

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Oil Conservation Division

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 10/30/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Date:

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 10/30/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Pima Environmental Services, LLC
5614 N. Lovington Hwy.
Hobbs, NM 88240
575-964-7740

October 23, 2023

NMOCD District 2
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

Re: Site Assessment and Closure Report
Roche Federal #1
API No. 30-015-25972
GPS: Latitude 32.76001132 Longitude -103.906605
UL J, Sec. 7, T18S, R31E
Eddy County, NM
NMOCD Ref. No. NAPP2320133653

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a crude oil release that occurred at the Roche Federal #1 (Roche). The initial C-141 was submitted on August 2, 2023 (Appendix C). This incident was assigned Incident ID NAPP2320133653, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Roche is located approximately six (6) miles southeast of Loco Hills, NM. This spill site is in Unit J, Section 7, Township 18S, Range 31E, Latitude 32.76001132 Longitude -103.906605, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino-Pajarito complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the Roche (Figure 3).

According to the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this area is 430 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 260 feet BGS. The closest waterway is a salt playa located approximately 6 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAPP2320133653: On July 19, 2023, a pinhole developed on a casing line, which caused fluid to release into the pasture. The release was .54 of a barrel of Crude Oil. No fluid was recovered from the area.

Site Assessment and Soil Sampling Results

On September 27, 2023, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table. Photographic documentation can be found in Appendix D.

9/27/23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - ROCHE FEDERAL CTB								
Sample Date: 9-27-23		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
SW 5	6"	ND	ND	ND	ND	ND	0	ND
SW 6	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory results can be found in Appendix E.

Remediation Activities

The sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no remediation activities were needed at this location.

Closure Request

After careful review, Pima requests that this incident, NAPP2320133653, be closed. Devon has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 575-964-7740 or gio@pimaoil.com

Respectfully,



Gio Gomez
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A - Referenced Water Surveys
- Appendix B - Soil Survey and Geological Data
- Appendix C - C-141 Form
- Appendix D - Photographic Documentation
- Appendix E - Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map



3-Karst Map

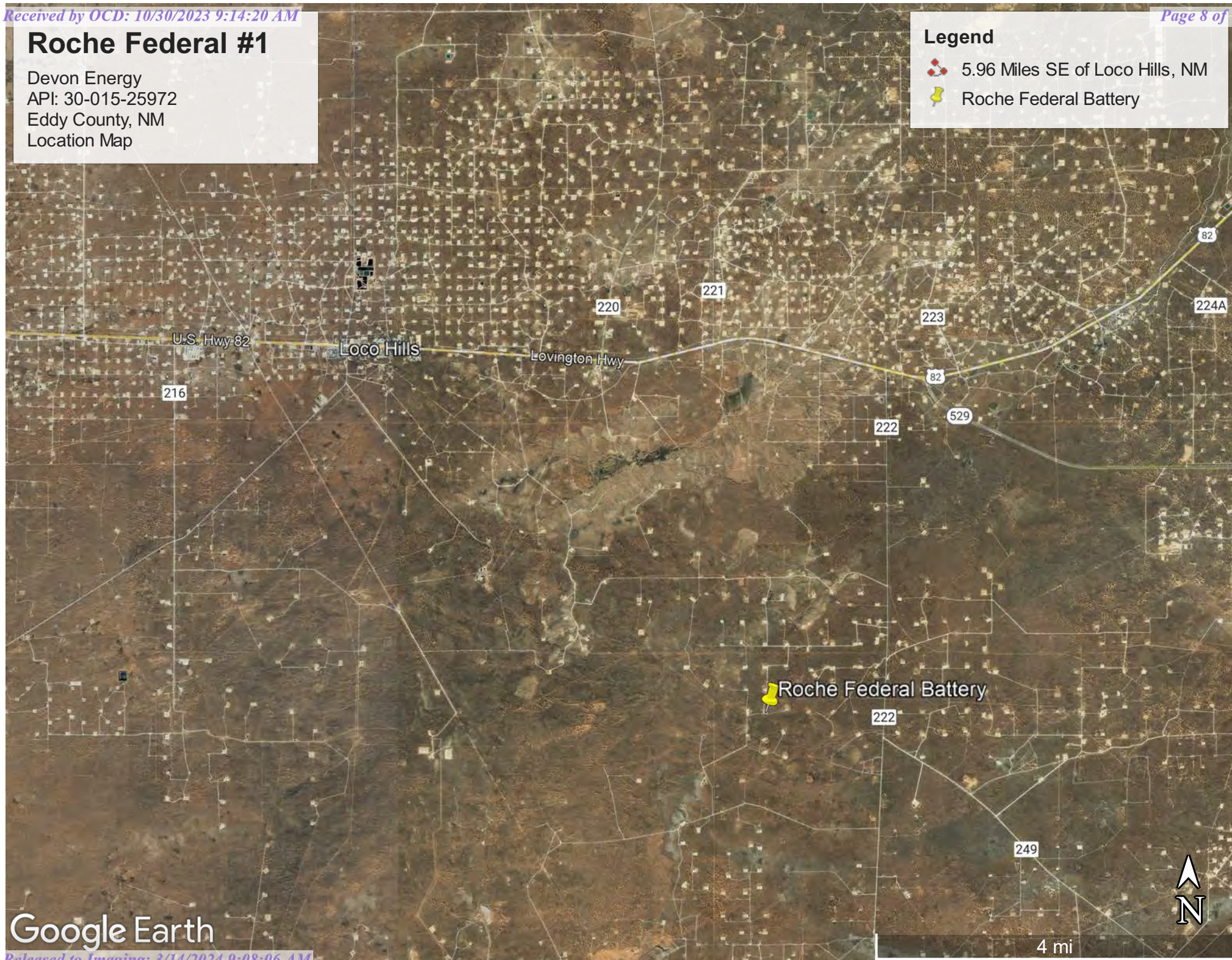
4-Site Map

Roche Federal #1

Devon Energy
API: 30-015-25972
Eddy County, NM
Location Map


Legend

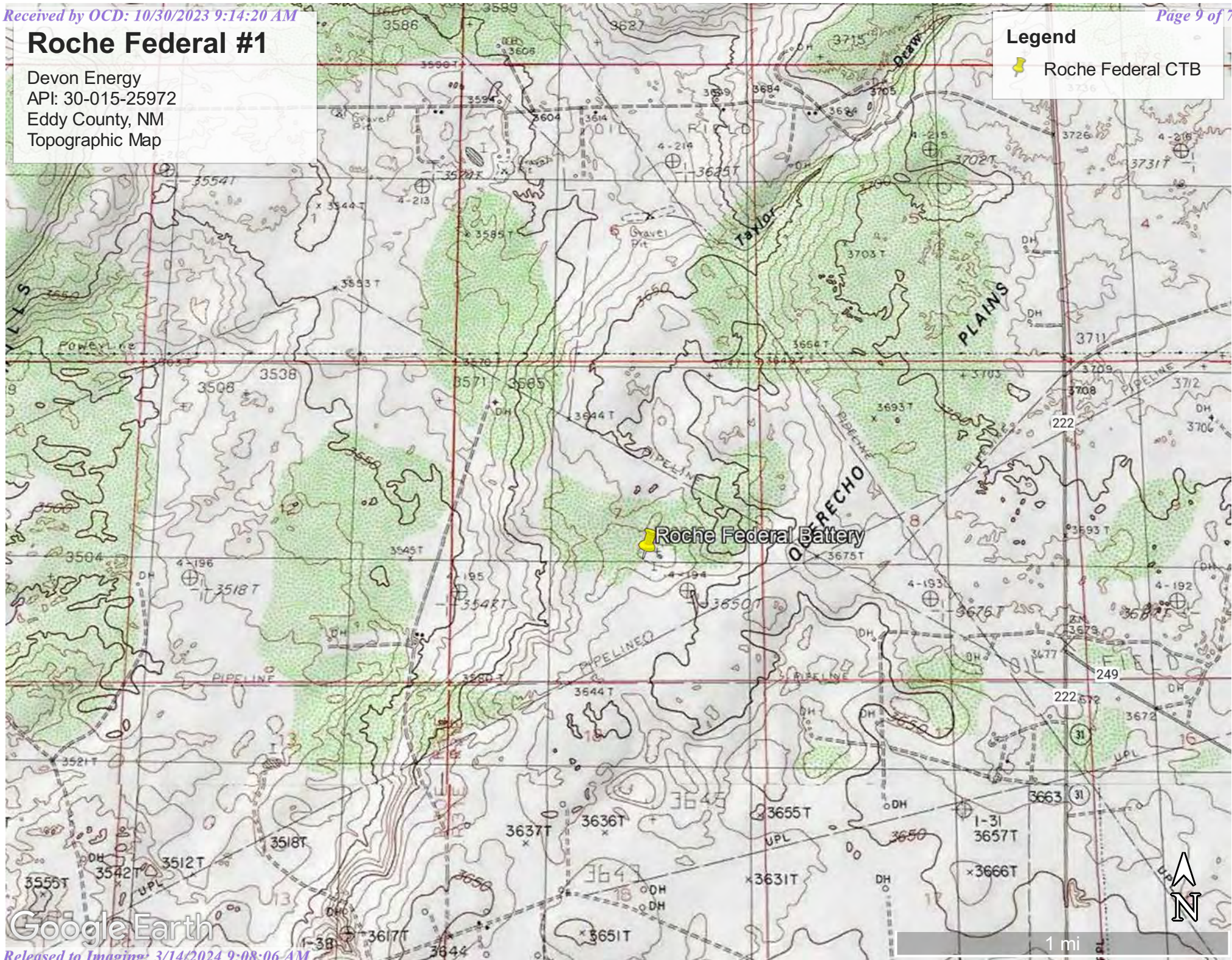
-  5.96 Miles SE of Loco Hills, NM
-  Roche Federal Battery



Google Earth

Devon Energy
API: 30-015-25972
Eddy County, NM
Topographic Map





 Roche Federal CTB



Roche Federal #1

Devon Energy
API: 30-015-25972
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Roche Federal Battery

Roche Federal Battery

Google Earth



3 mi

Roche Federal #1

Devon Energy
API:30-015-25972
Eddy County, NM
Site Map

Roche Federal #1

Legend

- Samples
- Sidewalls/Background
- Spill Area



Google Earth

100 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 11590 POD1		RA	ED	2	1	3	32	17S	31E	603315	3628545	3453	158		
RA 11590 POD4		RA	ED	4	1	1	32	17S	31E	603308	3629253	4139	55		
RA 11590 POD3		RA	ED	3	1	2	32	17S	31E	603932	3629260	4322	60		
CP 00818 POD1		CP	LE		1	4	26	18S	30E	599289	3620364*	5769	240		
CP 00767 POD1		CP	ED		3	2	35	18S	30E	599300	3619158*	6809	500		
RA 13213 POD1		RA	CH	2	2	1	24	17S	30E	600489	3632575	7613	101		
RA 13235 POD1		RA	ED	1	1	1	21	17S	31E	604631	3632537	7653	102		
CP 00853 POD1	O	CP	ED		2	4	28	18S	30E	596472	3620340*	7687	350		
RA 13288 POD1		RA	ED	2	3	4	14	17S	30E	599169	3632911	8358	101		
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757*	8539	300		
RA 13289 POD1		RA	ED	1	1	2	13	17S	30E	600611	3634171	9141	101		
RA 13212 POD1		RA	CH	1	3	4	11	17S	30E	598984	3634474	9879			
CP 00819 POD1		CP	LE		2	4	32	18S	30E	594878	3618720*	9949	150		
CP 00672		CP	LE		4	4	07	18S	32E	612475	3624947*	10058	524	430	94
CP 00672 CLW475398	O	CP	LE		4	4	07	18S	32E	612475	3624947*	10058	540	460	80
RA 11914 POD1		RA	ED	2	4	2	20	17S	30E	594801	3632002	10206	85	80	5
CP 01907 POD1		CP	ED	4	2	2	18	19S	31E	603017	3614737	10490			
RA 13324 POD1		RA	ED	4	4	1	10	17S	31E	606711	3635310	10973	55		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	11386	200	92	108
RA 13106 POD3		RA	ED	4	2	3	01	17S	30E	600381	3636421	11394			
RA 13106 POD2		RA	ED	4	2	3	01	17S	30E	600406	3636426	11395			
RA 13234 POD1		RA	LE	1	4	1	19	17S	32E	611435	3632294	11465	104		
RA 13319 POD1		RA	ED	3	3	3	02	17S	30E	598254	3635919	11490			
CP 00814 POD1		CP	LE		2	2	08	18S	32E	614074	3626168*	11693	480		
CP 00582 POD1		CP	ED				24	18S	29E	591048	3622096*	11790	150		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	11811	120		

Average Depth to Water: **265 feet**

Minimum Depth: **80 feet**

Maximum Depth: **460 feet**

Record Count: 26

UTM NAD83 Radius Search (in meters):

Easting (X): 602419.5

Northing (Y): 3625210.54

Radius: 12000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/23/23 4:18 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 324159103503801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324159103503801 18S.31E.35.31324

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83

Land-surface elevation 3,630 feet above NAVD88

The depth of the well is 300 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

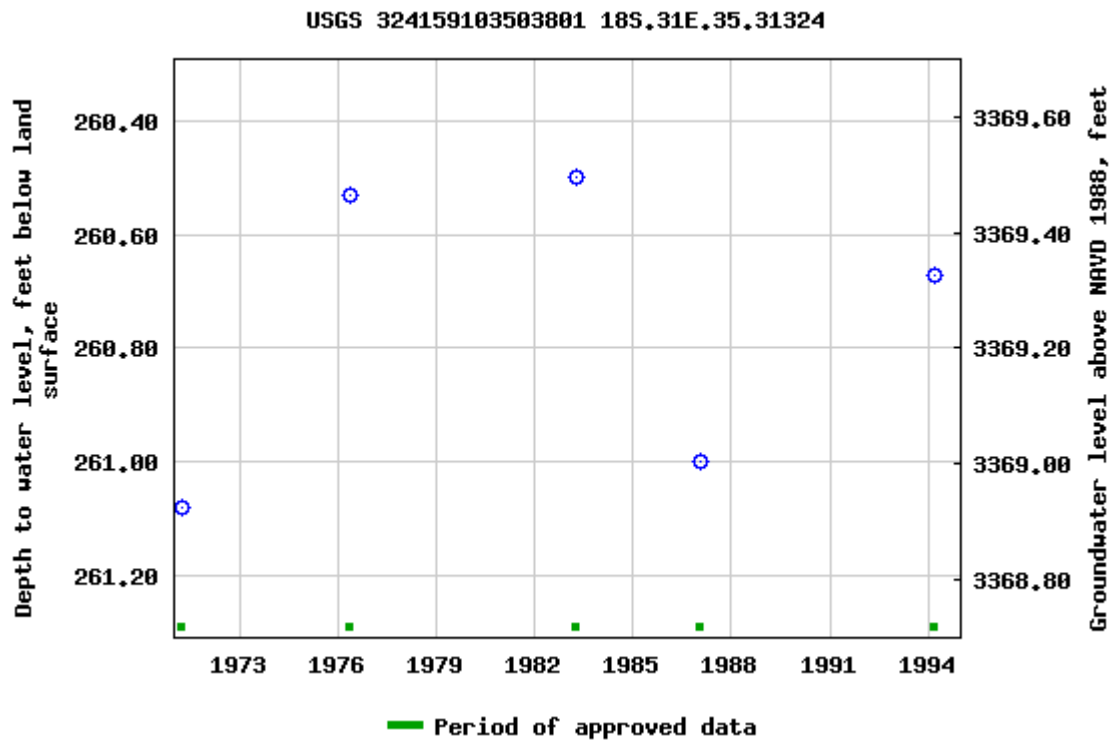
Output formats

[Table of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)



Page Last Modified: 2023-07-25 16:53:43 EDT

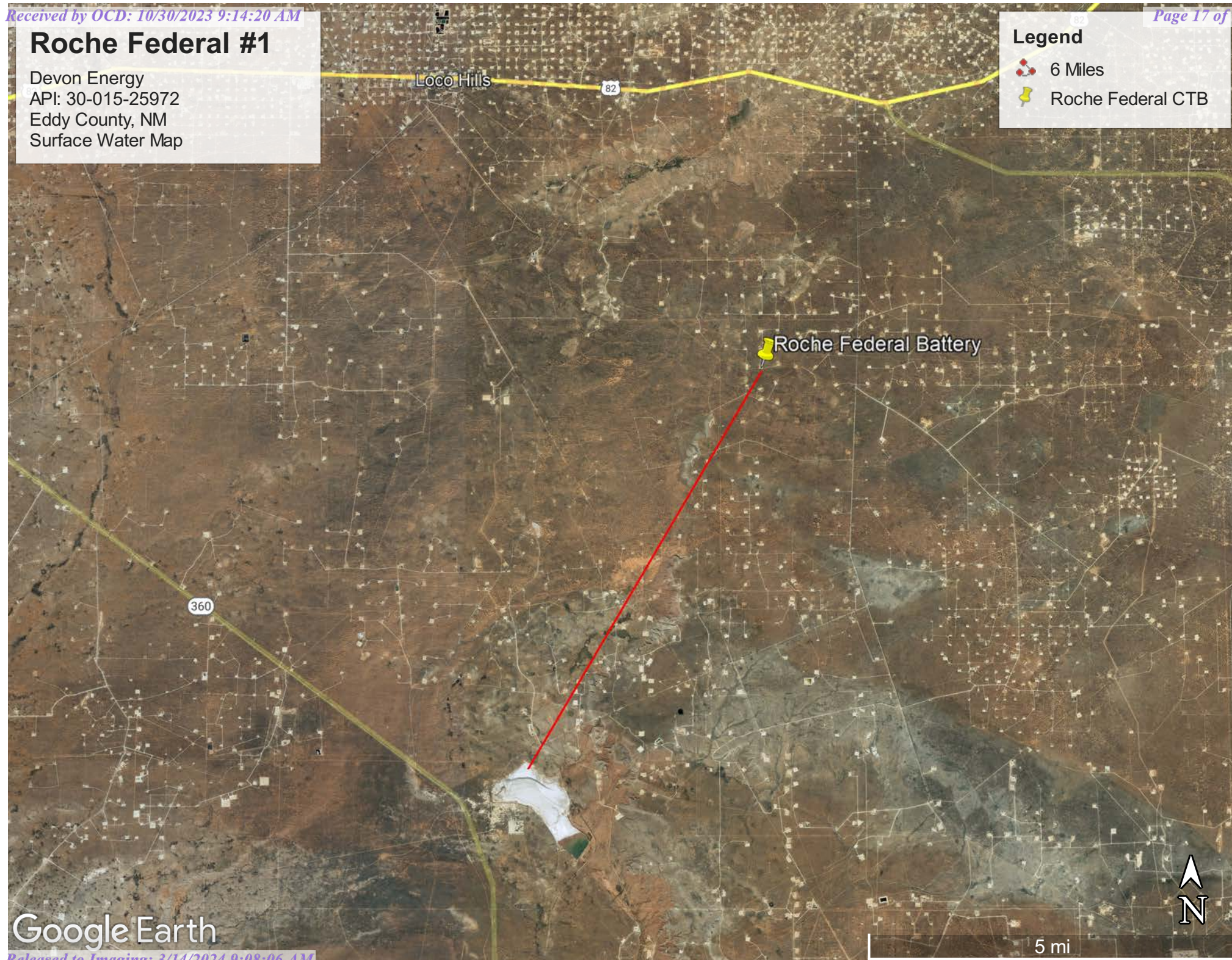
0.59 0.47 nadww01

Roche Federal #1

Devon Energy
API: 30-015-25972
Eddy County, NM
Surface Water Map

Legend

-  6 Miles
-  Roche Federal CTB



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Eddy Area, New Mexico

BP—Berino-Pajarito complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w45

Elevation: 2,450 to 4,200 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 46 percent

Pajarito and similar soils: 45 percent

Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: sandy loam

H3 - 50 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 36 inches: fine sandy loam
H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0
mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0
inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 3 percent
Hydric soil rating: No

Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°54'43"W 32°45'51"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2023 at 4:56 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



July 25, 2023

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.



Pima Environmental Services

Appendix C

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, 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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Kendra Ruiz</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>8/3/2023</u>

Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>290.644</u>	<u>0.063</u>
Cubic Feet of Soil Impacted	<u>1.514</u>
Barrels of Soil Impacted	<u>0.27</u>
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	<u>0.05</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	0.05
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>0</u>	<u>0.000</u>
Standing fluid	<u>0.000</u>
<u>Total fluids spilled</u>	<u>0.054</u>

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

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

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

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

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

CONDITIONS

Action 247206

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 247206
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/3/2023

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Oil Conservation Division

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: *Dale Woodall* Date: 10/30/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2320133653
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 10/30/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Pima Environmental Services

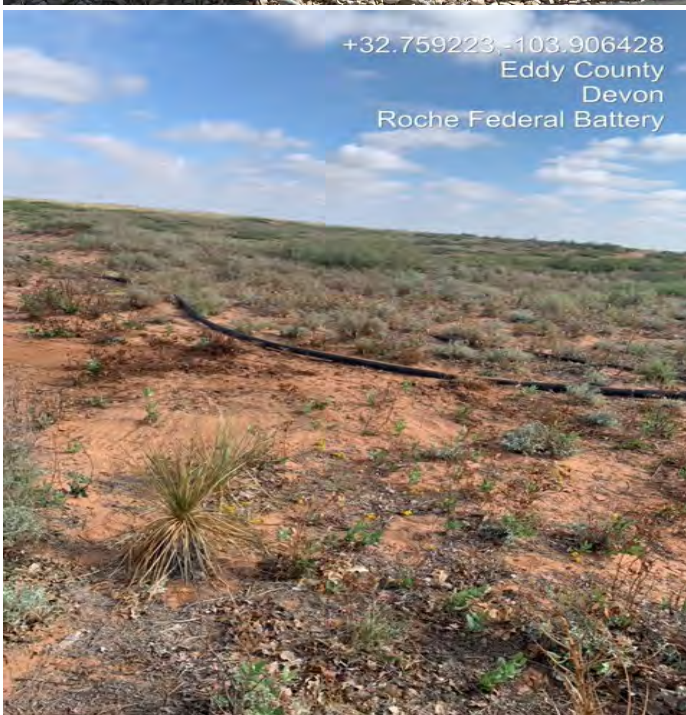
Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
ROCHE FEDERAL #1**

Site Assessment







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Roche Federal #1

Work Order: E309243

Job Number: 01058-0007

Received: 9/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/6/23

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.

Date Reported: 10/6/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Roche Federal #1
Workorder: E309243
Date Received: 9/30/2023 9:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/30/2023 9:30:00AM, under the Project Name: Roche Federal #1.

The analytical test results summarized in this report with the Project Name: Roche Federal #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S1 - 1'	6
S1 - 2'	7
S1 - 3'	8
S1 - 4'	9
S2 - 1'	10
S2 - 2'	11
S2 - 3'	12
S2 - 4'	13
S3 - 1'	14
S3 - 2'	15
S3 - 3'	16
S3 - 4'	17
S4 - 1'	18
S4 - 2'	19
S4 - 3'	20
S4 - 4'	21
SW1	22
SW2	23
SW3	24
SW4	25

Table of Contents (continued)

SW5	26
SW6	27
BG1	28
QC Summary Data	29
QC - Volatile Organic Compounds by EPA 8260B	29
QC - Volatile Organics by EPA 8021B	30
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/06/23 14:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E309243-01A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S1 - 2'	E309243-02A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S1 - 3'	E309243-03A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S1 - 4'	E309243-04A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S2 - 1'	E309243-05A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S2 - 2'	E309243-06A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S2 - 3'	E309243-07A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S2 - 4'	E309243-08A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S3 - 1'	E309243-09A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S3 - 2'	E309243-10A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S3 - 3'	E309243-11A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S3 - 4'	E309243-12A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S4 - 1'	E309243-13A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S4 - 2'	E309243-14A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S4 - 3'	E309243-15A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
S4 - 4'	E309243-16A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW1	E309243-17A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW2	E309243-18A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW3	E309243-19A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW4	E309243-20A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW5	E309243-21A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
SW6	E309243-22A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.
BG1	E309243-23A	Soil	09/27/23	09/30/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S1 - 1'

E309243-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S1 - 2'

E309243-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S1 - 3'

E309243-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	95.1 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S1 - 4'

E309243-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S2 - 1'

E309243-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.8 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	96.5 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S2 - 2'

E309243-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	95.8 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S2 - 3'

E309243-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.1 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S2 - 4'

E309243-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	97.1 %	50-200		10/03/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S3 - 1'

E309243-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.6 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S3 - 2'

E309243-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S3 - 3'

E309243-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S3 - 4'

E309243-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	96.2 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S4 - 1'

E309243-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.6 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S4 - 2'

E309243-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S4 - 3'

E309243-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

S4 - 4'

E309243-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW1

E309243-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/03/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/03/23	
Toluene	ND	0.0250	1	10/03/23	10/03/23	
o-Xylene	ND	0.0250	1	10/03/23	10/03/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/03/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		10/03/23	10/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW2

E309243-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW3

E309243-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340050	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340065	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW4

E309243-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340050
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340065
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW5

E309243-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		109 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		103 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		109 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		103 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340049
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
Surrogate: n-Nonane		89.8 %	50-200	10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340009
Chloride	ND	20.0	1	10/02/23	10/04/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

SW6

E309243-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		104 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		104 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340049
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
Surrogate: n-Nonane		91.2 %	50-200	10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340009
Chloride	ND	20.0	1	10/02/23	10/04/23	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Roche Federal #1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
10/6/2023 2:04:24PM

BG1

E309243-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		106 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		100 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		106 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		100 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340049
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/23	10/06/23	
Surrogate: n-Nonane		93.7 %	50-200	10/03/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340009
Chloride	ND	20.0	1	10/02/23	10/04/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/6/2023 2:04:24PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340022-BLK1)

Prepared: 10/02/23 Analyzed: 10/03/23

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: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2340022-BS1)

Prepared: 10/02/23 Analyzed: 10/03/23

Benzene	2.37	0.0250	2.50		94.7	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	4.99	0.0500	5.00		99.9	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike (2340022-MS1)

Source: E309236-03

Prepared: 10/02/23 Analyzed: 10/03/23

Benzene	2.29	0.0250	2.50	ND	91.5	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.4	45-135			
Toluene	2.27	0.0250	2.50	ND	90.9	48-130			
o-Xylene	2.29	0.0250	2.50	ND	91.8	43-135			
p,m-Xylene	4.55	0.0500	5.00	ND	91.0	43-135			
Total Xylenes	6.84	0.0250	7.50	ND	91.3	43-135			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2340022-MSD1)

Source: E309236-03

Prepared: 10/02/23 Analyzed: 10/03/23

Benzene	2.61	0.0250	2.50	ND	104	48-131	13.2	23	
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135	13.5	27	
Toluene	2.60	0.0250	2.50	ND	104	48-130	13.4	24	
o-Xylene	2.81	0.0250	2.50	ND	112	43-135	20.0	27	
p,m-Xylene	5.50	0.0500	5.00	ND	110	43-135	19.0	27	
Total Xylenes	8.31	0.0250	7.50	ND	111	43-135	19.3	27	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/6/2023 2:04:24PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340029-BLK1)Prepared: 10/03/23 Analyzed: 10/03/23

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	7.50		8.00		93.7	70-130			

LCS (2340029-BS1)Prepared: 10/03/23 Analyzed: 10/03/23

Benzene	4.85	0.0250	5.00		97.0	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.87	0.0250	5.00		97.5	70-130			
o-Xylene	4.81	0.0250	5.00		96.2	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.5	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			

Matrix Spike (2340029-MS1)Source: E309243-01Prepared: 10/03/23 Analyzed: 10/03/23

Benzene	4.17	0.0250	5.00	ND	83.4	54-133			
Ethylbenzene	4.03	0.0250	5.00	ND	80.5	61-133			
Toluene	4.18	0.0250	5.00	ND	83.5	61-130			
o-Xylene	4.12	0.0250	5.00	ND	82.4	63-131			
p,m-Xylene	8.35	0.0500	10.0	ND	83.5	63-131			
Total Xylenes	12.5	0.0250	15.0	ND	83.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2340029-MSD1)Source: E309243-01Prepared: 10/03/23 Analyzed: 10/03/23

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	14.5	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.4	61-133	14.8	20	
Toluene	4.84	0.0250	5.00	ND	96.7	61-130	14.6	20	
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131	15.1	20	
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	63-131	14.6	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131	14.8	20	
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/6/2023 2:04:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340022-BLK1)

Prepared: 10/02/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2340022-BS2)

Prepared: 10/02/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike (2340022-MS2)

Source: E309236-03

Prepared: 10/02/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2340022-MSD2)

Source: E309236-03

Prepared: 10/02/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130	4.81	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported: 10/6/2023 2:04:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340029-BLK1) Prepared: 10/03/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		8.00		86.0	70-130			

LCS (2340029-BS2) Prepared: 10/03/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

Matrix Spike (2340029-MS2) Source: E309243-01 Prepared: 10/03/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2340029-MSD2) Source: E309243-01 Prepared: 10/03/23 Analyzed: 10/03/23

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	6.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		87.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported: 10/6/2023 2:04:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340049-BLK1)					Prepared: 10/03/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2340049-BS1)					Prepared: 10/03/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2340049-MS1)					Source: E309242-14		Prepared: 10/03/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.6	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike Dup (2340049-MSD1)					Source: E309242-14		Prepared: 10/03/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	9.39	20	
Surrogate: n-Nonane	57.3		50.0		115	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported: 10/6/2023 2:04:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340050-BLK1)					Prepared: 10/03/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2340050-BS1)					Prepared: 10/03/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	245	25.0	250		98.0	38-132			
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			

Matrix Spike (2340050-MS1)					Source: E309243-04		Prepared: 10/03/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.1	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike Dup (2340050-MSD1)					Source: E309243-04		Prepared: 10/03/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.2	38-132	1.23	20	
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported: 10/6/2023 2:04:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340009-BLK1)					Prepared: 10/02/23 Analyzed: 10/04/23				
Chloride	ND	20.0							
LCS (2340009-BS1)					Prepared: 10/02/23 Analyzed: 10/04/23				
Chloride	264	20.0	250		105	90-110			
Matrix Spike (2340009-MS1)					Source: E309243-21		Prepared: 10/02/23 Analyzed: 10/04/23		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2340009-MSD1)					Source: E309243-21		Prepared: 10/02/23 Analyzed: 10/04/23		
Chloride	267	20.0	250	ND	107	80-120	0.746	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/6/2023 2:04:24PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2340065-BLK1)					Prepared: 10/04/23 Analyzed: 10/06/23				
Chloride	ND	20.0							
LCS (2340065-BS1)					Prepared: 10/04/23 Analyzed: 10/06/23				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2340065-MS1)					Source: E309243-01		Prepared: 10/04/23 Analyzed: 10/06/23		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2340065-MSD1)					Source: E309243-01		Prepared: 10/04/23 Analyzed: 10/06/23		
Chloride	252	20.0	250	ND	101	80-120	0.0469	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

Pima Environmental Services-Carlsbad	Project Name:	Roche Federal #1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/06/23 14:04

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Loche Federal #1</u>					Attention: <u>Devon</u>		Lab WO# <u>E309243</u>		Job Number <u>01058-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method									
Address: 5614 N. Lovington Hwy.					City, State, Zip		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip: Hobbs, NM, 88240					Phone:		Chloride 300.0									
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>70-2</u>											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks										
10:50	9/27	S	1	S1-1'	1											
10:52				S1-2'	2											
10:59				S1-3'	3											
11:02				S1-4'	4											
11:10				S2-1'	5											
11:16				S2-2'	6											
11:21				S2-3'	7											
11:27				S2-4'	8											
11:31				S3-1'	9											
11:33				S3-2'	10											
Additional Instructions: <u>Billing # 211 99011</u>																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
<u>Varine Adams</u>		9/29/23	1:00	<u>Michelle Gungor</u>		9-29-23	1300	Received on ice: <u>Y</u> N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____								
<u>Michelle Gungor</u>		9-29-23	1745	<u>Alex</u>		9-29-23	2330									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>								
<u>[Signature]</u>		9-29-23	2330	<u>[Signature]</u>		9-30-23	930									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																


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Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program								
Project: <u>Roche Federal #1</u>					Attention: <u>Devon</u>		Lab WO# <u>E309243</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Tom Bynum					Address:		Analysis and Method														
Address: 5614 N. Lovington Hwy.					City, State, Zip												RCRA				
City, State, Zip: Hobbs, NM, 88240					Phone:																
Phone: 580-748-1613					Email:												State				
Email: tom@pimaoil.com					Pima Project # <u>70-2</u>												NM	CO	UT	AZ	TX
Report due by:																	Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BDOC NM	BDOC TX						
11:35	9/27	S	1	S3-3'	11									X							
11:38				S3-4'	12																
11:41				S4-1'	13																
11:46				S4-2'	14																
11:52				S4-3'	15																
11:58				S4-4'	16																
12:00				SW1	17																
12:06				SW2	18																
12:09				SW3	19																
12:13				SW4	20																
Additional Instructions: <u>Billing #2 1199011</u>																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
<u>Kerrine Adams</u>		9/29/23	1:00	<u>Christalle Cruz</u>		9-29-23	1300	Received on ice: <u>Y</u> / N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____													
<u>Christalle Cruz</u>		9-29-23	1745	<u>[Signature]</u>		9-29-23	2330														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
<u>[Signature]</u>		9-29-23	2330	<u>[Signature]</u>		9-30-23	930														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					


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Chain of Custody

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Loche Federal #1</u>					Attention: <u>Devon</u>					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: <u>Tom Bynum</u>					Address:					<u>E309243</u>		<u>01058-0007</u>						<u>X</u>						
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip					Analysis and Method												RCRA		
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State						
Phone: <u>580-748-1613</u>					Email:													NM	CO	UT	AZ	TX		
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>70-2</u>													<u>X</u>						
Report due by:																				Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
<u>12:21</u>	<u>9/27</u>	<u>S</u>	<u>1</u>	<u>SWS</u>	<u>21</u>										<u>X</u>									
<u>12:27</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>SWG</u>	<u>22</u>										<u>1</u>									
<u>12:31</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>BGI</u>	<u>23</u>																			
<div>Additional Instructions: <u>Billing # 2099611</u></div>																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature) <u>Karine Adams</u>					Date <u>9/29/23</u>		Time <u>1:00</u>		Received by: (Signature) <u>Michelle Campbell</u>					Date <u>9-29-23</u>		Time <u>1:00</u>		Lab Use Only						
Relinquished by: (Signature) <u>Michelle Campbell</u>					Date <u>9-29-23</u>		Time <u>1:45</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>9-29-23</u>		Time <u>2:30</u>		Received on ice: <u>(Y) / N</u>						
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>9-29-23</u>		Time <u>2:30</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>9-30-23</u>		Time <u>9:30</u>		T1 _____ T2 _____ T3 _____						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

Envirotech Analytical Laboratory

Printed: 10/2/2023 11:00:02AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/30/23 09:30	Work Order ID:	E309243
Phone:	(575) 631-6977	Date Logged In:	09/29/23 19:29	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 280749

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 280749
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2320133653 ROCHE FED CTB, thank you. This Remediation Closure Report is approved. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	3/14/2024
rhamlet	• Pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. A revegetation report will not be accepted until the release area, including areas reasonably needed for production or drilling activities, are complete. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil.	3/14/2024
rhamlet	• Information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/14/2024