NA Yes Yes Yes			
17. Was 18. Are 19. Is the Field La 20. Were Sample	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	mation:	NA Yes Yes Yes No			
17. Was 18. Are 19. Is the Field La 20. Were Sample 21. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name?	mation:	NA Yes Yes Yes Yes			
17. Was 18. Are 19. Is the <b>Field La</b> 20. Were 20. Were 21. Doe: 22. Are	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre	mation: eserved?	NA Yes Yes Yes No			
17. Was 18. Are 19. Is the Field La 20. Were 20. Were 21. Doe: 22. Are 24. Is lal	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre sample(s) correctly preserved? b filteration required and/or requested for dissolved me	mation: eserved?	NA Yes Yes Yes No No			
17. Was 18. Are 19. Is the Field La 20. Were 20. Were 21. Doe: 22. Are 24. Is lai Multiph	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre sample(s) correctly preserved? b filteration required and/or requested for dissolved me <u>base Sample Matrix</u>	mation: eserved? etals?	NA Yes Yes Yes No No NA No			
17. Was 18. Are 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 24. Is lai Multiph 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre sample(s) correctly preserved? b filteration required and/or requested for dissolved me <u>nase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase	mation: eserved? etals? e?	NA Yes Yes Yes No No NA No			
17. Was 18. Are 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 24. Is lai Multiph 26. Does 27. If ye	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre- sample(s) correctly preserved? b filteration required and/or requested for dissolved me- tase Sample Matrix s the sample have more than one phase, i.e., multiphase is, does the COC specify which phase(s) is to be analyzed	mation: eserved? etals? e?	NA Yes Yes Yes No No NA No			
17. Was 18. Are 19. Is the Field Ls 20. Were 20. Were 21. Does 22. Are 24. Is lai Multiph 26. Does 27. If ye	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container abel e field sample labels filled out with the minimum infor Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were pre sample(s) correctly preserved? b filteration required and/or requested for dissolved me <u>nase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase	mation: eserved? etals? e? zed?	NA Yes Yes Yes No No NA No			

- (

Date



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

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order: E301116

Job Number: 01058-0007

Received: 1/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/26/23

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: 1/26/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301116 Date Received: 1/23/2023 7:30:00AM

Ashley Giovengo,



Page 96 of 244

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2023 7:30:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

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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 Summarv

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		Sample Sum	mary		
Devon Energy - Carlsbad		Project Name:	RDX 17 #002		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		reporteur
Artesia NM, 88210		Project Manager:	Ashley Giovengo		01/26/23 12:31
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 4'	E301116-01A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF02 - 4'	E301116-02A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF03 - 4'	E301116-03A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF04 - 4'	E301116-04A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF05 - 4'	E301116-05A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF06 - 4'	E301116-06A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF07 - 4'	E301116-07A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF08 - 4'	E301116-08A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF09 - 4'	E301116-09A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.
CONF10 - 4'	E301116-10A	Soil	01/19/23	01/23/23	Glass Jar, 2 oz.



		ampic D				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 0103	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/26/2023 12:31:37PM
	(	CONF01 - 4'				
		E301116-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/23/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/23/23	
Toluene	ND	0.0250	1	01/23/23	01/23/23	
o-Xylene	ND	0.0250	1	01/23/23	01/23/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/23/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/23/23	
urrogate: 4-Bromochlorobenzene-PID		105 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/23/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2304003
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/23/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/23/23	
Surrogate: n-Nonane		93.0 %	50-200	01/23/23	01/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2304005
Chloride	135	100	5	01/23/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010:	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/26/2023 12:31:37PM
	(	CONF02 - 4'				
		E301116-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/23/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/23/23	
Toluene	ND	0.0250	1	01/23/23	01/23/23	
p-Xylene	ND	0.0250	1	01/23/23	01/23/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/23/23	
Fotal Xylenes	ND	0.0250	1	01/23/23	01/23/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2304003		
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/23/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/23/23	
Surrogate: n-Nonane		91.6 %	50-200	01/23/23	01/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304005
Chloride	ND	100	5	01/23/23	01/24/23	



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010:	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/26/2023 12:31:37PM
	(	CONF03 - 4'				
		E301116-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/23/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/23/23	
Toluene	ND	0.0250	1	01/23/23	01/23/23	
p-Xylene	ND	0.0250	1	01/23/23	01/23/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/23/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/23/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Analyst: IY			Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2304003		
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		97.8 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2304005
Chloride	ND	100	5	01/23/23	01/24/23	



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			1/26/2023 12:31:37PM
	0	CONF04 - 4'				
		E301116-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/23/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/23/23	
Toluene	ND	0.0250	1	01/23/23	01/23/23	
o-Xylene	ND	0.0250	1	01/23/23	01/23/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/23/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/23/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Batch: 2304004		
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2304003		
Diesel Range Organics (C10-C28)	65.7	25.0	1	01/23/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		86.0 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2304005
Chloride	130	100	5	01/23/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbo Project Manag	er: 010:	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/26/2023 12:31:37PM
	(	CONF05 - 4'				
		E301116-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/23/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/23/23	
Toluene	ND	0.0250	1	01/23/23	01/23/23	
p-Xylene	ND	0.0250	1	01/23/23	01/23/23	
p,m-Xylene	ND	0.0500	1	01/23/23	01/23/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/23/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	01/23/23	01/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: KM			Batch: 2304003
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		95.3 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2304005
Chloride	150	20.0	1	01/23/23	01/23/23	



go		<b>Reported:</b> 1/26/2023 12:31:37PM	
ation Prepared	Analyzed	Notes	
Analyst: IY		Batch: 2304004	
1 01/23/23	01/23/23		
1 01/23/23	01/23/23		
1 01/23/23	01/23/23		
1 01/23/23	01/23/23		
1 01/23/23	01/23/23		
1 01/23/23	01/23/23		
01/23/23	01/23/23		
Analyst: IY	Batch: 2304004		
1 01/23/23	01/23/23		
01/23/23	01/23/23		
g/kg Analyst: KM			
1 01/23/23	01/25/23		
1 01/23/23	01/25/23		
01/23/23	01/25/23		
Analyst: BA		Batch: 2304005	
0 01/23/23	01/23/23		
	Analyst: IY         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         Analyst: IY       01/23/23         Analyst: KM       01/23/23         Analyst: KM       01/23/23         1       01/23/23         Analyst: KM       01/23/23         Analyst: KM       01/23/23         Analyst: BA       01/23/23	Analyst: IY         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         01/23/23       01/23/23         1       01/23/23         01/23/23       01/23/23         Analyst: IY       I         1       01/23/23         01/23/23       01/23/23         Analyst: KM       I         1       01/23/23         01/23/23       01/25/23         1       01/23/23         01/23/23       01/25/23         1       01/23/23         01/23/23       01/25/23         1       01/23/23         01/23/23       01/25/23         01/23/23       01/25/23         01/23/23       01/25/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Number Project Manage	r: 010:	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/26/2023 12:31:37PM
	С	ONF07 - 4'				
	I	E301116-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/24/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/24/23	
Toluene	ND	0.0250	1	01/23/23	01/24/23	
p-Xylene	ND	0.0250	1	01/23/23	01/24/23	
p,m-Xylene	ND	0.0500	1	01/23/23	01/24/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/24/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2304003		
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		101 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304005
Chloride	41.3	20.0	1	01/23/23	01/23/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/26/2023 12:31:37PM
	0	CONF08 - 4'				
		E301116-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/24/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/24/23	
Toluene	ND	0.0250	1	01/23/23	01/24/23	
p-Xylene	ND	0.0250	1	01/23/23	01/24/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/24/23	
Fotal Xylenes	ND	0.0250	1	01/23/23	01/24/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2304004
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2304003		
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		93.8 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304005
Chloride	105	20.0	1	01/23/23	01/23/23	



02 7 vengo			Reported:
			Reported:
vengo			porteut
			1/26/2023 12:31:37PM
Dilution	Prepared	Analyzed	Notes
Analyst:	IY		Batch: 2304004
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
0	01/23/23	01/24/23	
Analyst:	Batch: 2304004		
1	01/23/23	01/24/23	
0	01/23/23	01/24/23	
mg/kg Analyst: KM			
1	01/23/23	01/24/23	
1	01/23/23	01/24/23	
0	01/23/23	01/24/23	
Analyst:	BA		Batch: 2304005
10	01/23/23	01/23/23	
3	Analyst: 1 1 1 1 1 1 1 1 30 Analyst: 1 30 Analyst: 1 1 00 Analyst:	Analyst: IY         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         1       01/23/23         30       01/23/23         Analyst: IY       1         1       01/23/23         30       01/23/23         Analyst: KM       1         1       01/23/23         1       01/23/23         00       01/23/23         Analyst: BA	Analyst: IY           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           30         01/23/23         01/24/23           Analyst: IY         1         01/23/23         01/24/23           30         01/23/23         01/24/23           30         01/23/23         01/24/23           30         01/23/23         01/24/23           30         01/23/23         01/24/23           30         01/23/23         01/24/23           30         01/23/23         01/24/23           1         01/23/23         01/24/23           1         01/23/23         01/24/23           00         01/23/23         01/24/23           00         01/23/23         01/24/23           01/23/23         01/24/23



	56	imple D	ata			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007	Reported:		
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			1/26/2023 12:31:37PM
	0	CONF10 - 4'				
		E301116-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2304004
Benzene	ND	0.0250	1	01/23/23	01/24/23	
Ethylbenzene	ND	0.0250	1	01/23/23	01/24/23	
Toluene	ND	0.0250	1	01/23/23	01/24/23	
p-Xylene	ND	0.0250	1	01/23/23	01/24/23	
o,m-Xylene	ND	0.0500	1	01/23/23	01/24/23	
Total Xylenes	ND	0.0250	1	01/23/23	01/24/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Batch: 2304004		
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/23	01/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	01/23/23	01/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2304003		
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/23/23	01/24/23	
Surrogate: n-Nonane		101 %	50-200	01/23/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2304005
Chloride	197	40.0	2	01/23/23	01/23/23	


# QC Summary Data

		QC D		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	DX 17 #002 1058-0007 .shley Gioveng	30				<b>Reported:</b> 1/26/2023 12:31:37PM
		Volatile O	rganics	by EPA 802	21B				Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304004-BLK1)							Prepared: 0	1/23/23 A	nalyzed: 01/23/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			
LCS (2304004-BS1)							Prepared: 0	1/23/23 A	nalyzed: 01/23/23
Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	5.05	0.0250	5.00		101	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
o,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			
Matrix Spike (2304004-MS1)				Source:	E301116-01		Prepared: 0	1/23/23 A	nalyzed: 01/23/23
Benzene	4.66	0.0250	5.00	ND	93.1	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
p-Xylene	5.19	0.0250	5.00	ND	104	63-131			
o,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			
Matrix Spike Dup (2304004-MSD1)				Source:	E301116-01		Prepared: 0	1/23/23 A	nalyzed: 01/23/23
Benzene	5.19	0.0250	5.00	ND	104	54-133	10.9	20	
Ethylbenzene	5.61	0.0250	5.00	ND	112	61-133	11.0	20	
Foluene	5.64	0.0250	5.00	ND	113	61-130	10.9	20	
p-Xylene	5.77	0.0250	5.00	ND	115	63-131	10.6	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	10.8	20	
Total Xylenes	17.1	0.0250	15.0	ND	114	63-131	10.7	20	
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130			
	0.75								



# **QC Summary Data**

		QC D	u1111116	ii y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Giovengo	)				<b>Reported:</b> 1/26/2023 12:31:37PM
110000 1111, 00210	No	nhalogenated C		, ,		RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304004-BLK1)							Prepared: 0	1/23/23 A	analyzed: 01/23/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			
LCS (2304004-BS2)							Prepared: 0	1/23/23 A	analyzed: 01/23/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			
Matrix Spike (2304004-MS2)				Source: I	E <b>3</b> 01116-0	)1	Prepared: 0	1/23/23 A	nalyzed: 01/23/23
Gasoline Range Organics (C6-C10)	58.2	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			
Matrix Spike Dup (2304004-MSD2)				Source: I	2301116-0	)1	Prepared: 0	1/23/23 A	analyzed: 01/23/23
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	10.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.1	70-130			



# QC Summary Data

		QC DI		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/26/2023 12:31:37PM
	Nonh	alogenated Orga	anics by	y EPA 8015D ·	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304003-BLK1)							Prepared: 0	1/23/23 A	Analyzed: 01/23/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			
LCS (2304003-BS1)							Prepared: 0	1/23/23 A	Analyzed: 01/23/23
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			
Matrix Spike (2304003-MS1)				Source: E.	301116-0	02	Prepared: 0	1/23/23 A	Analyzed: 01/23/23
Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.1	38-132			
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			
Matrix Spike Dup (2304003-MSD1)				Source: E.	301116-0	02	Prepared: 0	1/23/23 A	Analyzed: 01/23/23
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.9	38-132	3.95	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$	••••••		•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	C	RDX 17 #002 )1058-0007 Ashley Gioveng	0				<b>Reported:</b> 1/26/2023 12:31:37PM
		Anions	by EPA	300.0/9056A					Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304005-BLK1)							Prepared: 0	1/23/23	Analyzed: 01/23/23
Chloride	ND	20.0							
LCS (2304005-BS1)							Prepared: 0	1/23/23	Analyzed: 01/23/23
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2304005-MS1)				Source: 1	E301116-0	1	Prepared: 0	1/23/23	Analyzed: 01/24/23
Chloride	338	100	250	135	80.9	80-120			
Matrix Spike Dup (2304005-MSD1)				Source: 1	E301116-0	1	Prepared: 0	1/23/23	Analyzed: 01/24/23
Chloride	345	100	250	135	83.8	80-120	2.13	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.



Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/26/23 12:31

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.



**R**eferoject Information

Page \_\_\_\_\_ of

lient:	Devon				Bill To		1 <sub>4</sub>	-	Lab	Use	Only	1		-	TAT		FPA P	rogram
	RDX 17 #002				Attention: Jim Raley		Lab	WO#		_		umber	1D	2D		Standard	CWA	SDWA
	Aanager: Asl		engo		Address: 5315 Buena Vista Dr		E 30/1Ko Job Number								X	•••••		
ddress:	1224 Stan	dpipe Rd	1		City, State, Zip: Calsbad, NM 8	8220				A	nalysi	s and Method	1					RCRA
ty, Stat	e, Zip: Carls		88220		Phone: 575-689-7597	4												
ione:					Email: jim.raley@dvn.com		015	8015									State	-
	ashley.giove	ngo@we	scominc.	com			by 8	by 8	021	60	10	0.00	MN	×		NM CO	UT AZ	TX
eport d	ue by:		1.1.1.1.1			Lab	ORO	DRO	by 8	oy 82	s 60	de 3		C TX		×		
Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID		Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 802	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC		3 1	Remarks	
3:52	1/19/23	Soil	1 Jar		CONF01 - 4'	1							x					
3:52	1/19/23	Soil	1 Jar		CONF02 - 4'	2							x			1		
.3:54	1/19/23	Soil	1 Jar		CONF03 - 4'	3							x					
13:57	1/19/23	Soil	1 Jar		CONF04 - 4'	4							x					
L3:57	1/19/23	Soil	1 Jar		CONF05 - 4'	5							x					
.4:00	1/19/23	Soil	1 Jar		CONF06 - 4'	6							x					
4:04	1/19/23	Soil	1 Jar		CONF07 - 4'	7							x					
.4:04	1/19/23	Soil	1 Jar	1	CONF08 - 4'	8							x					
4:08	1/19/23	Soil	1 Jar		CONF09 - 4'	9							x					
4:07	1/19/23	Soil	1 Jar		CONF10 - 4'	10						1000	x					
rael.es	trella@weso pler), attest to the	minc.com	<b>m</b> d authenticit		e.burton@wescominc.com, shar.ha m aware that tampering with or intentionally mis I action. Sampled by:				jim.r	Sa	amples	n.com, ashle requiring thermal p nice at an avg temp	reserva	tion mu:	st be receiv	ed on ice the day ti	ney are sampl	led or recei
inquish	ed by: (Signatur	PROA	20 21	.2.2. Time	Bon 91: (11110 41)	Date F20-	73	Time	8	B	Recei	ved on ice:			e Only			
	ed by: (Signatur		Date		30 Received by: (Signature)	Date /-20-		Time	-		1		T2			T3		
-fall	ed by: (Signatur	en l	Date (	z1-23 01	15 my Received by: (sighaturat	2 1/25	23	Time 7:	30		VG 1	emp°C 4	f					
	rix: S - Soil, Sd - S	olid, Sg - Slu	F						ass, p			stic, ag - ambe	er gla	ss, v -	VOA			
					less other arrangements are made. Hazard								-			ort for the analy	sis of the	above

of 244

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	Devon Energy - Carlsbad D	ate Received:	01/23/23	07:30		Work Order ID:	E301116
Phone:	(505) 382-1211 D	ate Logged In:	01/23/23	08:04		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com D	ue Date:	01/27/23	17:00 (4 day TAT)			
<u>Chain o</u>	f 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	Carrier:	Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes			Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>						
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	Cooler						
7. Was a	a sample cooler received?		Yes				
8. If yes,	, was cooler received in good condition?		Yes				
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>				
<u>Sample</u>	<u>Container</u>						
14. Are a	aqueous VOC samples present?		No				
15. Are '	VOC samples collected in VOA Vials?		NA				
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA				
17. Was	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
18. Are 1	e appropriate volume/weight or number of sample containers	s collected?	Yes				
18. Are 1		s collected?	Yes				
<ol> <li>18. Are 1</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ol>	abel e field sample labels filled out with the minimum inform						
<ol> <li>18. Are 1</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> </ol>	abel e field sample labels filled out with the minimum inform Sample ID?		Yes				
18. Are 1 19. Is the Field La 20. Were	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		Yes Yes				
18. Are n 19. Is the Field La 20. Were S I	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		Yes				
18. Are a 19. Is the Field La 20. Were S I C Sample	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation:	Yes Yes Yes				
18. Are n 19. Is the Field La 20. Were S I C Sample 21. Does	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	ation:	Yes Yes				
18. Are n 19. Is the Field La 20. Were 3 1 0 5 5 21. Does 22. Are s	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation: erved?	Yes Yes Yes No				
18. Are 1 19. Is the Field La 20. Were S I C Sample 21. Does 22. Are s 24. Is lat	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ation: erved?	Yes Yes Yes No NA				
18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lat Multiph	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta tase Sample Matrix	ation: erved? ıls?	Yes Yes Yes No NA No				
<ul> <li>18. Are n</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> <li>20. Were</li> <li>21. Does</li> <li>22. Are s</li> <li>24. Is lat</li> <li>Multiph</li> <li>26. Does</li> </ul>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta mase Sample Matrix s the sample have more than one phase, i.e., multiphase?	ation: prved? als?	Yes Yes Yes No No				
18. Are 1 19. Is the Field La 20. Were Sample 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If yet	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta mase Sample Matrix s the sample have more than one phase, i.e., multiphase? is, does the COC specify which phase(s) is to be analyze	ation: prved? als?	Yes Yes Yes No NA No				
<ul> <li>18. Are n</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> <li>20. Were</li> <li>21. Does</li> <li>22. Are s</li> <li>24. Is lat</li> <li>Multiph</li> <li>26. Does</li> <li>27. If yet</li> <li>Subcont</li> </ul>	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>mase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? is, does the COC specify which phase(s) is to be analyze <b>tract Laboratory</b>	ation: erved? ils? d?	Yes Yes No NA No No				
18. Are 1 19. Is the <b>Field La</b> 20. Were 20. Were 21. Does 22. Are 5 24. Is lat <b>Multiph</b> 26. Does 27. If yes <b>Subcont</b> 28. Are 5	abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta mase Sample Matrix s the sample have more than one phase, i.e., multiphase? is, does the COC specify which phase(s) is to be analyze	ation: erved? als? d?	Yes Yes Yes No No	Subcontract La	h. NA		

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



•





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order:	E301118
WORK Order.	

Job Number: 01058-0007

Received: 1/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/30/23

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: 1/30/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301118 Date Received: 1/24/2023 8:10:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/24/2023 8:10:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

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#### **Sample Summary**

Sample Summary										
Devon Energy - Carlsbad		Project Name:	RDX 17 #002		Reported:					
6488 7 Rivers Hwy		Project Number:	01058-0007		•					
Artesia NM, 88210		Project Manager:	Ashley Giovengo		01/30/23 09:48					
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container					
CONF11 - 4'	E301118-01A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF12 - 4'	E301118-02A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF13 - 4'	E301118-03A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF14 - 4'	E301118-04A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF15 - 4'	E301118-05A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF16 - 4'	E301118-06A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF17 - 4'	E301118-07A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
'ONF18 - 4'	E301118-08A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF19 - 4'	E301118-09A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF20 - 4'	E301118-10A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
'ONF21 - 4'	E301118-11A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF22 - 4'	E301118-12A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF23 - 4'	E301118-13A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF24 - 4'	E301118-14A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
'ONF25 - 4'	E301118-15A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
'ONF26 - 4'	E301118-16A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF27 - 4'	E301118-17A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF28 - 4'	E301118-18A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
'ONF29 - 4'	E301118-19A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
CONF30 - 4'	E301118-20A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF31 - 4'	E301118-21A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF32 - 4'	E301118-22A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF33 - 4'	E301118-23A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF34 - 4'	E301118-24A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF35 - 4'	E301118-25A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					
ONF36 - 4'	E301118-26A	Soil	01/20/23	01/24/23	Glass Jar, 2 oz.					



5	r: 010	58-0007			Reported:
Project Manage	er: Ash	ley Giovengo			1/30/2023 9:48:28AN
С	ONF11 - 4'				
]	E301118-01				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2304009
ND	0.0250	1	01/24/23	01/25/23	
ND	0.0250	1	01/24/23	01/25/23	
ND	0.0250	1	01/24/23	01/25/23	
ND	0.0250	1	01/24/23	01/25/23	
ND	0.0500	1	01/24/23	01/25/23	
ND	0.0250	1	01/24/23	01/25/23	
	99.0 %	70-130	01/24/23	01/25/23	
mg/kg	mg/kg	Analy	st: SL		Batch: 2304009
ND	20.0	1	01/24/23	01/25/23	
	92.9 %	70-130	01/24/23	01/25/23	
) mg/kg	mg/kg	Analy	st: KM		Batch: 2304017
ND	25.0	1	01/24/23	01/24/23	
ND	50.0	1	01/24/23	01/24/23	
	88.0 %	50-200	01/24/23	01/24/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2304012
1510	400	•		01/24/23	
	Project Name: Project Numbe Project Manage C Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         RD2           Project Number:         010;           Project Manager:         Ash           CONF11 - 4'           Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0           92.9 %         92.9 %           mg/kg         mg/kg           ND         25.0           ND         50.0           88.0 %	Roject Name:         RDX 17 #002           Project Number:         01058-0007           Project Manager:         Ashley Giovengo           CONF11 - 4'           E301118-01           Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy:           ND         0.0250         1           ND         20.0         1           99.0 %         70-130         1           92.9 %         70-130         1           ND         25.0         1           ND         50.0         1           ND         50.0         1           88.0 %         50-	Project Name:         RDX 17 #002           Project Number:         01058-0007           Project Manager:         Ashley Giovengo           CONF11 - 4'           Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL         ND         0.0250         1         01/24/23           ND         0.0250         1         01/24/23         ND         0.0250         1         01/24/23           ND         0.0250         1         01/24/23         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Project Number:       01058-0007         Project Manager:       Ashley Giovengo         CONF11 - 4'         E301118-01         Reporting         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: SL       V         ND       0.0250       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       25.0       1       01/24/23       01/24/23&lt;</td>	Project Number:       01058-0007         Project Manager:       Ashley Giovengo         CONF11 - 4'         E301118-01         Reporting         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: SL       V         ND       0.0250       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       20.0       1       01/24/23       01/25/23         MD       25.0       1       01/24/23       01/24/23<

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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Mana		ley Giovengo			1/30/2023 9:48:28AM
		CONF12 - 4'				
		E301118-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
thylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
otal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	01/24/23	01/25/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	33.4	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
urrogate: n-Nonane		91.0 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	ND	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF13 - 4'				
		E301118-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ithylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
otal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	01/24/23	01/25/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	35.0	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
urrogate: n-Nonane		89.5 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304012
Chloride	2020	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad	Project Name		X 17 #002			
6488 7 Rivers Hwy	Project Numb		58-0007			Reported:
Artesia NM, 88210	Project Mana	iger: Ash	ley Giovengo			1/30/2023 9:48:28AM
		CONF14 - 4'				
		E301118-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		96.1 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	ND	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name Project Numb Project Mana	oer: 010	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/30/2023 9:48:28AM
		CONF15 - 4'				
		E301118-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
thylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	395	125	5	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	360	250	5	01/24/23	01/25/23	
Surrogate: n-Nonane		95.6 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	3320	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007	Reported:		
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF16 - 4'				
		E301118-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	125	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	68.5	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		93.3 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304012
Chloride	ND	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb		K 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF17 - 4'				
		E301118-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
thylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
otal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	01/24/23	01/25/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	44.9	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
urrogate: n-Nonane		86.5 %	50-200	01/24/23	01/24/23	
anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	5650	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad	Project Name		X 17 #002			
6488 7 Rivers Hwy	Project Numb		58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF18 - 4'				
		E301118-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
<b>`</b> oluene	ND	0.0250	1	01/24/23	01/25/23	
o-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	28.6	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		93.4 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	447	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag		ley Giovengo			1/30/2023 9:48:28AM
	(	CONF19 - 4'				
		E301118-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	66.8	50.0	2	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	ND	100	2	01/24/23	01/25/23	
urrogate: n-Nonane		90.3 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	2390	400	20	01/24/23	01/24/23	



	Di	ample D	ala			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007	Reported:		
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	0	CONF20 - 4'				
		E301118-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	60.2	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		96.2 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304012
Chloride	ND	400	20	01/24/23	01/24/23	



	56	ample D	ata			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			1/30/2023 9:48:28AM
	C	CONF21 - 4'				
		E301118-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	98.8	50.0	2	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	ND	100	2	01/24/23	01/25/23	
Surrogate: n-Nonane		84.1 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	1730	100	5	01/24/23	01/24/23	



	52	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007	Reported:		
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			1/30/2023 9:48:28AM
	C	CONF22 - 4'				
		E301118-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	82.4	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	53.0	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		95.6 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2304012
Chloride	185	40.0	2	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb		K 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Mana	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
		CONF23 - 4'				
		E301118-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ithylbenzene	ND	0.0250	1	01/24/23	01/25/23	
oluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
otal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	01/24/23	01/25/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	388	125	5	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	371	250	5	01/24/23	01/25/23	
urrogate: n-Nonane		87.1 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	1900	200	10	01/24/23	01/24/23	



	50	imple D	ala			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	r: 010	58-0007	Reported:		
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			1/30/2023 9:48:28AM
	С	ONF24 - 4'				
	-	E301118-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
p,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	54.0	25.0	1	01/24/23	01/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		97.2 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304012
Chloride	446	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010:	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/30/2023 9:48:28AM
	(	CONF25 - 4'				
		E301118-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
o-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
urrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: SL			Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	420	250	10	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	ND	500	10	01/24/23	01/25/23	
urrogate: n-Nonane		85.4 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: BA		Batch: 2304012
Chloride	3850	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numbe		58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF26 - 4'				
		E301118-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: KM			Batch: 2304017
Diesel Range Organics (C10-C28)	148	25.0	1	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	68.2	50.0	1	01/24/23	01/25/23	
Surrogate: n-Nonane		89.6 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2304012
Chloride	931	400	20	01/24/23	01/24/23	



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Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	r: 010:	58-0007	Reported:		
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			1/30/2023 9:48:28AM
	С	ONF27 - 4'				
	]	E301118-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
o-Xylene	ND	0.0250	1	01/24/23	01/25/23	
p,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	2240	500	20	01/24/23	01/25/23	
Oil Range Organics (C28-C36)	1580	1000	20	01/24/23	01/25/23	
Surrogate: n-Nonane		102 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2304012
Chloride	4010	400	20	01/24/23	01/24/23	



	58	ample D	ala			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010:	58-0007	Reported:		
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF28 - 4'				
		E301118-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/26/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/26/23	
Toluene	ND	0.0250	1	01/24/23	01/26/23	
p-Xylene	ND	0.0250	1	01/24/23	01/26/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/26/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/26/23	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	238	25.0	1	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	103	50.0	1	01/24/23	01/25/23	
Surrogate: n-Nonane		97.2 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304012
Chloride	771	400	20	01/24/23	01/24/23	



	50	imple D	ala			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 0103	58-0007	Reported:		
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			1/30/2023 9:48:28AM
	C	CONF29 - 4'				
	-	E301118-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: SL		Batch: 2304009
Benzene	ND	0.0250	1	01/24/23	01/26/23	
Ethylbenzene	0.145	0.0250	1	01/24/23	01/26/23	
Toluene	ND	0.0250	1	01/24/23	01/26/23	
p-Xylene	0.0507	0.0250	1	01/24/23	01/26/23	
o,m-Xylene	0.247	0.0500	1	01/24/23	01/26/23	
Fotal Xylenes	0.298	0.0250	1	01/24/23	01/26/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2304009
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2304017
Diesel Range Organics (C10-C28)	6170	500	20	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	3040	1000	20	01/24/23	01/25/23	
Surrogate: n-Nonane		109 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2304012
Chloride	1640	400	20	01/24/23	01/24/23	



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Energy - Carlsbad	Project Name	RD2	X 17 #002			
' Rivers Hwy	Project Numb	oer: 010	58-0007	Reported:		
a NM, 88210	Project Mana	ger: Ash	ley Giovengo			1/30/2023 9:48:28AN
	(	CONF30 - 4'				
		E301118-20				
		Reporting				
	Result	Limit	Dilution	Prepared	Analyzed	Notes
e Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2304009
	ND	0.0250	1	01/24/23	01/26/23	
Izene	ND	0.0250	1	01/24/23	01/26/23	
	ND	0.0250	1	01/24/23	01/26/23	
e	ND	0.0250	1	01/24/23	01/26/23	
ene	ND	0.0500	1	01/24/23	01/26/23	
lenes	ND	0.0250	1	01/24/23	01/26/23	
e: 4-Bromochlorobenzene-PID		95.1 %	70-130	01/24/23	01/26/23	
ogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2304009
e Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/26/23	
e: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	01/24/23	01/26/23	
ogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: KM		Batch: 2304017	
ange Organics (C10-C28)	128	25.0	1	01/24/23	01/25/23	
ge Organics (C28-C36)	69.8	50.0	1	01/24/23	01/25/23	
r: n-Nonane		94.3 %	50-200	01/24/23	01/25/23	
by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2304012
	1480	400	20	01/24/23	01/25/23	
e: n-Nonane by EPA 300.0/9056A	mg/kg	94.3 % mg/kg	Analys	st: BA		Batch: 2



	Da	ample D	ata			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 0105	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF31 - 4'				
		E301118-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/26/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/26/23	
Toluene	ND	0.0250	1	01/24/23	01/26/23	
p-Xylene	ND	0.0250	1	01/24/23	01/26/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/26/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/26/23	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	01/24/23	01/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2304018
Diesel Range Organics (C10-C28)	134	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	78.9	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		90.0 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2304013
Chloride	3120	400	20	01/24/23	01/25/23	



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Devon Energy - Carlsbad	Project Name:	RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb	er: 010		Reported:		
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF32 - 4'				
		E301118-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
p,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: KM			Batch: 2304018
Diesel Range Organics (C10-C28)	184	25.0	1	01/24/23	01/24/23	
Dil Range Organics (C28-C36)	110	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		91.7 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304013
Chloride	986	400	20	01/24/23	01/25/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name Project Numb	oer: 0103	X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF33 - 4'				
		E301118-23				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Fotal Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: KM		Batch: 2304018	
Diesel Range Organics (C10-C28)	1730	125	5	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	781	250	5	01/24/23	01/25/23	
Surrogate: n-Nonane		101 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304013
Chloride	1960	200	10	01/24/23	01/25/23	



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010:	58-0007	Reported:		
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF34 - 4'				
		E301118-24				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
p-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304018
Diesel Range Organics (C10-C28)	615	125	5	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	346	250	5	01/24/23	01/25/23	
Surrogate: n-Nonane		93.6 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304013
Chloride	1460	400	20	01/24/23	01/25/23	


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Devon Energy - Carlsbad	Project Name	: RD2	X 17 #002			
6488 7 Rivers Hwy	Project Numb		58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			1/30/2023 9:48:28AM
	(	CONF35 - 4'				
		E301118-25				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2304018
Diesel Range Organics (C10-C28)	928	125	5	01/24/23	01/25/23	
Dil Range Organics (C28-C36)	701	250	5	01/24/23	01/25/23	
Surrogate: n-Nonane		89.2 %	50-200	01/24/23	01/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2304013
Chloride	1320	400	20	01/24/23	01/25/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbo Project Manag	er: 010:	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 1/30/2023 9:48:28AM
	(	CONF36 - 4'				
		E301118-26				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: SL		Batch: 2304010
Benzene	ND	0.0250	1	01/24/23	01/25/23	
Ethylbenzene	ND	0.0250	1	01/24/23	01/25/23	
Toluene	ND	0.0250	1	01/24/23	01/25/23	
o-Xylene	ND	0.0250	1	01/24/23	01/25/23	
o,m-Xylene	ND	0.0500	1	01/24/23	01/25/23	
Total Xylenes	ND	0.0250	1	01/24/23	01/25/23	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2304010
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/23	01/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	01/24/23	01/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2304018
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/23	01/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/23	01/24/23	
Surrogate: n-Nonane		97.6 %	50-200	01/24/23	01/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2304013
Chloride	2100	400	20	01/24/23	01/25/23	



# QC Summary Data

		QC D	u111111	ary Dat	ц				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	0	DX 17 #002 1058-0007					<b>Reported:</b> 1/30/2023 9:48:28AM
Artesia NM, 88210		Project Manager:	А	shley Gioveng	go				1/30/2023 9:48:28AM
		Volatile O	rganics l	by EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304009-BLK1)							Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Benzene	ND	0.0250					1	-	,
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0230							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.91	0.0250	8.00		98.9	70-130			
LCS (2304009-BS1)							Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Benzene	4.08	0.0250	5.00		81.6	70-130			
Ethylbenzene	4.36	0.0250	5.00		87.2	70-130			
Toluene	4.42	0.0250	5.00		88.4	70-130			
p-Xylene	4.53	0.0250	5.00		90.5	70-130			
p,m-Xylene	8.83	0.0500	10.0		88.3	70-130			
Total Xylenes	13.4	0.0250	15.0		89.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			
Matrix Spike (2304009-MS1)				Source:	E301118-0	13	Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Benzene	4.31	0.0250	5.00	ND	86.1	54-133			
Ethylbenzene	4.65	0.0250	5.00	ND	93.0	61-133			
Toluene	4.69	0.0250	5.00	ND	93.7	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.4	63-131			
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			
Matrix Spike Dup (2304009-MSD1)				Source:	E301118-0	13	Prepared: 0	1/24/23 A	analyzed: 01/25/23
Benzene	4.01	0.0250	5.00	ND	80.2	54-133	7.09	20	
Ethylbenzene	4.33	0.0250	5.00	ND	86.7	61-133	7.07	20	
Toluene	4.37	0.0250	5.00	ND	87.4	61-130	6.96	20	
p-Xylene	4.49	0.0250	5.00	ND	89.9	63-131	6.99	20	
p,m-Xylene	8.80	0.0500	10.0	ND	88.0	63-131	6.92	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.6	63-131	6.94	20	
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			



# QC Summary Data

		QC D		ary Date	4				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	0	DX 17 #002 1058-0007					Reported:
Artesia NM, 88210		Project Manager:	А	shley Gioveng	0				1/30/2023 9:48:28AM
		Volatile O	rganics	by EPA 802	1B				Analyst: SL
Analyte		Reporting	Spike	Source	_	Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304010-BLK1)							Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
LCS (2304010-BS1)							Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Benzene	4.13	0.0250	5.00		82.7	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.4	70-130			
Foluene	4.51	0.0250	5.00		90.2	70-130			
o-Xylene	4.61	0.0250	5.00		92.3	70-130			
p,m-Xylene	9.06	0.0500	10.0		90.6	70-130			
Total Xylenes	13.7	0.0250	15.0		91.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			
Matrix Spike (2304010-MS1)				Source:	E301119-01		Prepared: 0	1/24/23 A	analyzed: 01/25/23
Benzene	4.20	0.0250	5.00	ND	84.0	54-133			
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	61-133			
Toluene	4.56	0.0250	5.00	ND	91.2	61-130			
p-Xylene	4.66	0.0250	5.00	ND	93.2	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			
Matrix Spike Dup (2304010-MSD1)				Source:	E301119-01		Prepared: 0	1/24/23 A	analyzed: 01/25/23
Benzene	4.21	0.0250	5.00	ND	84.3	54-133	0.380	20	
Ethylbenzene		0.0250	5.00	ND	91.0	61-133	0.598	20	
Luiyidenzene	4.55	0.0250							
-	4.55 4.59	0.0250	5.00	ND	91.7	61-130	0.535	20	
Toluene			5.00 5.00	ND ND	91.7 93.7	61-130 63-131	0.535 0.591	20 20	
Toluene o-Xylene p.m-Xylene	4.59	0.0250							
Toluene o-Xylene	4.59 4.69	0.0250 0.0250	5.00	ND	93.7	63-131	0.591	20	



# **QC Summary Data**

		QC D	uIIIIII	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/30/2023 9:48:28AM
	Noi	nhalogenated (	Organics	s by EPA 801:	5D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	0 0	6 6	8 8	6 6	,,,	,,,	,,,	,,,	
Blank (2304009-BLK1)							Prepared: 0	1/24/23 A	Analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			
LCS (2304009-BS2)							Prepared: 0	1/24/23 A	Analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			
Matrix Spike (2304009-MS2)				Source: E	301118-(	03	Prepared: 0	1/24/23 A	Analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		90.9	70-130			
Matrix Spike Dup (2304009-MSD2)				Source: E	301118-(	03	Prepared: 0	1/24/23 A	Analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130	8.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			



# **QC Summary Data**

		QU D		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/30/2023 9:48:28AM
	No	nhalogenated O		, ,		RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304010-BLK1)							Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			
LCS (2304010-BS2)							Prepared: 0	1/24/23 A	analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.2	70-130			
Matrix Spike (2304010-MS2)				Source: E	301119-(	)1	Prepared: 0	1/24/23 A	analyzed: 01/25/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			
Matrix Spike Dup (2304010-MSD2)				Source: E	301119-(	)1	Prepared: 0	1/24/23 A	nalyzed: 01/25/23
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130	5.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			



# QC Summary Data

		QC DI	umm	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:		RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/30/2023 9:48:28AM
	Nonh	alogenated Orga	anics by	y EPA 8015D -	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304017-BLK1)							Prepared: 0	1/24/23 <i>A</i>	Analyzed: 01/24/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			
LCS (2304017-BS1)							Prepared: 0	1/24/23 A	Analyzed: 01/24/23
Diesel Range Organics (C10-C28)	219	25.0	250		87.6	38-132			
Surrogate: n-Nonane	47.5		50.0		95.1	50-200			
Matrix Spike (2304017-MS1)				Source: E.	301118-	08	Prepared: 0	1/24/23 A	Analyzed: 01/24/23
Diesel Range Organics (C10-C28)	242	25.0	250	28.6	85.4	38-132			
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2304017-MSD1)				Source: E.	301118-	08	Prepared: 0	1/24/23 A	Analyzed: 01/24/23
Diesel Range Organics (C10-C28)	220	25.0	250	28.6	76.5	38-132	9.62	20	
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			



# QC Summary Data

		QC D	u I I I I I I	aly Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 1/30/2023 9:48:28AM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304018-BLK1)							Prepared: 0	1/24/23 A	analyzed: 01/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.8		50.0		97.7	50-200			
LCS (2304018-BS1)							Prepared: 0	1/24/23 A	analyzed: 01/24/23
Diesel Range Organics (C10-C28)	218	25.0	250		87.2	38-132			
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			
Matrix Spike (2304018-MS1)				Source: E	301119-	05	Prepared: 0	1/24/23 A	analyzed: 01/24/23
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			
Matrix Spike Dup (2304018-MSD1)				Source: E	301119-	05	Prepared: 0	1/24/23 A	analyzed: 01/24/23
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.3	38-132	12.3	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



# **QC Summary Data**

				J						
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		RDX 17 #002 01058-0007					Repo	orted:
Artesia NM, 88210		Project Manager:		Ashley Gioveng	<u>j</u> 0				1/30/2023	9:48:28AM
		Anions	by EPA	300.0/9056A	1				Analyst	: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	1	Notes
Blank (2304012-BLK1)							Prepared: 0	1/24/23	Analyzed: 0	1/24/23
Chloride	ND	20.0								
LCS (2304012-BS1)							Prepared: 0	1/24/23	Analyzed: 0	1/24/23
Chloride	264	20.0	250		106	90-110				
Matrix Spike (2304012-MS1)				Source:	E301118-0	)1	Prepared: 0	1/24/23	Analyzed: 0	1/24/23
Chloride	1720	400	250	1510	80.2	80-120				
Matrix Spike Dup (2304012-MSD1)				Source:	E301118-0	)1	Prepared: 0	1/24/23	Analyzed: 0	1/24/23
Chloride	1690	400	250	1510	71.0	80-120	1.34	20		M2



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{z}$	••••••							
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 )1058-0007 Ashley Gioveng	50				•	orted: 9:48:28AM
		Anions	by EPA	300.0/9056A	•				Analyst	: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	1	Notes
Blank (2304013-BLK1)							Prepared: 0	1/24/23	Analyzed: 0	1/25/23
Chloride LCS (2304013-BS1)	ND	20.0					Prepared: 0	1/24/23	Analyzed: 0	1/25/23
Chloride	262	20.0	250		105	90-110				
Matrix Spike (2304013-MS1)				Source:	E301118-2	1	Prepared: 0	1/24/23	Analyzed: 0	1/25/23
Chloride	3310	400	250	3120	73.2	80-120				M2
Matrix Spike Dup (2304013-MSD1)				Source:	E301118-2	1	Prepared: 0	1/24/23	Analyzed: 0	1/25/23
Chloride	3470	400	250	3120	137	80-120	4.72	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.



	Definition	s and Notes	
Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/30/23 09:48

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

Not Reported NR

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.

Reference Information

W0#1061207701

Project Ir	formation				C	Chain of Custody			N	0.	#	106	12	0=	+=	10	1	Page	of3
Client:	Devon				Bill To				12	ab U	se On	lv	-	1		TA	г	EPA P	rogram
	RDX 17 #002	)			Attention: Jim Raley		Lah	WO#				Number	_	1D	2D	3D	Standard	CWA	SDWA
	Aanager: As		engo		Address: 5315 Buena Vista D	)r	F	301	1118			58-00		10	20	50	X	CVVA	JUWA
	1224 Stan			_	City, State, Zip: Calsbad, NM		1-3	201	1110			sis and N		4	-				RCRA
	e, Zip: Carls				Phone: 575-689-7597	COLLO	1	1	1				T	1	1		-		nenn
	505-382-1		OULLO		Email: jim.raley@dvn.com			5										State	
	ashley.giove		scominc	com			8015	by 8015		-		0					NM CO	UT AZ	TX
Report d		ingo en re	sconnici				DRO/ORO by	yd C	BTEX by 8021	260	010	Chloride 300.0		WN	×	K		OT AL	
Time			No. of			Lab	OR(	GRO/DRO	by 8	VOC by 8260	Metals 6010	ide		C			×		
Sampled	Date Sampled	Matrix	Containers	Sample ID		Numbe	RO/	RO/	TEX	OC	leta	hlor		BGDOC	BGDOC	1.1		Remarks	8
12:06	1/20/23	Soil	1 Jar		CONF11 - 4'					>	2	0		x	m				
12:09	1/20/23	Soil	1 Jar		CONF12 - 4'	2								x					
12:11	1/20/23	Soil	1 Jar		CONF13 - 4'	3								x					
12:16	1/20/23	Soil	1 Jar	1	CONF14 - 4'	4								x					
12:19	1/20/23	Soil	1 Jar		CONF15 - 4'	5								x					
12:22	1/20/23	Soil	1 Jar		CONF16 - 4'	6								x					
12:27	1/20/23	Soil	1 Jar		CONF17 - 4'	7								x					-
12:32	1/20/23	Soil	1 Jar		CONF18 - 4'	8								x					
12:35	1/20/23	Soil	1 Jar		CONF19 - 4'	9								x					
12:38	1/20/23	Soil	1 Jar		CONF20 - 4'	10								x					
israel.es	trella@weso	e validity and	<b>m</b> d authenticit		burton@wescominc.com, shar.ha aware that tampering with or intentionally m action. Sampled by:				n, jim	n.rale	Sample	es requiring t	hermal p	reservat	ion mus	t be rece	escominc.co lived on ice the day °C on subsequent da	they are samp	ed or received
A	ed by: (Signatu	×	Date Date	23/23 Time	Can M. Gold Signature) Received by: (Signature) Received by: (Signature)	Date		Time // Time	06	,	Rece	eived on	ice:		ab Us ∕∕N	e Onl	ý		
Relinquist	ed by: (Signatu	Tel	Date		Received by: (Signature)	/-23	23	Time		)	<u>T1</u>		_	<u>T2</u>	-		<u>T3</u>		
no	eng	fi		23-23 230	a latter Chi	1124	23		:10			i Temp °							
Contraction of the second seco	trix: S -Soil, Sd - S											astic, ag							
					ess other arrangements are made. Haza eory with this COC. The liability of the lab								e clien	t expe	nse.	The rep	port for the ana	lysis of the	above
					F	Page 41 of 44				E	I	e	91	'n	V	i	rot	e	ch

Page 2 of

Project In	formation				Chain of Custody												Page	2_of
	RDX 17 #002			Bill <u>Attention:</u> Jim Raley		Lab Use Only Lab WO# Job Number			1D	TAT D 2D 3D Standard		T Standard	EPA P CWA	rogram SDWA				
Address:	lanager: As 1224 Stan e, Zip: Carls	dpipe Rd			E301118       Sity, State, Zip:     Calsbad, NM 88220				O1058-0007 Analysis and Method				×		RCRA			
Phone: Email: a	Phone: 505-382-1211 Email: ashley.giovengo@wescominc.com				by 8015	by 8015	120	00	10	0.00		WN			NM CC	State		
Report d Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO	BTEX by 8021		Metals 6010	Chloride 300.0	1	BGDOC N	BGDOC TX		×	Remarks	
13:19	1/20/23	Soil	1 Jar	CONF21 - 4'	11					-			x					
13:21	1/20/23	Soil	1 Jar	CONF22 - 4'	12								x					
13:23	1/20/23	Soil	1 Jar	CONF23 - 4'	13								x					
13:28	1/20/23	Soil	1 Jar	CONF24 - 4' CONF25 - 4'	14			_			_		x			_		
13:31 13:33	1/20/23	Soil	1 Jar	CONF25 - 4'	15	-			_	_			x					
13:33	1/20/23	Soil	1 Jar	CONF27 - 4'	16			_	4	_		-	x					_
13:42	1/20/23	Soil Soil	1 Jar 1 Jar	CONF28 - 4'	17	-		-	-	-	+	-	x	-				
13:44	1/20/23	Soil	1 Jar	CONF29 - 4'	19				1		-	-	x					
13:48	1/20/23	Soil	1 Jar	CONF30 - 4'	20								x					
israel.es	trella@west	e validity an	<b>m</b> d authenticity	Please CC: cole.burton@wescominc.com, s of this sample. I am aware that tampering with or intention be grounds for legal action. Sampled by:				jim.ra	S	amples r	equiring th	nermal pr	reservat	tion mu	ist be rec	eived on ice the day	they are samp	ed or received
Relinquish	ed by: (Signatu ed by: (Signatu	re)	Date 0 / / Date	23/23 Time Received by: (Signature 13/23 11-0(0 am Mich We 23,23 1645 Received by: (Signature Received by: (Signature	in/2 01-23-		Time 110 Time 17	600		Receiv F1	ved on				se Onl	y T3		
ha	ed by: (Signatu Levet rix: S - Soit, Sd - S	lin	and the second second	23-23 230 Cuttur	hta 1/24 Container	23 Type	Time 8: g - gla	10 ass, p	_		emp°( tic, ag -	- 4	1	ss, v -	VOA			
Note: Sam	ples are discar	ded 30 days	after result	is are reported unless other arrangements are made ived by the laboratory with this COC. The liability of	. Hazardous samples will be	e retu	rned to	client o	or dis	sposed	of at th					port for the ana	lysis of the	above
					Page 42 of 44			(	11	-	e	<b>)</b> [	1	V	i	rot	e	cł

Reference information

Page <u>3</u> of

BTEX by 8021		010	Number	er 1007 I Metho		2D B6600C TX	TAT	Standard x NM CO ×	CWA State	
BTEX by 8021					X BGDOC NM				UT AZ	TX
BTEX b	VOC by	Metals	Chlorid		x	BGDOC			Remarks	
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					x					
				-	1.00					
		V			x				12	
					x					
		1			x					
					x		0			
	U4									
, jim	.rale	y@d	vn.co	m, ashl	ey.gid	oveng	o@we	escominc.co	m,	
										ed or receive
26	2	Rece	eived o	on ice:			e Only			
		-						<u>T3</u>		
o clier	nt or c	dispos	ed of at					ort for the ana	lysis of the	above
e (e) e	e 06 e 3:10 glass, I to clier	e 06 e glass, p - pr I to client or o	sample packed e C C e P C C C T T T AVC glass, p - poly/pl t o client or dispos	Samples requiring packed in ice at in packed in ice at in T1 AVG Temp glass, p - poly/plastic, at to client or disposed of at it paid for on the report.	Samples requiring thermal packed in ice at an avg tem e C C C C C C C C C C C C C C C C C C	Samples requiring thermal preserva packed in ice at an avg temp above C = C Received on ice: $C$ T1 = T2 T2 C C C C T1 = T2 C C C C C C C C C C	Samples requiring thermal preservation mus packed in ice at an avg temp above 0 but less	Samples requiring thermal preservation must be received in ice at an avg temp above 0 but less than 6 °C e Lab Use Only Received on ice: Ø/ N T1 T2 e Lab Use Only P OD T1 T2 e Lab Use Only P OD T1 T2 e Lab Use Only T1 T2 e Lab Use Only T2 T2 e Lab Use Only T1 T2 e Lab Use Only T2 T2 e Lab Use Only T1 T2 e Lab Use Only T1 T2 e Lab Use Only T2 T2 e Lab Use Only E Lab Use O	Samples requiring thermal preservation must be received on ice the day packed in ice at an avg temp above 0 but less than 6 °C on subsequent da e Lab Use Only Received on ice: $O/N$ T1 T2 T3 e Lab Use Only N T1 T2 T3 e JO AVG Temp °C 4 glass, p - poly/plastic, ag - amber glass, v - VOA I to client or disposed of at the client expense. The report for the ana it paid for on the report.	Received on ice: $O / N$ T1 T2 T3 AVG Temp °C $4$ I to client or disposed of at the client expense. The report for the analysis of the analysis of the second s

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad D	ate Received:	01/24/23	08:10	Work Order ID:	E301118
Phone:	(505) 382-1211 D	ate Logged In:	01/23/23	15:45	Logged In By:	Caitlin Christian
Email:		ue Date:	01/30/23	17:00 (4 day TAT)		
Chain c	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	Carrier: Courier		
4. Was t	the COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u> Turn Around Time (TAT)</u>					
6. Did t	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	s, was cooler received in good condition?		Yes			
9. Was t	the sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling	,	Yes			
13. If no	o visible ice, record the temperature. Actual sample te	mperature: 4°	с			
	Container					
-	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample container	s collected?	Yes			
	ahel					
	ubei					
19. Is the Field La	e field sample labels filled out with the minimum inform	nation:				
19. Is the <u>Field La</u> 20. Wer		nation:	Yes			
19. Is the <u>Field La</u> 20. Wer	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?	nation:	Yes			
19. Is the Field La 20. Wer	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?	nation:				
19. Is the <u>Field La</u> 20. Wer	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation		Yes No			
19. Is the Field La 20. Wer Sample 21. Doe	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> is the COC or field labels indicate the samples were pres		Yes No No			
19. Is the Field La 20. Wer Sample 21. Doe 22. Are	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were pres sample(s) correctly preserved?	erved?	Yes No No NA			
<ol> <li>Is the Field La 20. Wer</li> <li>Sample 21. Doe 22. Are 24. Is la</li> </ol>	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation so the COC or field labels indicate the samples were pres sample(s) correctly preserved? ab filteration required and/or requested for dissolved met	erved?	Yes No No			
19. Is the Field L. 20. Wer Sample 21. Doe 22. Are 24. Is la Multipl	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation so the COC or field labels indicate the samples were pres sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix	erved? als?	Yes No No No			
<ol> <li>Is the Field L.</li> <li>Wer</li> <li>Wer</li> <li>Wer</li> <li>Doe</li> <li>Loe</li> <li>Are</li> <li>Is la</li> <li>Multipl</li> <li>Doe</li> <li>Doe</li> </ol>	re field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation res the COC or field labels indicate the samples were press sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix res the sample have more than one phase, i.e., multiphase?	erved? als? ?	Yes No NA No No			
<ol> <li>Is the <u>Field L</u>.</li> <li>Wer</li> <li>Wer</li> <li>Wer</li> <li>Doe</li> <li>Are</li> <li>Are</li> <li>Is la</li> <li>Multipl</li> <li>Doe</li> <li>The yer</li> </ol>	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were press sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix es the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	erved? als? ?	Yes No No No			
19. Is the Field La 20. Wer 20. Wer 21. Doe 22. Are 24. Is la Multipl 26. Doe 27. If ye Subcon	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were press sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix es the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze tract Laboratory	erved? als? ? 2d?	Yes No NA No No NA			
19. Is the <b>Field L</b> 20. Wer <b>Sample</b> 21. Doe 22. Are 24. Is la <b>Multipl</b> 26. Doe 27. If ye <b>Subcon</b> 28. Are	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation es the COC or field labels indicate the samples were press sample(s) correctly preserved? ab filteration required and/or requested for dissolved met hase Sample Matrix es the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	erved? als? ed?	Yes No NA No No	Subcontract Lab: NA		

C

Date

envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order: E301135

Job Number: 01058-0007

Received: 1/27/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 2/1/23

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: 2/1/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301135 Date Received: 1/27/2023 8:30:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/27/2023 8:30:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

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

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

		Sample Sum	mary			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	Number: 01058-0007		<b>Reported:</b> 02/01/23 13:15	
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
'ONF37 - 4'	E301135-01A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF38 - 4'	E301135-02A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF39 - 0'	E301135-03A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF40 - 0'	E301135-04A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF41 - 0'	E301135-05A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF42 - 0'	E301135-06A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF43 - 0'	E301135-07A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF44 - 0'	E301135-08A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF455'	E301135-09A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
'ONF46 - 3'	E301135-10A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF47 - 4'	E301135-11A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
'ONF48 - 3'	E301135-12A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF53 - 3'	E301135-13A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF57 Wall - 2'	E301135-14A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF58 Wall - 2'	E301135-15A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	
ONF59 Wall - 0'	E301135-16A	Soil	01/25/23	01/27/23	Glass Jar, 2 oz.	



D . ( )]					
-	er: 010:				<b>Reported:</b> 2/1/2023 1:15:18PM
(	CONF37 - 4'				
	E301135-01				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2304046
ND	0.0250	1	01/27/23	01/28/23	
ND	0.0250	1	01/27/23	01/28/23	
ND	0.0250	1	01/27/23	01/28/23	
ND	0.0250	1	01/27/23	01/28/23	
ND	0.0500	1	01/27/23	01/28/23	
ND	0.0250	1	01/27/23	01/28/23	
	98.0 %	70-130	01/27/23	01/28/23	
mg/kg	mg/kg	Analy	vst: SL		Batch: 2304046
ND	20.0	1	01/27/23	01/28/23	
	91.1 %	70-130	01/27/23	01/28/23	
) mg/kg	mg/kg	/kg Analyst: RAS			Batch: 2304043
251	125	5	01/27/23	01/28/23	
260	250	5	01/27/23	01/28/23	
	89.2 %	50-200	01/27/23	01/28/23	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2304054
2500	400	20	01/27/23	01/28/23	
	Project Numb Project Manag Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Number:         010.           Project Manager:         Ash           CONF37 - 4'           E301135-01           Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           MD         0.0250           MD         0.0250           MD         0.0250           MD         0.0250           MD         0.0250           MD         0.0250           Mg/kg         mg/kg           Mg/kg         Mg/kg           Mg/kg         Mg/kg           Mg/kg         Mg/kg           Mg/kg         Mg/kg	Project Number:         01058-0007 Ashley Giovengo           CONF37 - 4'         E301135-01           E301135-01         Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           MD         20.0         5           MD         20.0         5           260         250         5	Project Number:       01058-0007         Project Manager:       Ashley Giovengo         CONF37 - 4'         E301135-01         Reporting         Reporting       Malyst:         Result       Limit       Dilution       Prepared         mg/kg       mg/kg       Analyst:       SU         ND       0.0250       1       01/27/23         MD       20.0       5       01/27/23         MD       <	Project Number:       01058-0007         Project Manager:       Ashley Giovengo         CONF37 - 4'         E301135-01         Reporting         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: SL       V         ND       0.0250       1       01/27/23       01/28/23         ND       20.0       1       01/27/23       01/28/23         MD       20.0       1       01/27/23       01/28/23         MD       20.0       1       01/27/23       01/28/23         MD       20.0       1       01/27/23       01/28/23 </td

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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002				
6488 7 Rivers Hwy	Project Numbe	r: 0103	58-0007			Reported:	
Artesia NM, 88210	Project Manage	er: Ash	ey Giovengo			2/1/2023 1:15:18PM	
	С	ONF38 - 4'					
	]	E301135-02					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	Analyst: SL		Batch: 2304046	
Benzene	ND	0.0250	1	01/27/23	01/27/23		
Ethylbenzene	ND	0.0250	1	01/27/23	01/27/23		
Foluene	ND	0.0250	1	01/27/23	01/27/23		
p-Xylene	ND	0.0250	1	01/27/23	01/27/23		
o,m-Xylene	ND	0.0500	1	01/27/23	01/27/23		
Fotal Xylenes	ND	0.0250	1	01/27/23	01/27/23		
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/27/23	01/27/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2304046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/27/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	01/27/23	01/27/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2304043	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23		
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23		
Surrogate: n-Nonane		96.1 %	50-200	01/27/23	01/27/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2304054	
Chloride	1700	400	20	01/27/23	01/28/23		



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/1/2023 1:15:18PM
	(	CONF39 - 0'				
		E301135-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane		123 %	50-200	01/27/23	01/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2304054
Chloride	160	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/1/2023 1:15:18PM
	0	CONF40 - 0'				
		E301135-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Foluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane		96.1 %	50-200	01/27/23	01/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2304054
Chloride	48.4	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 0103	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 2/1/2023 1:15:18PM
	(	CONF41 - 0'				
		E301135-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane		87.8 %	50-200	01/27/23	01/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2304054
Chloride	26.0	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Number		58-0007		Reported:	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/1/2023 1:15:18PM
	(	CONF42 - 0'				
		E301135-06				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	Analyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Foluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		97.1 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2304054
Chloride	45.8	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numb		58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/1/2023 1:15:18PM
	(	CONF43 - 0'				
		E301135-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		99.0 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2304054
Chloride	466	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:		X 17 #002			<b>D</b> (1)
6488 7 Rivers Hwy Artesia NM, 88210	Project Numbe Project Manag		58-0007 ley Giovengo		<b>Reported:</b> 2/1/2023 1:15:18PM	
Ancsia INVI, 86210	Floject Mallag	gei. Asii	ley Gloveligo			2/1/2025 1.15.161 W
	(	CONF44 - 0'				
		E301135-08				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
urrogate: 4-Bromochlorobenzene-PID		99.8 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		93.6 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2304054
Chloride	361	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numb		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag		ley Giovengo	)		2/1/2023 1:15:18PM
	(	CONF455'				
		E301135-09				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Foluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		93.4 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2304054
Chloride	625	20.0	1	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:		X 17 #002			D ( )
6488 7 Rivers Hwy Artesia NM, 88210	Project Numb Project Manag		58-0007 ley Giovengo	<b>Reported:</b> 2/1/2023 1:15:18PM		
Ancsia INVI, 86210	Floject Manag	gei. Asii	ley Gloveligo			2/1/2025 1.15.161 W
	(	CONF46 - 3'				
		E301135-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
urrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2304046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		97.8 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2304054
Chloride	66.1	40.0	2	01/27/23	01/28/23	



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Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	r: 010:	01058-0007			Reported:
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			2/1/2023 1:15:18PM
	С	ONF47 - 4'				
	]	E301135-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2304046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	87.3	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	71.4	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		100 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2304054
Chloride	419	20.0	1	01/27/23	01/28/23	



	Da	ample D	ata			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/1/2023 1:15:18PM
	0	CONF48 - 3'				
		E301135-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Fotal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2304046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		88.3 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2304054
Chloride	430	200	10	01/27/23	01/28/23	



	58	imple D	ลเล			
Devon Energy - Carlsbad	Project Name:	RD	K 17 #002			
6488 7 Rivers Hwy	Project Number	r: 010:	58-0007			Reported:
Artesia NM, 88210	Project Manage	er: Ash	ey Giovengo			2/1/2023 1:15:18PM
	С	ONF53 - 3'				
		E301135-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	Analyst: SL		Batch: 2304046
enzene	ND	0.0250	1	01/27/23	01/28/23	
thylbenzene	ND	0.0250	1	01/27/23	01/28/23	
oluene	ND	0.0250	1	01/27/23	01/28/23	
-Xylene	ND	0.0250	1	01/27/23	01/28/23	
,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
otal Xylenes	ND	0.0250	1	01/27/23	01/28/23	
urrogate: 4-Bromochlorobenzene-PID	9	99.9 %	70-130	01/27/23	01/28/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2304046	
asoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
urrogate: 1-Chloro-4-fluorobenzene-FID	!	94.2 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
urrogate: n-Nonane		93.5 %	50-200	01/27/23	01/28/23	
anions by EPA 300.0/9056A		a	Analyst: BA		Batch: 2304054	
	mg/kg	mg/kg	Anaryst	. DA		Batch: 2304034



	50	ample D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe	er: 010:	X 17 #002 58-0007			<b>Reported:</b> 2/1/2023 1:15:18PM
Artesia NM, 88210	Project Manag	ger: Asn	ley Giovengo			2/1/2025 1:15:18PM
	CO	NF57 Wall -	2'			
		E301135-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2304046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		98.2 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2304054
Chloride	ND	40.0	2	01/27/23	01/28/23	



	58	imple D	ลเล			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			2/1/2023 1:15:18PM
	CO	NF58 Wall -	2'			
	]	E301135-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2304046
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
p-Xylene	ND	0.0250	1	01/27/23	01/28/23	
o,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2304046
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2304043
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane		95.8 %	50-200	01/27/23	01/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2304054
Chloride	404	20.0	1	01/27/23	01/28/23	



02 vengo			<b>Reported:</b> 2/1/2023 1:15:18PM
vengo			2/1/2023 1.15.18PM
			2,1/2023 1.13.101 W
Dilution	Prepared	Analyzed	Notes
Analyst:	SL		Batch: 2304046
1	01/27/23	01/28/23	
1	01/27/23	01/28/23	
1	01/27/23	01/28/23	
1	01/27/23	01/28/23	
1	01/27/23	01/28/23	
1	01/27/23	01/28/23	
0	01/27/23	01/28/23	
Analyst: SL		Batch: 2304046	
1	01/27/23	01/28/23	
0	01/27/23	01/28/23	
Analyst: RAS		Batch: 2304044	
1	01/27/23	01/27/23	
1	01/27/23	01/27/23	
0	01/27/23	01/27/23	
Analyst:	BA		Batch: 2304054
1	01/27/23	01/28/23	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analyst: SL         1       01/27/23         1       01/27/23         1       01/27/23         1       01/27/23         1       01/27/23         1       01/27/23         1       01/27/23         1       01/27/23         20       01/27/23         Analyst: SL       1         10       01/27/23         Analyst: RAS       1         1       01/27/23         00       01/27/23         1       01/27/23         Analyst: RAS       1         00       01/27/23         1       01/27/23	Analyst: SL         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         1       01/27/23       01/28/23         20       01/27/23       01/28/23         Analyst: SL       1       01/27/23         20       01/27/23       01/28/23         1       01/27/23       01/28/23         20       01/27/23       01/28/23         21       01/27/23       01/28/23         20       01/27/23       01/28/23         21       01/27/23       01/28/23         21       01/27/23       01/27/23         21       01/27/23       01/27/23         22       01/27/23       01/27/23         23       01/27/23       01/27/23         24       01/27/23       01/27/23         25       01/27/23       01/27/23         26       01/27/23       01/27/23         27       01


# QC Summary Data

		QC D	u111111	ii y Dat	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		DX 17 #002 1058-0007					Reported:
Artesia NM, 88210		Project Manager:	А	shley Gioveng	go				2/1/2023 1:15:18PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: SL
Analyte	D li	Reporting Limit	Spike Level	Source Result	D	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	mg/kg	mg/kg	Rec %	%	%	2 %	Notes
Blank (2304046-BLK1)							Prepared: 0	1/27/23 A	nalyzed: 01/27/23
. ,	ND	0.0050					Treparea. 0	1/2//25 11	naryzea. 01/2//25
Benzene	ND ND	0.0250							
Ethylbenzene	ND ND	0.0250							
Toluene	ND ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500 0.0250							
Total Xylenes Surrogate: 4-Bromochlorobenzene-PID	8.18	0.0230	8.00		102	70-130			
LCS (2304046-BS1)							Prepared: 0	1/27/23 A	nalyzed: 01/27/23
Benzene	4.79	0.0250	5.00		95.7	70-130	-		-
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130			
Foluene	4.94	0.0250	5.00		98.8	70-130			
p-Xylene	4.97	0.0250	5.00		99.4	70-130			
o,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			
Matrix Spike (2304046-MS1)				Source:	E301135-0	)2	Prepared: 0	1/27/23 A	nalyzed: 01/28/23
Benzene	4.54	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.57	0.0250	5.00	ND	91.3	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
p-Xylene	4.72	0.0250	5.00	ND	94.3	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			
Matrix Spike Dup (2304046-MSD1)				Source:	E301135-0	)2	Prepared: 0	1/27/23 A	nalyzed: 01/28/23
Benzene	5.03	0.0250	5.00	ND	101	54-133	10.4	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	10.7	20	
Toluene	5.21	0.0250	5.00	ND	104	61-130	10.5	20	
o-Xylene	5.24	0.0250	5.00	ND	105	63-131	10.6	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	10.4	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



## **QC Summary Data**

		QU D	u1111116	ii y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Giovengo	0				<b>Reported:</b> 2/1/2023 1:15:18PM
	No	nhalogenated C	Organics	by EPA 801	5D - GI	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	0.0	0.0	0.0	0.0					
Blank (2304046-BLK1)							Prepared: 0	1/27/23 A	nalyzed: 01/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			
LCS (2304046-BS2)							Prepared: 0	1/27/23 A	nalyzed: 01/27/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			
Matrix Spike (2304046-MS2)				Source: I	E301135-(	02	Prepared: 0	1/27/23 A	nalyzed: 01/28/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			
Matrix Spike Dup (2304046-MSD2)				Source: I	E301135-0	02	Prepared: 0	1/27/23 A	nalyzed: 01/31/23
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.3	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			



## QC Summary Data

		QC D	u 1111110	ily Data	4				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Gioveng	0				<b>Reported:</b> 2/1/2023 1:15:18PM
Antesia Wivi, 86210	Nerth	, ,		, ,					
	INONIA	alogenated Org	anics by	EFA 8015L	- DKU	/UKU			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304043-BLK1)							Prepared: 0	1/27/23 A	analyzed: 01/27/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			
LCS (2304043-BS1)							Prepared: 0	1/27/23 A	analyzed: 01/27/23
Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			
Matrix Spike (2304043-MS1)				Source:	E301135-(	05	Prepared: 0	1/27/23 A	analyzed: 01/27/23
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132			
Surrogate: n-Nonane	42.8		50.0		85.6	50-200			
Matrix Spike Dup (2304043-MSD1)				Source:	E301135-(	05	Prepared: 0	1/27/23 A	analyzed: 01/27/23
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132	3.60	20	
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			



## QC Summary Data

		QU DY	u 1111110	in y Data	•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		DX 17 #002 1058-0007					Reported:
Artesia NM, 88210		Project Manager:	Α	shley Gioveng	0				2/1/2023 1:15:18PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2304044-BLK1)							Prepared: 0	1/27/23 A	Analyzed: 01/27/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.6		50.0		105	50-200			
LCS (2304044-BS1)							Prepared: 0	1/27/23 A	Analyzed: 01/27/23
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	52.5		50.0		105	50-200			
Matrix Spike (2304044-MS1)				Source:	E301137-1	16	Prepared: 0	1/27/23 A	Analyzed: 01/27/23
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			
Matrix Spike Dup (2304044-MSD1)				Source:	E <b>301137-</b> 1	16	Prepared: 0	1/27/23 A	Analyzed: 01/27/23
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	0.550	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



## **QC Summary Data**

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Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	0	DX 17 #002 1058-0007 shley Gioveng	0				<b>Reported:</b> 2/1/2023 1:15:18PM
		Anions	by EPA	300.0/9056A	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2304054-BLK1)							Prepared: 0	1/27/23	Analyzed: 01/28/23
Chloride LCS (2304054-BS1)	ND	20.0					Prepared: 0	1/27/23	Analyzed: 01/30/23
Chloride Matrix Spike (2304054-MS1)	249	20.0	250	Source:	99.8 <b>E301135-(</b>	90-110	Prepared: 0	1/27/23	Analyzed: 01/28/23
Chloride	2900	400	250	2500	159	80-120			M4
Matrix Spike Dup (2304054-MSD1)				Source:	E301135-0	)1	Prepared: 0	1/27/23	Analyzed: 01/28/23
Chloride	2670	400	250	2500	67.0	80-120	8.24	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.



	Demitions		
Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/01/23 13:15
7 Hitesia 1 (W, 00210	riojeet Manager.	A Isiney Glovengo	02/01/25 1

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- Note (1): Methods marked with \*\* are non-accredited methods.

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



Reproject Information

lient:	Devon				Bill To	)			L	ab Us	se Or	nly				TA	T		EPA Pr	ogram
	RDX 17 #002				ention: Jim Raley		_ La	ab W	0#	-	Job	Numbe	er	1D	2D	3D	Stand		CWA	SDWA
	lanager: As 1224 Stan				dress: 5315 Buena Vis /, State, Zip: Calsbad,		- 15	31	0113			105					X		_	DCDA
	e, Zip: Carls				one: 575-689-7597	1111 00220		-	1		Anan	sis and	livietno		1	П	-	-		RCRA
none:					ail: jim.raley@dvn.co	m	L	1 .	15										State	
	ashley.giove	ngo@we	scominc.	com			-		GRO/DRO by 8015 BTEX by 8021	8260	10	0.00		WN	×		NM		JT AZ	TX
Time	0000000	The set	No. of			La	b	UNU/UNU	GRO/DRO by BTEX by 8021	by 82	Metals 6010	Chloride 300.0			C TX		_×			_
ampled	Date Sampled	Matrix	Containers	Sample ID		Num	ber a	CPO CPO	BTEX	VOC by	Meta	Chloi		BGDOC	BGDOC			R	emarks	
9:50	1/25/23	Soil	1 Jar		CONF37 - 4'	1								x						1
9:51	1/25/23	Soil	1 Jar		CONF38 - 4'	2								x						
10:36	1/25/23	Soil	1 Jar		CONF39 - 0'	3								x						
10:41	1/25/23	Soil	1 Jar		CONF40 - 0'	L								x						
10:48	1/25/23	Soil	1 Jar		CONF41 - 0'	4	5							x						
10:55	1/25/23	Soil	1 Jar		CONF42 - 0'	1	0							x						
12:26	1/25/23	Soil	1 Jar		CONF43 - 0'	7	F							x						
11:03	1/25/23	Soil	1 Jar		CONF44 - 0'	ę								x						
13:24	1/25/23	Soil	1 Jar	(	CONF455'	0								x				-		
12:45	1/25/23	Soil	1 Jar		CONF46 - 3'	1	0							x						
ddition	al Instructio	ns: Kep	ot on ice,	Please CC: cole.burton	@wescominc.com, sh	ar.harvester@we	escom	inc.co	om, jir	n.rale	ey@d	lvn.con	n, ashle	ey.gic	oven	go@w	/escomi	nc.com	,	
field com	rella@wesc	minc.co	m d authenticit	y of this sample. I am aware that	at tampering with or intention	ally miclobelling the cor	anlaloca	tion		-	Sample	es requirin	thermal r	reservat	tion mu	ist he rec	eived on ice	the day the	are cample	d or receive
			and and may	be grounds for legal action	Sampled by:	any mislabeling the sar	ipic ioca	nion,		_	C						°C on subset	a sea a para ta se	are sumple	
	ed by: (Signatu		eo or	23 Time Ba	Received by: (Signature)	Date	62	2	me 114	(x)	Rece	eived o	n ice:		ab Us / 🕅	se Onl	y	1		
elinquish	ed by: (Signatur	re)	Date	16-23 Time 1645	Received by: (Signature)	Leni 1-2	627		me (70	D	Т1			Т2			T3			
elinguish	ed by: (Signatur	e)	Date	Time	Received by: (Signature)	Date	last		me		1.		11	-						
Able	mgo fe	ý		26-23 2300	Raine de		2112		8.30			Temp			-			-		_
	rik: 5 - Soil, Sd - S			eous, <b>0</b> - Other ts are reported unless other	arrangements are made							lastic, a					port for th	a analusi	c of the a	have
				eived by the laboratory with									the clien	t expe	inse.	mere	portior ti	ie analysi	s or the a	bove

Reproject Information

Project li	nformation				Cha	iin of Custody												Page 7	of	2
Client:	Devon			1	Bill To				1.	ab U	0	alv	T			TA		EDA D	rogram	
	RDX 17 #002	)			Attention: Jim Raley		Lab	WO#		ab 0.		Number	1	DI	20	3D	Standard	CWA	SDW	
	Manager: As		engo		Address: 5315 Buena Vista Dr			5011				058-00			20	50	X	CWA	5000	-
	1224 Stan				City, State, Zip: Calsbad, NM 88	220	LC	501.	25			ysis and Me		-	-		~	-	RCR	
	te, Zip: Carls				Phone: 575-689-7597		-			1	I		linou	1	-	1	-	V	I IIII	A
	505-382-1		UULLU		Email: jim.raley@dvn.com		L.	S	1.1								Lange -	State		-
	ashley.giove		scominc	com			801	8015	0		1	0					NMI CO	UT AZ	TX	-
Report							0 by	0 by	8021	\$260	010	300		MN	TX		×	OT AL		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	0000	BGDOC	BGDOC			Remarks		
14:47	1/25/23	Soil	1 Jar		CONF47 - 4'	11							1.7	x						
12:52	1/25/23	Soil	1 Jar		CONF48 - 3'	12								x						
15:09	1/25/23	Soil	1 Jar		CONF53 - 3'	13								x						
9:52	1/25/23	Soil	1 Jar		CONF57 Wall - 2'	14							1	x						
9:56	1/25/23	Soil	1 Jar		CONF58 Wall - 2'	15								x						
10:45	1/25/23	Soil	1 Jar		CONF59 Wall - 0'	16								x						
																				_
						1									21					
Additio	al Instructio	ns: Kep	t on ice,	Please CC: cole	burton@wescominc.com, shar.harv	/ester@wesco	mino	c.com	h, jim	n.rale	ey@d	lvn.com, a	ishley.	gio	ven	go@w	/escominc.co	m,		-
srael.es	trella@wesc	minc.co	n								1				_					_
					n aware that tampering with or intentionally misla	belling the sample I	ocation	n,									eived on ice the day °C on subsequent da		ed or receiv	ved
				be grounds for legal		1		1	_		раске	u in ice at an avg	s temp abt	- 1.1	1.00			ιγs.		
	ed by: (Signatu		20 2 Date		Received by: (Signature)) Received by: (Signature) Received by: (Signature)	Date 1-2600	23	lime 11	48	5	Rec	eived on io	ce:		ib Us ∕(N	e Onl	y			
thit	ed by: (Signatu	ruls	- 1-3 Date	2623 166	Received by: (Signature)	1-76 Date	2)	[] Time	200	)	<u>T1</u>		I.	2		_	<u>T3</u>			
Y	ento	Loc			or Rain Schur	1	12		:30		AVO	G Temp °C	4							1
100	trix: S-Soil, Sd - S	olid, Sg - Shu			- Paulo Control		-	<u> </u>		_		lastic, ag - a		las	s. v -	VOA				-
					ess other arrangements are made. Hazardo												port for the ana	vsis of the a	above	-
					tory with this COC. The liability of the labora									P.a.			a second and			
					Pa	ge 29 of 30				E	I	e	n		V	i	rot	e	С	

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	Devon Energy - Carlsbad	ate Received:	01/27/23	08:30	Work Order ID:	E301135
Phone:	(505) 382-1211 E	ate Logged In:	01/26/23	6:29	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com E	ue Date:	02/02/23	17:00 (4 day TAT)		
<u>Chain o</u>	f 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	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requeste	1 analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	ne 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 tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are `	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are	non-VOC samples collected in the correct containers?		Yes			
19. Is the	e appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	<u>ibel</u>					
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
J	Date/Time Collected? Collectors name?		Yes			
			Yes			
		erved?	No			
<u>Sample</u>	s the COC or field labels indicate the samples were pres		110			
Sample 21. Does	s the COC or field labels indicate the samples were pres sample(s) correctly preserved?		NA			
Sample 21. Does 22. Are s	sample(s) correctly preserved?	als?	NA No			
Sample 21. Does 22. Are 24. Is lat	sample(s) correctly preserved? b filteration required and/or requested for dissolved met	als?	NA No			
Sample 21. Does 22. Are s 24. Is lat Multiph	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix		No			
Sample 21. Does 22. Are s 24. Is lat Multiph 26. Does	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphase	,	No No			
Sample 21. Does 22. Are s 24. Is lat <u>Multiph</u> 26. Does 27. If ye	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyze	,	No			
Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If ye Subcont	sample(s) correctly preserved? b filteration required and/or requested for dissolved met <b>ase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase' s, does the COC specify which phase(s) is to be analyze tract Laboratory.	d?	No No NA			
Sample           21. Does           22. Are s           24. Is lab           Multiph           26. Does           27. If ye           Subcont           28. Are s	sample(s) correctly preserved? b filteration required and/or requested for dissolved met nase Sample Matrix s the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyze	d?	No No	Subcontract Lab: NA		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order: E301146

Job Number: 01058-0007

Received: 1/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 2/3/23

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: 2/3/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301146 Date Received: 1/28/2023 7:30:00AM

Ashley Giovengo,





Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/28/2023 7:30:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

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

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

		Sample Sum	mary		
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	RDX 17 #002 01058-0007		Reported:
Artesia NM, 88210		Project Manager:	Ashley Giovengo		02/03/23 11:14
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF49 - 4'	E301146-01A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
CONF50 - 4'	E301146-02A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
CONF51 - 4'	E301146-03A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
'ONF52 - 4'	E301146-04A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
'ONF54 - 2'	E301146-05A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
'ONF55 - 2'	E301146-06A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
'ONF56 - 2'	E301146-07A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.
ONF60 Wall - 2'	E301146-08A	Soil	01/26/23	01/28/23	Glass Jar, 2 oz.



	50	imple D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numbe		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/3/2023 11:14:39AM
	0	CONF49 - 4'				
		E301146-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
p-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/30/23	
Surrogate: n-Nonane		99.1 %	50-200	01/30/23	01/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2305011
Chloride	693	200	10	01/30/23	01/31/23	

	5	ample D	ala			
Devon Energy - Carlsbad	Project Name:		X 17 #002			<b>D</b> (1)
6488 7 Rivers Hwy	Project Number		58-0007		<b>Reported:</b> 2/3/2023 11:14:39AM	
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/3/2023 11:14:39AM
	(	CONF50 - 4'				
		E301146-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
thylbenzene	ND	0.0250	1	01/30/23	01/30/23	
oluene	ND	0.0250	1	01/30/23	01/30/23	
-Xylene	ND	0.0250	1	01/30/23	01/30/23	
,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
otal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
urrogate: 4-Bromochlorobenzene-PID		107 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2305008
asoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	01/30/23	01/30/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/30/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/30/23	
urrogate: n-Nonane		90.6 %	50-200	01/30/23	01/30/23	
anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2305011
Chloride	1450	200	10	01/30/23	01/31/23	



	56	ample D	ala			
Devon Energy - Carlsbad	Project Name:	RDZ	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/3/2023 11:14:39AM
	C	CONF51 - 4'				
	-	E301146-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Foluene	ND	0.0250	1	01/30/23	01/30/23	
o-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/30/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/30/23	
Surrogate: n-Nonane		95.7 %	50-200	01/30/23	01/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2305011
Chloride	1060	400	20	01/30/23	01/31/23	



	56	ample D	ala			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/3/2023 11:14:39AM
	C	CONF52 - 4'				
		E301146-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
p-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/30/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/30/23	
Surrogate: n-Nonane		89.0 %	50-200	01/30/23	01/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2305011
Chloride	644	400	20	01/30/23	01/31/23	



	50	ample D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 2/3/2023 11:14:39AM
	C	CONF54 - 2'				
		E301146-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
o-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/30/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/30/23	
Surrogate: n-Nonane		102 %	50-200	01/30/23	01/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2305011
Chloride	414	20.0	1	01/30/23	01/31/23	



	Sa	imple D	ata			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manage	r: 010:	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 2/3/2023 11:14:39AM
	С	ONF55 - 2'				
	]	E301146-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
p-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		99.2 %	50-200	01/30/23	01/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2305011
Chloride	320	20.0	1	01/30/23	01/31/23	



	56	ampic D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 010	K 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 2/3/2023 11:14:39AM
	C	CONF56 - 2'				
		E301146-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
p-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		94.7 %	50-200	01/30/23	01/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2305011
Chloride	218	20.0	1	01/30/23	01/31/23	



	50	imple D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numbe		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/3/2023 11:14:39AM
	CO	NF60 Wall -	2'			
		E301146-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: SL		Batch: 2305008
Benzene	ND	0.0250	1	01/30/23	01/30/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/30/23	
Toluene	ND	0.0250	1	01/30/23	01/30/23	
p-Xylene	ND	0.0250	1	01/30/23	01/30/23	
o,m-Xylene	ND	0.0500	1	01/30/23	01/30/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	01/30/23	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2305008
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	01/30/23	01/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2305005
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		100 %	50-200	01/30/23	01/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2305011
Chloride	ND	400	20	01/30/23	01/31/23	



# QC Summary Data

		QC D	u111111	in y Dat	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Gioveng	20				<b>Reported:</b> 2/3/2023 11:14:39AM
		, ,		by EPA 802					Analyst: SL
			-	•					Anaryst. 5L
Analyte	Description	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	Result								NT (
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305008-BLK1)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.68		8.00		108	70-130			
LCS (2305008-BS1)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130			
Foluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.93	0.0250	5.00		98.6	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.66		8.00		108	70-130			
Matrix Spike (2305008-MS1)				Source:	E301146-0	4	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Benzene	4.98	0.0250	5.00	ND	99.6	54-133			
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
p-Xylene	5.07	0.0250	5.00	ND	101	63-131			
o,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.57		8.00		107	70-130			
Matrix Spike Dup (2305008-MSD1)				Source:	E301146-0	4	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Benzene	4.98	0.0250	5.00	ND	99.6	54-133	0.0341	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	61-133	0.0804	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	0.00791	20	
p-Xylene	5.06	0.0250	5.00	ND	101	63-131	0.198	20	
p,m-Xylene	9.97	0.0500	10.0	ND	99.6	63-131	0.0913	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.127	20	
Surrogate: 4-Bromochlorobenzene-PID	8.53		8.00		107	70-130			



# **OC Summary Data**

		QC D	u	aly Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 2/3/2023 11:14:39AM
Alusia INNI, 00210	No	nhalogenated C		, ,		RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Allalyst. 3L
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305008-BLK1)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			
LCS (2305008-BS2)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			
Matrix Spike (2305008-MS2)				Source: E	301146-0	04	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Gasoline Range Organics (C6-C10)	56.2	20.0	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			
Matrix Spike Dup (2305008-MSD2)				Source: E	301146-0	04	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130	22.2	20	R3
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			



## QC Summary Data

		QC DI	u I I I I I I	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	(	RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 2/3/2023 11:14:39AM
	Nonh	alogenated Orga	anics by	y EPA 8015D -	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2305005-BLK1)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.0		50.0		100	50-200			
LCS (2305005-BS1)							Prepared: 0	1/30/23 A	analyzed: 01/30/23
Diesel Range Organics (C10-C28)	234	25.0	250		93.8	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			
Matrix Spike (2305005-MS1)				Source: E.	301146-	04	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			
Matrix Spike Dup (2305005-MSD1)				Source: E.	301146-	04	Prepared: 0	1/30/23 A	analyzed: 01/30/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132	1.46	20	
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathcal{Z}$	•••••••						
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	0	RDX 17 #002 1058-0007 Ashley Gioveng	go				<b>Reported:</b> 2/3/2023 11:14:39AM
		Anions	by EPA	<b>300.0/9056</b> A	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2305011-BLK1)							Prepared: 0	1/30/23	Analyzed: 01/31/23
Chloride LCS (2305011-BS1)	ND	20.0					Prepared: 0	1/30/23	Analyzed: 01/31/23
Chloride Matrix Spike (2305011-MS1)	260	20.0	250	Source:	104 <b>E301146-(</b>	90-110 <b>)1</b>	Prepared: 0	1/30/23	Analyzed: 01/31/23
Chloride	889	200	250	693	78.6	80-120	1		M2
Matrix Spike Dup (2305011-MSD1)				Source:	E301146-(	)1	Prepared: 0	1/30/23	Analyzed: 01/31/23
Chloride	912	200	250	693	87.5	80-120	2.48	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 17 #002							
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:						
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/03/23 11:14						

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

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.



Reproject Information

roject li	nformation				Ch	ain of Custody												Page	of
Client:	Devon				Bill To		1		La	ab Us	se Or	nly		1		TA	Т	EPA P	rogram
	RDX 17 #002	2			Attention: Jim Raley		Lab	WO#			Job	Numbe	r	1D	2D	3D	Standard	CWA	SDWA
	Manager: As		engo		Address: 5315 Buena Vista Dr		EZ	501	14	0	010	58-0	500				x		
Address	: 1224 Stan	dpipe Rd			City, State, Zip: Calsbad, NM 8	8220		_				ysis and							RCRA
City, Sta	te, Zip: Carls	bad, NM	88220		Phone: 575-689-7597										1				1
	505-382-1				Email: jim.raley@dvn.com		015	015				1.1			1			State	
	ashley.giove	ngo@we	scominc.	com			by 8015	oy 8(	8021	00	0	0.00		WN			NM CO	UT AZ	TX
Report o	lue by:						RO	ROI	y 80	/ 826	6010	le 3(			1X		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by	VOC by 8260	Metals (	Chloride 300.0		BGDOC	BGDOC			Remarks	
14:50	1/26/23	Soil	1 Jar		CONF49 - 4'	1								x					
14:51	1/26/23	Soil	1 Jar		CONF50 - 4'	2								x					
14:52	1/26/23	Soil	1 Jar		CONF51 - 4'									x					
14:55	1/26/23	Soil	1 Jar		CONF52 - 4'									x					
13:10	1/26/23	Soil	1 Jar		CONF54 - 2'	5			_					x					
13:12	1/26/23	Soil	1 Jar	CONF55 - 2'		6								x					
13:14	1/26/23	Soil	1 Jar		CONF56 - 2'	7						1		x					
14:24	1/26/23	Soil	1 Jar		CONF60 Wall - 2'	g								x					
israel.es	strella@weso	ominc.co	m		burton@wescominc.com, shar.ha	1111 A. 1940		212	n, jim	n.rale			S (2)	10.00		20.85	eived on ice the day	1.6	led or receive
		1 1		y be grounds for legal		and a second					packe	d in ice at a	n avg tem	above	0 but le	ess than 6	°C on subsequent d	ays.	
	ed by: (Signatu	1	Date	) Time	Received by: (Signature)	Date	23	Time	1:1	7	Rec	eived o	n ice:	CY	ab U )/ N	se On	ly		
Relinquist	ed by: (Signato	re)	Date	LT-21 ZI	00 Received by: (Signature)	Date 01-28-	-23	Time	7:30	0	T1			<u>T2</u>			<u>T3</u>		
Relinquist	ned by: (Signatu	re)	Date	e Time	Received by: (Signature)	Date		Time			AVO	G Temp	°c_4	D					
	trix: S - Soil, Sd - S					Container					oly/p	lastic, a	g - amb	er gla					
					ess other arrangements are made. Hazard								the clier	nt expe	ense.	The re	port for the ana	lysis of the	above
samples is	applicable only	to those s	amples rec	eived by the laborat	ory with this COC. The liability of the labor	ratory is limited to 1	the an	nount	paid f	for on	the r								
Samples in					,,					C	3			n	v	ì	rot	9	C

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad Da	te Received:	01/28/23	07:30	Work Order ID:	E301146
Phone:		te Logged In:	01/28/23		Logged In By:	Alexa Michaels
Email:		e Date:		17:00 (4 day TAT)	<u>88</u> j.	
Chain of	Custody (COC)					
1. Does tl	he sample ID match the COC?		Yes			
	he number of samples per sampling site location match	the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
<u>Sample (</u>	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ten	nperature: <u>4°</u>	<u>C</u>			
	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?	11 10	Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
Field Lal						
	field sample labels filled out with the minimum informa ample ID?	ation:	Yes			
	Date/Time Collected?		Yes			
C	Collectors name?		Yes			
Sample H	Preservation					
21. Does	the COC or field labels indicate the samples were prese	rved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved meta	ls?	No			
-	ase Sample Matrix					
	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	1?	NA			
Subcontr	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laboratory?		No			

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



envirotech Inc.

-





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order: E301156

Job Number: 01058-0007

Received: 1/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/6/23

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: 2/6/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E301156 Date Received: 1/31/2023 8:15:00AM

Ashley Giovengo,



Page 210 of 244

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/31/2023 8:15:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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v		Sample Sum	mary		·
Devon Energy - Carlsbad		Project Name:	RDX 17 #002		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		-
Artesia NM, 88210		Project Manager:	Ashley Giovengo		02/06/23 08:23
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 18'	E301156-01A	Soil	01/27/23	01/31/23	Glass Jar, 2 oz.
SS02 - 17.5'	E301156-02A	Soil	01/27/23	01/31/23	Glass Jar, 2 oz.



	50	ampie D	ala			
Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numbe		58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/6/2023 8:23:42AN
		SS01 - 18'				
		E301156-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY	Batch: 2305029	
Benzene	ND	0.0250	1	01/30/23	02/01/23	
Ethylbenzene	ND	0.0250	1	01/30/23	02/01/23	
Toluene	ND	0.0250	1	01/30/23	02/01/23	
p-Xylene	ND	0.0250	1	01/30/23	02/01/23	
o,m-Xylene	ND	0.0500	1	01/30/23	02/01/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	02/01/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/30/23	02/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2305029
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	02/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	01/30/23	02/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2305027
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		76.4 %	50-200	01/30/23	01/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2305033
Chloride	1170	20.0	1	01/31/23	02/01/23	

	5	ample D	ลเล			
Devon Energy - Carlsbad	Project Name:	RD	X 17 #002			
6488 7 Rivers Hwy	Project Numbe	er: 010	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/6/2023 8:23:42AM
	,	SS02 - 17.5'				
		E301156-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2305029
Benzene	ND	0.0250	1	01/30/23	02/01/23	
Ethylbenzene	ND	0.0250	1	01/30/23	02/01/23	
Toluene	ND	0.0250	1	01/30/23	02/01/23	
p-Xylene	ND	0.0250	1	01/30/23	02/01/23	
o,m-Xylene	ND	0.0500	1	01/30/23	02/01/23	
Fotal Xylenes	ND	0.0250	1	01/30/23	02/01/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/30/23	02/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2305029
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	02/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	01/30/23	02/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2305027
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Dil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		75.2 %	50-200	01/30/23	01/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: BA		Batch: 2305033
Chloride	4280	20.0	1	01/31/23	02/01/23	



# QC Summary Data

		QU DI		I J Dut	u				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Gioveng	go				<b>Reported:</b> 2/6/2023 8:23:42AM
		Volatile O	rganics l	by EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305029-BLK1)							Prepared: 0	1/30/23 A	nalyzed: 02/01/23
Benzene	ND	0.0250							,
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
5,m-Xylene Fotal Xylenes	ND	0.0300							
Surrogate: 4-Bromochlorobenzene-PID	7.94	0.0250	8.00		99.2	70-130			
LCS (2305029-BS1)							Prepared: 0	1/30/23 A	nalyzed: 02/01/23
Benzene	4.53	0.0250	5.00		90.6	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130			
Toluene	4.69	0.0250	5.00		93.9	70-130			
p-Xylene	4.73	0.0250	5.00		94.6	70-130			
o,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95	010200	8.00		99.4	70-130			
Matrix Spike (2305029-MS1)				Source:	E301156-0	)1	Prepared: 0	1/30/23 A	nalyzed: 02/01/23
Benzene	4.55	0.0250	5.00	ND	91.0	54-133	-		
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
p-Xylene	4.73	0.0250	5.00	ND	94.6	63-131			
o,m-Xylene	9.32	0.0500	10.0	ND	93.2	63-131			
Fotal Xylenes	14.0	0.0250	15.0	ND	93.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			
Matrix Spike Dup (2305029-MSD1)				Source:	E301156-0	)1	Prepared: 0	1/30/23 A	nalyzed: 02/01/23
Benzene	5.09	0.0250	5.00	ND	102	54-133	11.2	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	11.6	20	
Toluene	5.28	0.0250	5.00	ND	106	61-130	11.5	20	
p-Xylene	5.32	0.0250	5.00	ND	106	63-131	11.7	20	
J-Aylene									
	10.5		10.0	ND	105	63-131	11.6	20	
p.m-Xylene Fotal Xylenes		0.0500 0.0250	10.0 15.0	ND ND	105 105	63-131 63-131	11.6 11.6	20 20	



## **QC Summary Data**

		QC D		ii y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	DX 17 #002 1058-0007 shley Giovengo					<b>Reported:</b> 2/6/2023 8:23:42AM
	No	nhalogenated O	rganics	by EPA 8015	5D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2305029-BLK1)							Prepared: 0	1/30/23 A	nalyzed: 02/01/23
Gasoline Range Organics (C6-C10)	ND	20.0							-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
LCS (2305029-BS2)							Prepared: 0	1/30/23 A	analyzed: 02/01/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			
Matrix Spike (2305029-MS2)				Source: E	301156-0	01	Prepared: 0	1/30/23 A	analyzed: 02/02/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.4	70-130			
Matrix Spike Dup (2305029-MSD2)				Source: E	301156-0	01	Prepared: 0	1/30/23 A	analyzed: 02/01/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.3	70-130	3.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID									


# QC Summary Data

		QC D		ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		RDX 17 #002 1058-0007					Reported:
Artesia NM, 88210		Project Manager:	А	Ashley Giovengo	)				2/6/2023 8:23:42AM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305027-BLK1)							Prepared: 0	1/30/23 A	analyzed: 01/31/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			
LCS (2305027-BS1)							Prepared: 0	1/30/23 A	analyzed: 01/31/23
Diesel Range Organics (C10-C28)	225	25.0	250		89.9	38-132			
Surrogate: n-Nonane	40.9		50.0		81.8	50-200			
Matrix Spike (2305027-MS1)				Source: E	301154-0	05	Prepared: 0	1/30/23 A	analyzed: 01/31/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	40.9		50.0		81.7	50-200			
Matrix Spike Dup (2305027-MSD1)				Source: E	301154-0	05	Prepared: 0	1/30/23 A	analyzed: 01/31/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132	0.135	20	
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			



# **QC Summary Data**

		<u> </u>		v					
Devon Energy - Carlsbad		Project Name:	R	DX 17 #002					Reported:
6488 7 Rivers Hwy		Project Number:	01	1058-0007					•
Artesia NM, 88210		Project Manager	: A	shley Gioveng	go				2/6/2023 8:23:42AM
		Anions	by EPA 3	<b>300.0/9056</b> A	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305033-BLK1)							Prepared: 0	1/31/23 A	Analyzed: 01/31/23
Chloride	ND	20.0							
LCS (2305033-BS1)							Prepared: 0	1/31/23 A	Analyzed: 01/31/23
Chloride	250	20.0	250		99.9	90-110			
LCS Dup (2305033-BSD1)							Prepared: 0	1/31/23 A	Analyzed: 01/31/23
Chloride	250	20.0	250		100	90-110	0.113	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.



_				
	Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/06/23 08:23

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.



icite.	Devon				Bi	То	-		L	ab U	se On	ly				TA	Т		EPA P	rogram
	RDX 17 #002				Attention: Jim Raley		Lal	b WO	#	1.	Job			1D	2D	3D	Stand	lard	CWA	SDWA
	lanager: Asl				Address: 5315 Buena		- <u> </u> E	30	215	0			0007				x			
	1224 Stan e, Zip: Carls				City, State, Zip: Calsba Phone: 575-689-75			1	1	1	Analy	sis an	d Metho	d	-	<u> </u>	_	-		RCRA
	505-382-1		00220					2											State	
	shley.giover		scominc	com	Email:_jim.raley@dvn	com	801	801				0		1.0			NIN		UT AZ	TYL
eport d		ingo e ire.	Sconnic.	<u>com</u>			0 by	VdO	8021	3260	010	300.		MN	X				UT AL	
Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID		La Num	0	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
12:15	1/27/23	Soil	1 Jar		SS01 - 18'	1				-	-	0		x						
12:51	1/27/23	Soil	1 Jar		SS02 - 17.5'	2								x						
		-																	~	
																			1	
								1						1						
-									1								1			
								-									-			
ldition	al Instructio	ns: Kep	t on ice,	Please CC: cole	.burton@wescominc.com	shar.harvester@wo	escomin	nc.com	m, jin	n.rale	ey@d	vn.co	m, ashl	ey.gi	oven	go@w	escomi	nc.com	١,	
eld sam		e validity and	d authentici		n aware that tampering with or inter		nple locati	ion,		-	Contraction of the		ing thermal ; t an avg tem					and the second	ey are sample	ed or receive
	The season of a	Contraction of the	aud and ma Date	y be grounds for lega Time	l action. Sampled b Received by: (Signatu		_	Time	-	-	Packed	ni ice a	t all avg telli	0.0170-00	and Alife On		and the second	quent days	•	
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lid	ed by: (Signatu	lade		3023 17	Beceived by: (Signati	K 1-3	0-23		30	6	<u>T1</u>			<u>T2</u>			<u>T3</u>			
tor	ng A	en		30-23 2	315 Couth	hat 1/3	1/23	8	15	-		Tem		f						
	rix: S-Soil, Sd - S											_	ag - amb				-			
					less other arrangements are mad atory with this COC. The liability of								t the clier	nt expe	ense.	The rep	port for t	ne analys	sis of the a	above

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Email:       ashleygiovesco@wescomine.com       Due Date:       0206/23 17:00 (4 day TAT)         Chain of Custody (COC)       .       .       .         1. Does the sample ID match the COC?       Yes       .         2. Does the number of samples per sampling site location match the COC       Yes       .         3. Were samples dropped off by client or carrier?       Yes       Carrier: Courier         4. Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Note: Analysis, such as pit Which should be conducted in the field, i.e., 15 mixure hold time, are not included in this discussion.       Yes         Sample Contron Around Time (TAT)       Yes       Sample Cooler       Yes         6. Did the COC indicate standard TAT, or Expedited TAT?       Yes       Sample Cooler       Yes         9. Was the sample (s) received inter, i.e., not broken?       Yes       Yes       No         10. Were custody/security seals intact?       No       No       No         11. If yes, were custody/security seals intact?       No       No       No         13. If no visible ice, record the temperature.       Actual samples are received wit 15 minutes of samples are received wit 15 minutes of samples collected in VOA Vials?       NA         14. Are aqueous VOC samples present?       No       NA       Actual sample collected? <td< th=""><th>Devon Energy - Carlsbad Date Rev</th><th>ceived: 01/31/23</th><th>3 08:15</th><th>Work Orde</th><th>r ID: E301156</th></td<>	Devon Energy - Carlsbad Date Rev	ceived: 01/31/23	3 08:15	Work Orde	r ID: E301156
Chain of Custody (COC)       1. Does the sample D 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, datextiftines, requested analyses?       Yes         5. Were all samples received within holding time?       Yes         Yes       Yes         5. Were all samples received within holding time?       Yes         Yes       Yes         Sample Turn Around Time (TAT)       Fees         Sample Cooler       Yes         7. Was a sample cooler received in good condition?       Yes         9. Was the sample cooler received in good condition?       Yes         9. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6*±2°C       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         Sample Container       Actual sample temperature: $\frac{4°C}{2°C}$ Sample Container       I.e. one vold with the minimum information:         13. If no visible ice, record the temperature: $\frac{4°C}{2°C}$ No         Sample Container       Yes	(505) 382-1211 Date Lo	gged In: 01/30/23	3 16:03	Logged In	By: Caitlin Christia
<ul> <li>L. Does the sample ID match the COC?</li> <li>Yes</li> <li>L. Does the number of samples per sampling site location match the COC</li> <li>Yes</li> <li>Were samples dropped off by client or carrier?</li> <li>Yes</li> <li>Was the COC complete, i.e., signatures, dates/times, requested analyses?</li> <li>Yes</li> <li>Nere all samples received within holding time?</li> <li>Yes</li> <li>Nere all samples received within holding time?</li> <li>Yes</li> <li>Nere all samples received within holding time?</li> <li>Yes</li> <li>Source ID within hold time, are not included in this disasesion.</li> <li>Samule Turn Around Time (TAT)</li> <li>So Lidt the COC indicate standard TAT, or Expedited TAT?</li> <li>Yes</li> <li>Sample Cooler received in good condition?</li> <li>Yes</li> <li>Yes as asomple cooler received in fact, i.e., not broken?</li> <li>Yes</li> <li>Nas a sample cooler received in fact, i.e., not broken?</li> <li>Yes</li> <li>Nas a sample received nice? If yes, the recorded temp is 4°C, i.e., 6°+2°C</li> <li>Yes</li> <li>Ner: Thermal preservation is not required, if samples are received wit 15 minutes of sampling</li> <li>If no visible ice, record the temperature. Actual sample temperature: 4°C</li> <li>Sample Container</li> <li>I. Are a quecous VOC samples present?</li> <li>No</li> <li>If a visible ice, record the temperature. Actual sample temperature: 4°C</li> <li>Sample Container</li> <li>I. Are a quecous OCC samples collected in VOA Vials?</li> <li>NA</li> <li>I. Sample labels filled out with the minimum information:</li> <li>Sample ID?</li> <li>Yes</li> <li>Date Cord ridel tables indicate the samples were preserved?</li> <li>No</li> <li>Sample ID?</li> <li>Sample labels filled out with the minimum information:</li> <li>Sample ID?</li> <li>Sample ID?</li> <li>Yes</li> <li>Date firme Collected?</li> <li>Yes</li> <li>Collectors name?</li> <li>No</li> <li>Sample ID?</li> <li>Sample labels filled out with the minimum information:</li> <li>Sample ID?</li> <li>Sample ID?</li> <li>No</li> <li>Sample ID?<th>ashley.giovengo@wescominc.com Due Dat</th><th>te: 02/06/2</th><th>3 17:00 (4 day TAT)</th><th></th><th></th></li></ul>	ashley.giovengo@wescominc.com Due Dat	te: 02/06/2	3 17:00 (4 day TAT)		
2. Does the number of samples per sampling site location match the COC       Yes         3. Were samples dropped off by client or carrie?       Yes         4. Wasthe CoC complete, i.e., signatures, dates/times, requested analyses?       Yes         5. Were all samples received within holding time?       Yes         5. Were all samples received within holding time?       Yes         5. More instant hold time, are not included in this diseasesion.       Comments/Recoil         5. More clinates standard TAT, or Expedited TAT?       Yes         5. Did the COC indicate standard TAT, or Expedited TAT?       Yes         7. Was a sample cooler received?       Yes         0. Were custody/security seals present?       No         11. If yes, were custody/security seals present?       No         12. Mash as ample coler received in temp is 4°C, i.e., 6°*2°C       Yes         Note: Themal preservation is not required, if samples are received wil 15 minutes of sampling       Na         13. If no visible ice, record the temperature.       4°C         14. Are aqueous VOC samples collected in VOA Vials?       NA         15. Are VOC samples collected in VOA Vials?       NA         16. Is the head space last than 6-8 mm (pea sized or less)?       NA         17. Was a trip blank (TB) included for VOC analyses?       Yes         19. Is the appropriate volume/weight or number of sample	Custody (COC)				
3. Were samples dropped off by client or carrier? Yes Carrier: Courier: Cou	e sample ID match the COC?	Yes			
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes Not: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. Samule 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 intext, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intext? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°4.2°C Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: $\frac{4°C}{2}$ Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? 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 Date Time Collected? Yes Collectors name? No Sample Collected? Yes Collectors mane? No Sample Collected? Yes Collectors mane? No Sample free. The collected? Yes Collectors name? No Sample Sollected in the orrect containers? Yes Date Time Collected? Yes Collectors name? No Sample free. Yes Sample have more than one phase, i.e., multiphase? No 21. fy yes, does the COC specify which phase(s) is to be analyzed? NA	e number of samples per sampling site location match the C	COC 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.         Sample Cooler       Yes         6. Did the COC indicate standard TAT; or Expedited TAT?       Yes         Sample Cooler       Yes         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., no borken?       Yes         9. Was the sample received on iterd, if samples are received will 15 minutes of sampling       No         10. Were custody/security seals intact?       NA         12. was the sample received on ice of treps, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Not: Thermal presenvation is not required, if samples are received will 15 minutes of sampling       No         13. If no visible ice, record the temperature. Actual sample temperature: 4°C       Sample Container         14. Are aqueous VOC samples collected in the correct containers?       Yes         15. Are VOC samples collected in the correct containers?       Yes         16. Is the head space less than 6-8 mm (pea sized or less)?       NA         16. Is the papropriate volume/weight on number of sample containers collected?       Yes         20. Were field sample labels filled out with the minimum in	imples dropped off by client or carrier?	Yes	Carrier: Couri	ier	
Noti: Analysis, such as pfl which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.       Comments/Recol         Sample Turk Around Time (TAT)       Yes         6. Did the COC indicate standard TAT, or Expedited TAT?       Yes         Sample Soler received in good condition?       Yes         9. Was as ample color received in good condition?       Yes         9. Was the sample (s) received intact, i.e., not broken?       Yes         10. Were custedy/security seals intact?       No         11. If yes, were custedy/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 wi 15 minutes of sampling       Na         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 the correct containers?       Yes         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 orrect containers?       Yes         Date/Time Collected?       Yes         Collectors name?       No         20. Ares field sample labels f	e COC complete, i.e., signatures, dates/times, requested analy	yses? Yes			
b. Did the COC indicate standard TAT, or Expedited TAT?       Yes         Sample Cooler	Note: Analysis, such as pH which should be conducted in the field			Con	nments/Resolution
Sample Cooler         7. Was a sample cooler received?       Yes         8. If yes, was cooler received in god condition?       Yes         8. If yes, was cooler received intact, i.e., not broken?       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         Deta/Time Collected?       Yes         Collectors name?       No         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No         Sample IPS       Yes         Date/Time Col	<u>urn Around Time (TAT)</u>				
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         Not:: Thermal preservation is not required, if samples are received wil 15 minutes of sampling       NA         13. If no visible ice, record the temperature. Actual sample temperature: 4°C       Yes         Sample Container       Image: Sample good of the temperature. Actual sample temperature: 4°C         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         Field Label       Zonter Time Collected?       Yes         O. Were field sample labels filled out with the minimum information:       Sample Encelected?       Yes         Ollectors name?       No       No       Sample Encelected?       Yes         Date/Time Collected?       Yes       No <td>COC indicate standard TAT, or Expedited TAT?</td> <td>Yes</td> <td></td> <td></td> <td></td>	COC indicate standard TAT, or Expedited TAT?	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         Not: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling       No         13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> 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         Field Label       Yes         20. Were field sample labels filled out with the minimum information:       Sample 1D?         Sample D?       Yes         Oldectors name?       No         21. Does the COC or fiel labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       Na         24. Is lab filteration required and/or requested for dissolved metals?       No         Multi	ooler				
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         Not: 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?       NA         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         Field Label       Yes         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample DP?       Yes         Ollectors name?       No         Sample Preservation       No         21. Slab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         26. Does the Sample have more than one phase, i.e., multiphase?       No         Multiphase Gauple Ave one than one phase, is to be analyzed?<	ample cooler received?	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       minimutes 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         Field Label       20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample Preservation       Yes       Collector's name?         21. Does the COC or field labels indicate the samples were preserved?       No         Sample Preservation       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         26. Does the sample have more than one phase, i.e., multiphase?       No         Multiphase Sampl	vas cooler received in good condition?	Yes			
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       II. 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         Field Label       Yes         0. Were field sample labels filled out with the minimum information:       Sample ID?         Sample Preservation       Yes         20. Were field sample labels indicate the samples were preserved?       No         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         Multiphase Gaust th	e sample(s) received intact, i.e., not broken?	Yes			
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 <b>Field Label</b> 20.         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         21. Does the COC or required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       26. Does the sample have more than one phase, i.e., multiphase?       No         21. fyes, does the COC specify which phase(s) is to be analyzed?       Na	custody/security seals present?	No			
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         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       No         23. Lis lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       2         26. Does the sample have more than one phase, i.e., multiphase?       No         Art sample have more than one phase, i.e., multiphase?       No         Art if yes, does the COC specify which phase(s) is to be analyzed?       Na	were custody/security seals intact?	NA			
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?         20. Were field sample labels filled out with the minimum information:       Sample ID?       Yes         Date/Time Collected?       Yes       Collectors name?       No         Sample Preservation       No       No       Sample Sourcetly preserved?       No         21. Does the COC or field labels indicate the samples were preserved?       No       No       Sample Sourcetly preserved?       No         22. Are sample(s) correctly preserved?       NA       No       Multiphase Sample Matrix       No         26. Does the sample have more than one phase, i.e., multiphase?       No       No       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       NA       Na	Note: Thermal preservation is not required, if samples are received				
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?         20. Were field sample labels filled out with the minimum information:       Yes         Date/Time Collected?       Yes         Collectors name?       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       26. Does the sample have more than one phase, i.e., multiphase?       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       NA	visible ice, record the temperature. Actual sample tempera	ature: <u>4°C</u>			
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       Yes         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         71. If yes, does the COC specify which phase(s) is to be analyzed?       NA	ontainer				
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 <b>Field Label</b> 20. Were field sample labels filled out with the minimum information:         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No <b>Sample Preservation</b> 21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yo         26. Does the sample have more than one phase, i.e., multiphase?       No         71. If yes, does the COC specify which phase(s) is to be analyzed?       NA	ueous VOC samples present?	No			
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       Yes         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No         Sample Preservation       Yes         21. Does the COC of field labels indicate the samples were preserved?       No         Sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         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	OC samples collected in VOA Vials?	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       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         77. If yes, does the COC specify which phase(s) is to be analyzed?       NA	head space less than 6-8 mm (pea sized or less)?	NA			
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       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         7. If yes, does the COC specify which phase(s) is to be analyzed?       NA	trip blank (TB) included for VOC analyses?	NA			
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       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         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	on-VOC samples collected in the correct containers?	Yes			
20. Were field sample labels filled out with the minimum information:       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       No         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         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	ppropriate volume/weight or number of sample containers colle	ected? Yes			
Sample ID?YesDate/Time Collected?YesCollectors name?NoSample Preservation1000000000000000000000000000000000000					
Date/Time Collected? Collectors name?YesSample PreservationNo21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample Matrix26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NA					
Collectors name?NoSample PreservationNo21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample Matrix26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NA	*				
Sample Preservation       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       26. Does the sample have more than one phase, i.e., multiphase?       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       NA					
21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample Matrix26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NA		110			
22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       26. Does the sample have more than one phase, i.e., multiphase?       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       NA		? 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	× *				
26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NA	filteration required and/or requested for dissolved metals?	No			
26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NA	se Sample Matrix				
27. If yes, does the COC specify which phase(s) is to be analyzed? NA		No			
Subcontract Laboratory					
	act Laboratory				
28. Are samples required to get sent to a subcontract laboratory? No		No			
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA			Subcontract Lab: NA	A	

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







5796 U.S. Hwy 64 Farmington, NM 87401

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





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# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX

RDX 17 #002

Work Order: E302072

Job Number: 01058-0007

Received: 2/15/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 2/20/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 2/20/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX 17 #002 Workorder: E302072 Date Received: 2/15/2023 7:30:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/15/2023 7:30:00AM, under the Project Name: RDX 17 #002.

The analytical test results summarized in this report with the Project Name: RDX 17 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

**Southern New Mexico Area Lynn Jarboe** Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

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		Sumpresum	iiiai y		
Devon Energy - Carlsbad		Project Name:	RDX 17 #002		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		Keporteu.
Artesia NM, 88210		Project Manager:	Ashley Giovengo		02/20/23 11:31
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
	P		~~ <b>P</b>		
SS06A-0'	E302072-01A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CONF27-5.5'	E302072-02A	Soil	02/14/23	02/15/23	Glass Jar, 2 oz.
CONF29-5.5'	E302072-03A	Soil	02/14/23	02/15/23	Glass Jar, 2 oz.
CONF33-5'	E302072-04A	Soil	02/14/23	02/15/23	Glass Jar, 2 oz.
CONF45-1.5'	E302072-05A	Soil	02/14/23	02/15/23	Glass Jar, 2 oz.



	50	imple D	ala			
Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numbe		58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ley Giovengo			2/20/2023 11:31:51AN
		SS06A-0'				
	]	E302072-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/16/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/16/23	
Toluene	ND	0.0250	1	02/15/23	02/16/23	
o-Xylene	ND	0.0250	1	02/15/23	02/16/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/16/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/16/23	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	02/15/23	02/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	02/15/23	02/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
Surrogate: n-Nonane		101 %	50-200	02/16/23	02/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2307027
Chloride	51.4	20.0	1	02/15/23	02/15/23	



		imple D				
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Numbe		X 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	er: Ash	ey Giovengo			2/20/2023 11:31:51AM
	С	ONF27-5.5'				
	]	E302072-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2307023
enzene	ND	0.0250	1	02/15/23	02/16/23	
thylbenzene	ND	0.0250	1	02/15/23	02/16/23	
oluene	ND	0.0250	1	02/15/23	02/16/23	
-Xylene	ND	0.0250	1	02/15/23	02/16/23	
,m-Xylene	ND	0.0500	1	02/15/23	02/16/23	
otal Xylenes	ND	0.0250	1	02/15/23	02/16/23	
urrogate: 4-Bromochlorobenzene-PID		104 %	70-130	02/15/23	02/16/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2307023
asoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/16/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	02/15/23	02/16/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2307029
viesel Range Organics (C10-C28)	210	25.0	1	02/16/23	02/16/23	
vil Range Organics (C28-C36)	189	50.0	1	02/16/23	02/16/23	
urrogate: n-Nonane		106 %	50-200	02/16/23	02/16/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2307027
hloride	5110	400	20	02/15/23	02/15/23	



	50	imple D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 0105	X 17 #002 58-0007 ley Giovengo			<b>Reported:</b> 2/20/2023 11:31:51AM
	С	ONF29-5.5'				
	]	E302072-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
thylbenzene	ND	0.0250	1	02/15/23	02/17/23	
oluene	0.0365	0.0250	1	02/15/23	02/17/23	
-Xylene	ND	0.0250	1	02/15/23	02/17/23	
,m-Xylene	0.0801	0.0500	1	02/15/23	02/17/23	
otal Xylenes	0.0801	0.0250	1	02/15/23	02/17/23	
urrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	02/15/23	02/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	02/15/23	02/17/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	98.7	25.0	1	02/16/23	02/16/23	
Dil Range Organics (C28-C36)	126	50.0	1	02/16/23	02/16/23	
urrogate: n-Nonane		99.9 %	50-200	02/16/23	02/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2307027
Chloride	3880	400	20	02/15/23	02/15/23	



	58	imple D	ลเล			
Devon Energy - Carlsbad	Project Name:		X 17 #002			
6488 7 Rivers Hwy	Project Numbe		58-0007	Reported:		
Artesia NM, 88210	Project Manage	er: Ash	ley Giovengo			2/20/2023 11:31:51AM
	(	CONF33-5'				
	]	E302072-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2307023
enzene	ND	0.0250	1	02/15/23	02/17/23	
thylbenzene	ND	0.0250	1	02/15/23	02/17/23	
oluene	ND	0.0250	1	02/15/23	02/17/23	
Xylene	ND	0.0250	1	02/15/23	02/17/23	
m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
otal Xylenes	ND	0.0250	1	02/15/23	02/17/23	
urrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	02/15/23	02/17/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2307023
asoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	02/15/23	02/17/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: RAS		Batch: 2307029
iesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
il Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
urrogate: n-Nonane		102 %	50-200	02/16/23	02/16/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2307027



	5	ample D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number	er: 010	K 17 #002 58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Ash	ley Giovengo			2/20/2023 11:31:51AM
	0	CONF45-1.5'				
		E302072-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ithylbenzene	ND	0.0250	1	02/15/23	02/17/23	
oluene	ND	0.0250	1	02/15/23	02/17/23	
-Xylene	ND	0.0250	1	02/15/23	02/17/23	
,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
otal Xylenes	ND	0.0250	1	02/15/23	02/17/23	
urrogate: 4-Bromochlorobenzene-PID		101 %	70-130	02/15/23	02/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	02/15/23	02/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
urrogate: n-Nonane		101 %	50-200	02/16/23	02/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2307027
Chloride	466	200	10	02/15/23	02/15/23	



# QC Summary Data

		QC D	ummu	ing Duc					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		DX 17 #002 1058-0007					Reported:
Artesia NM, 88210		Project Manager:							2/20/2023 11:31:51AM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2307023-BLK1)							Prepared: 0	2/15/23 A	analyzed: 02/16/23
Benzene	ND	0.0250							· ·
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	70-130			
LCS (2307023-BS1)							Prepared: 0	2/15/23 A	analyzed: 02/16/23
Benzene	4.79	0.0250	5.00		95.9	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.99	0.0250	5.00		99.9	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			
Matrix Spike (2307023-MS1)				Source:	E302072-0	01	Prepared: 0	2/15/23 A	analyzed: 02/16/23
Benzene	4.58	0.0250	5.00	ND	91.6	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.5	61-133			
Toluene	4.74	0.0250	5.00	ND	94.8	61-130			
p-Xylene	4.76	0.0250	5.00	ND	95.3	63-131			
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			
Matrix Spike Dup (2307023-MSD1)				Source:	E302072-	01	Prepared: 0	2/15/23 A	analyzed: 02/16/23
Benzene	4.75	0.0250	5.00	ND	95.0	54-133	3.61	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133	4.44	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	3.94	20	
p-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	4.11	20	
			10.0	1.12		(2,121	4.54	20	
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131	4.34	20	
p,m-Xylene Total Xylenes	9.79 14.8	0.0500 0.0250	10.0	ND ND	97.9 98.4	63-131	4.34	20 20	



# **QC Summary Data**

		QC D	u1111116	ii y Data	L					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX 17 #002 1058-0007 shley Giovengo	0				<b>Reported:</b> 2/20/2023 11:31:51AM	
	No	nhalogenated C	rganics	by EPA 801	5D - Gl	RO			Analyst: IY	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
	ilig/kg	ilig/kg	iiig/kg	ilig/kg	70	70	70	70	INOLES	
Blank (2307023-BLK1)							Prepared: 0	2/15/23 A	nalyzed: 02/16/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130				
LCS (2307023-BS2)							Prepared: 0	2/15/23 A	nalyzed: 02/16/23	
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130				
Matrix Spike (2307023-MS2)				Source: E302072-01			Prepared: 02/15/23 Analyzed: 02/17/23			
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130				
Matrix Spike Dup (2307023-MSD2)				Source: I	E <b>302072-</b> (	01	Prepared: 0	2/15/23 A	nalyzed: 02/16/23	
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	86.1	70-130	5.60	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130				



# QC Summary Data

		QC D	umm	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:		RDX 17 #002 01058-0007 Ashley Giovengo					<b>Reported:</b> 2/20/2023 11:31:51AM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2307029-BLK1)							Prepared: 0	2/16/23 A	Analyzed: 02/16/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	58.4		50.0		117	50-200			
LCS (2307029-BS1)							Prepared: 0	2/16/23 A	Analyzed: 02/16/23
Diesel Range Organics (C10-C28)	208	25.0	250		83.4	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2307029-MS1)				Source: E	302072-	01	Prepared: 0	2/16/23 A	Analyzed: 02/16/23
Diesel Range Organics (C10-C28)	212	25.0	250	ND	84.9	38-132			
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			
Matrix Spike Dup (2307029-MSD1)				Source: E	302072-	01	Prepared: 0	2/16/23 A	Analyzed: 02/16/23
Diesel Range Organics (C10-C28)	200	25.0	250	ND	79.9	38-132	6.09	20	
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			



# **QC Summary Data**

			••••••		•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	C	RDX 17 #002 01058-0007 Ashley Giovenge	0				<b>Reported:</b> 2/20/2023 11:31:51Al
		, ,		300.0/9056A					Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
Blank (2307027-BLK1)							Prepared: 0	2/15/23	Analyzed: 02/15/23
Chloride	ND	20.0							
LCS (2307027-BS1)							Prepared: 0	2/15/23	Analyzed: 02/15/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2307027-MS1)	Source: E302072-01 Prepared: 02							2/15/23	Analyzed: 02/15/23
Chloride	303	20.0	250	51.4	101	80-120			
Matrix Spike Dup (2307027-MSD1)				Source: l	E302072-(	01	Prepared: 0	2/15/23	Analyzed: 02/15/23
Chloride	310	20.0	250	51.4	104	80-120	2.41	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.



Devon Energy - Carlsbad	Project Name:	RDX 17 #002	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/20/23 11:31

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.



ent:	Pero	n				Bill To			Lab Use Only								TAT	Г		EPA Pr	ogram
ject:	RPX	17	H002	<u> </u>	Attention: Ji Address: <b>93</b> City, State, Zip(a, Phone: <b>979</b> Email: Jim . r	m Raley	1 6	Lab	Lab WO# Job Number E 302072 01056-0007					1D	2D	3D	Standar	d (	CWA	SDWA	
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				sults are reported unle	s other arrangements	are made. Hazardous												port for the	analysi	s of the a	above
ples is	applicable or	ly to those	e samples re	eceived by the laborate	ry with this COC. The li	ability of the laborator	y is limited to	o the a	mount	t paid	for on	the re	port.								

#### **Envirotech Analytical Laboratory**

lient: Devon Energy - Carlsbad D	ate Received:	02/15/23	07:30	Work Order ID:	E302072
hone: (505) 382-1211 D	ate Logged In:	02/15/23	09:48	Logged In By:	Alexa Michaels
mail: ashley.giovengo@wescominc.com D	ue Date:	02/21/23	07:00 (4 day TAT)		
hain of Custody (COC)					
. Does the sample ID match the COC?		Yes			
. Does the number of samples per sampling site location match	the COC	Yes			
. Were samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was the COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
ample Turn Around Time (TAT) . Did the COC indicate standard TAT, or Expedited TAT?		Yes			
ample Cooler					
. Was a sample cooler received?		Yes			
. If yes, was cooler received in good condition?		Yes			
. Was the sample(s) received intact, i.e., not broken?		Yes			
0. Were custody/security seals present?		No			
1. If yes, were custody/security seals intact?		NA			
<ol> <li>Was the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling</li> <li>If no visible ice, record the temperature. Actual sample temperature.</li> </ol>	ceived w/i 15	Yes			
ample Container	-				
4. Are aqueous VOC samples present?		No			
5. Are VOC samples collected in VOA Vials?		NA			
6. Is the head space less than 6-8 mm (pea sized or less)?		NA			
7. Was a trip blank (TB) included for VOC analyses?		NA			
8. Are non-VOC samples collected in the correct containers?		Yes			
9. Is the appropriate volume/weight or number of sample container	s collected?	Yes			
ield Label					
0. Were field sample labels filled out with the minimum inform	nation:	37			
Sample ID? Date/Time Collected?		Yes			
Collectors name?		Yes Yes			
ample Preservation		100			
1. Does the COC or field labels indicate the samples were prese	erved?	No			
2. Are sample(s) correctly preserved?		NA			
4. Is lab filteration required and/or requested for dissolved met	als?	No			
<u>Iultiphase Sample Matrix</u>					
6. Does the sample have more than one phase, i.e., multiphase?	•	No			
7. If yes, does the COC specify which phase(s) is to be analyze	d?	NA			
ubcontract Laboratory					
8. Are samples required to get sent to a subcontract laboratory?	,	No			
9. Was a subcontract laboratory specified by the client and if so					

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



# ATTACHMENT F

# 48-Hour Confirmation Sampling Notification Emails



From:	Cole Burton
To:	OCD. Enviro (ocd.enviro@emnrd.nm.gov)
Cc:	Raley, Jim; Joey Croce; Ashley Giovengo; Shar Harvester; Cody York
Subject:	RE: 48-Hour Confirmation Sample Notice - RDX 17 #002 (nAPP2229038558)
Date:	Monday, January 23, 2023 5:24:00 PM

Hello All,

We intend to take confirmation samples at the RDX 17 #002 (nAPP2229038558) starting on Wednesday (1/25/23) through Friday (1/27/23).

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

Thanks,

Cole Burton, Environmental Field Technician O (218) 724-1322 | C (505) 205-0455 WescomInc.com | cole.burton@WescomInc.com "I am in charge of my own safety."

From: Cole Burton

Sent: Monday, January 16, 2023 8:49 AM
To: OCD. Enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>
Cc: Raley, Jim <jim.raley@dvn.com>; Joey Croce <Joey.Croce@WescomInc.com>; Ashley Giovengo
<ashley.giovengo@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Cody York
<cody.york@wescominc.com>
Subject: 48-Hour Confirmation Sample Notice - RDX 17 #002 (nAPP2229038558)

Hello All,

We intend to take confirmation samples at the RDX 17 #002 (nAPP2229038558) starting on Wednesday (1/18/23) through Friday (1/20/23).

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

Thanks,

**Cole Burton**, Environmental Field Technician O (218) 724-1322 | C (505) 205-0455 <u>WescomInc.com</u> | cole.burton@WescomInc.com "I am in charge of my own safety."

From:	Cole Burton
To:	OCD. Enviro (ocd.enviro@emnrd.nm.gov)
Cc:	Ashley Giovengo; Shar Harvester; Cody York; Raley, Jim; Joey Croce
Subject:	48-Hour Confirmation Sample Notice - RDX 17 #002 (nAPP2229038558)
Date:	Friday, February 10, 2023 7:10:00 AM

Hello All,

We intend to take confirmation samples at the RDX 17 #002 (nAPP2229038558) starting on Tuesday (2/14/23).

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

Thanks,

Cole Burton, Environmental Field Technician O (218) 724-1322 | C (505) 205-0455 WescomInc.com | cole.burton@WescomInc.com "I am in charge of my own safety."

# ATTACHMENT G

**Extension Request** 



#### **Ashley Giovengo**

From:	Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov></robert.hamlet@emnrd.nm.gov>
Sent:	Thursday, December 15, 2022 1:37 PM
То:	Raley, Jim
Cc:	Ashley Giovengo; Cole Burton; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Approval) RDX 17-2H - nAPP2229038558
Follow Up Flag: Flag Status:	Follow up Flagged

#### RE: Incident #NAPP2229038558

Jim,

Your request for an extension to **April 13th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, December 15, 2022 1:20 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] RDX 17-2H Extension Request - nAPP2229038558

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



From: Raley, Jim <<u>Jim.Raley@dvn.com</u>>
Sent: Thursday, December 15, 2022 12:44 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Ashley Giovengo <<u>ashley.giovengo@wescominc.com</u>>; Cole Burton <<u>cole.burton@wescominc.com</u>>
Subject: [EXTERNAL] RDX 17-2H Extension Request - nAPP2229038558

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

#### NMOCD Staff,

WPX Energy is requesting and extension for Incident nAPP2229038558. This was a major release that occurred 10/15/2022 in which a tank battery caught fire due to a lightning strike, completely destroying the battery (18bbls Oil/439bbls released, 0 recovered). This fire led to the well plug and abandonment, as the expense to rebuild was not justified. Burned tanks and equipment had to be removed from the location and the site prepared before we were able to begin site assessment and prepare for remediation. The site has several feet of hard caliche which will require specialized excavation equipment to complete remediation. A bid walk was conducted today 12/15/2022 to allow contractors to propose pricing for this specialized excavation. We plan on starting the excavation immediately after the New Year.

All free liquids and obviously impacted soils have been removed from the location. A berm has been placed around the entire location to prevent any runoff, should we receive precipitation.

With the delays imposed by equipment removal, plugging of the well and difficult excavation conditions; WPX asks for a 90 day extension from the current deadline, extending to April, 13<sup>th</sup> 2023.

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



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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	199182
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2229038558 RDX 17 #002, thank you. This closure is approved. 8/2/2023 rhamlet

CONDITIONS

Action 199182

Condition Date