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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
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?	282 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
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: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

email: Dale.Woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

Incident ID	nOY1727241068
District RP	1RP-4829
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nOY1727241068
District RP	1RP-4829
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: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

email: Dale.Woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

December 15, 2022

#5E31003-BG27

NMOCD District 1
1625 North French Drive
Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Rio Blanco 33 Federal 2 (nOY1727241068), Lea County, New Mexico

1.0 Introduction

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the release assessment results and closure request for a produced water release related to oil and gas production activities at the Rio Blanco 33 Federal 2 (nOY1727241068). The release site is located in Unit F, Section 33, Township 22S, Range 34E, Lea County, New Mexico, on State Trust Land administered by the New Mexico State Land Office (NMSLO). Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

Table 1: Release Information and Closure Criteria			
Name	Rio Blanco 33 Federal 2	Company	Devon Energy Production Company
API Number	30-025-36360	Location	32.3499985, -103.4771576
Incident Number	nOY1727241068	Land Status	State Trust Land
Date of Release	September 13, 2017		
Source of Release	Discharging pipe		
Released Volume	10 barrels (bbls) Produced Water	Recovered Volume	6 bbls Produced Water
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	November 28, 2022; December 6, 7, 2022		

2.0 Background

On September 13, 2017, a produced water release was discovered at the Rio Blanco 33 Federal 2 site. Initial response activities were conducted by Devon, and included source elimination and site security, containment, and site stabilization activities. The release remained entirely on the pad of the well site and 6 of the 10 bbls of produced water were recovered. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. A copy of the initial C-141 is included in Appendix A.

3.0 Site Information and Closure Criteria

The Rio Blanco 33 Federal 2 site is located approximately 44 miles east-southeast of Carlsbad, New Mexico on State Trust land at an elevation of approximately 3,411 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System reported two wells, CP-1705 and CP-1706, within ½-mile of the site, with reported depths to groundwater of 305 feet and 282 feet, respectively. (Appendix B).

Wellhead Protection Area

There are six known water wells within ½-mile of the location, according to the OSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown on Figure 1.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed ephemeral wash, located approximately one mile to the northeast.

Closure Criteria

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 New Mexico Administrative Code (NMAC).

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet below grade surface (bgs).

4.0 Release Characterization

SMA personnel performed a release assessment which included the advancement of fourteen soil borings (BH01 through BH14) using a hand auger. Soil samples were collected from the surface and every foot thereafter to auger refusal on rock at total boring depths ranging from 3.5 to 5 feet bgs. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. Soil boring locations are illustrated on Figure 3. Copies of field notes and a photolog are included in Appendix C.

Samples selected for laboratory analysis were collected and submitted to the laboratory in accordance with the sampling protocol included in Appendix D. The samples were analyzed for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D.

Laboratory analytical results indicate that benzene and total BTEX concentrations are below laboratory reporting limits of 0.0250 milligrams per kilogram (mg/kg) and 0.100 mg/kg, respectively. These laboratory reporting limits are below the Closure Criteria of 10 mg/kg benzene and 50 mg/kg total BTEX. Laboratory analytical results also indicate that TPH (GRO+DRO) concentrations range from below laboratory reporting limits of 45.0 mg/kg to 68.8 mg/kg in BH03, which are below the Closure Criteria of 1,000 mg/kg. Total TPH concentrations are reported ranging from below laboratory reporting limits to 277 mg/kg in BH03, which are below the Closure Criteria of 2,500 mg/kg. Finally, chloride concentrations are reported ranging from below laboratory reporting limits to 4,550 mg/kg in BH01, which are below the Closure Criteria of 20,000 mg/kg. Laboratory analytical reports are included in Appendix E.

5.0 Recommendations

As demonstrated in Table 3, all release assessment samples meet NMOCD Closure Criteria of Table I of 19.15.29.12 NMAC for a release where depth to groundwater is greater than 100 feet bgs. The release area is located entirely on the well pad.

SMA recommends no further action and requests closure of Incident Number nOY1727241068/1RP-4829.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Heather Woods at (505) 716-2787.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Georgeann Goodman
Field Technician ll

Reviewed by:

Heather M. Woods, P.G.
Project Geoscientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 12/12/2022

USGS National Water Information System: Web Interface online water well database
https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html; accessed 12/12/2022

ATTACHMENTS:

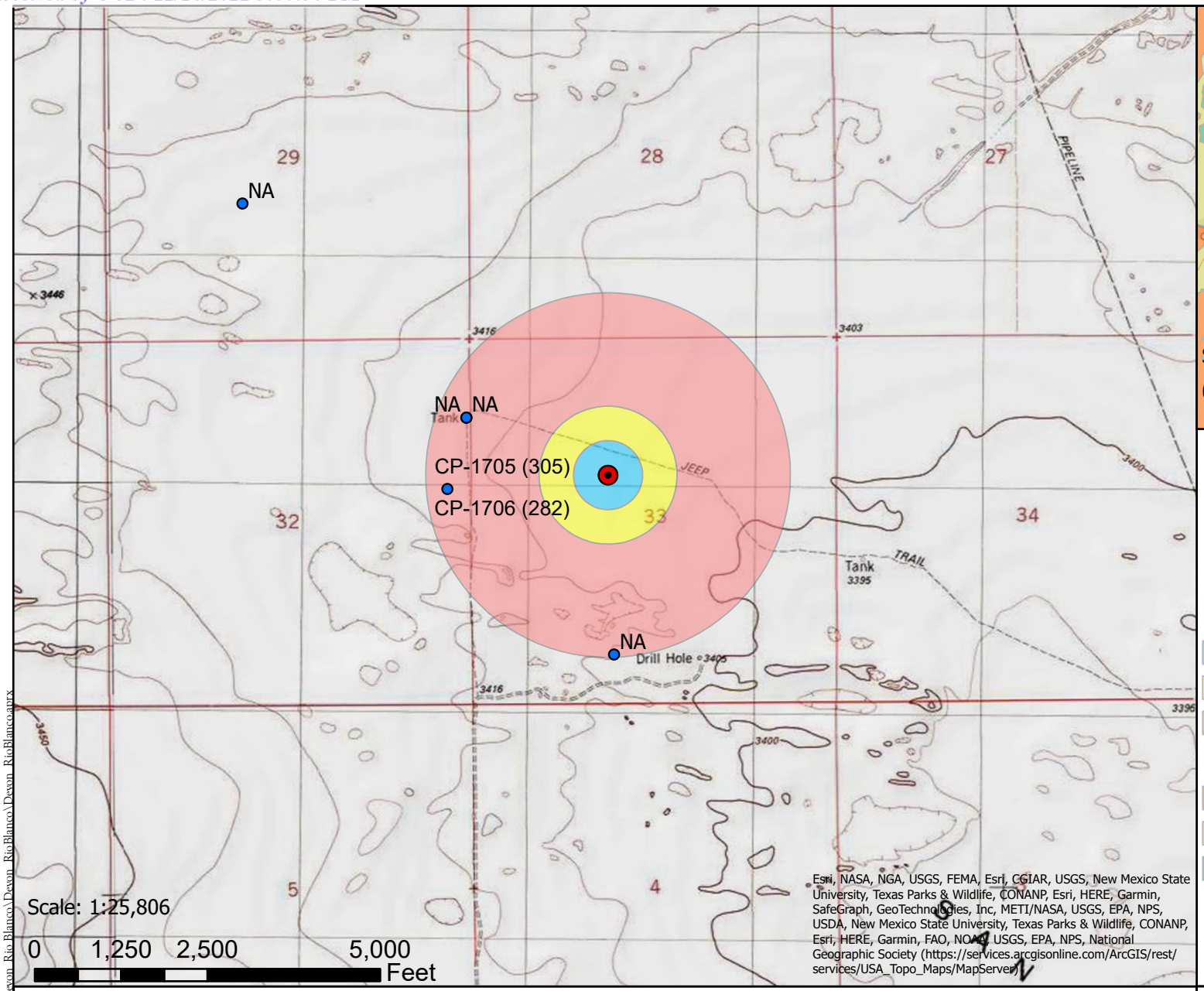
Figures:

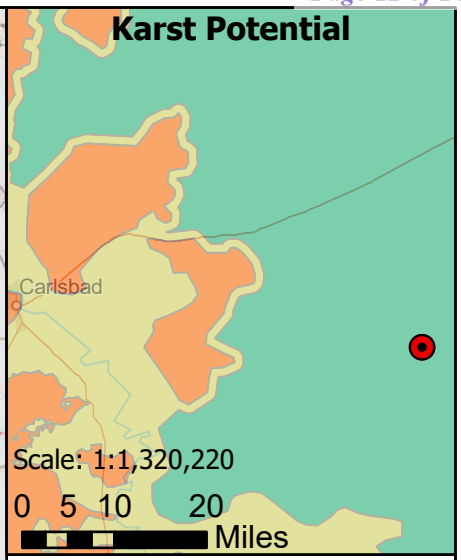
Figure 1: Topographic Site Map
Figure 2: Aerial Site Map
Figure 3: Site and Sample Location Map

Tables:

Appendices:

FIGURES





Legend

- Point of Release
- USGS GW Wells (depth in ft)
- OSE GW Wells (depth in ft)

Buffer Distance

- 500 ft
- 1000 ft
- 0.5 mile

Karst Potential

- High
- Medium
- Low

N

Point of Release Coordinates:
-103.4771576W 32.3499985N

Topographic Site Map
Rio Blanco 33 Fed 2 - Devon Energy Production Co.
UL: F, S: 33 T: 22S R: 34E, Lea County, New Mexico

Figure 1

C:\Users\ss\Desktop\GIS\Devon\Devon_Rio Blanco\Devon_RioBlanco\Devon_RioBlanco.aprx
Date Saved: 12/12/2022

Revisions
By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

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Drawn Sarahmay Schlea
Date 12/12/2022
Checked
Approved

SMA
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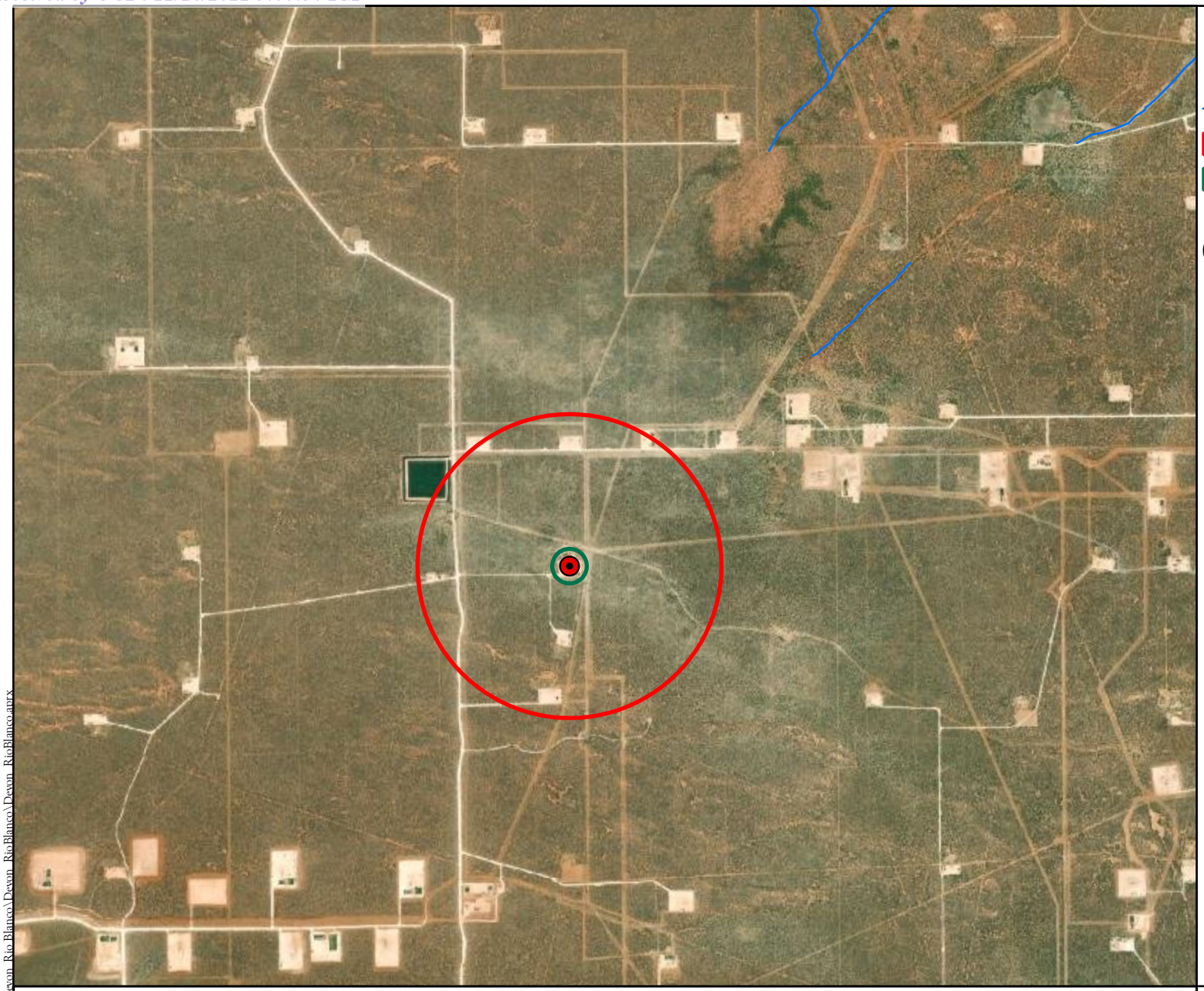

Legend

- Point of Release
- Streams/Canals/Flowlines
- 0.5 Mile Radius
- 300 Foot Radius

0 1,250 2,500 5,000

Feet

Scale: 1:30,967

N

Point of Release Coordinates:
-103.4771576W 32.3499985N

Aerial Site Map

Rio Blanco 33 Fed 2 - Devon Energy Production Co.

UL: F, S: 33 T: 22S R: 34E, Lea County, New Mexico

Figure 2

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Date Saved: 12/12/2022

Revisions

By:_____ Date:_____ Descr:_____

By:_____ Date:_____ Descr:_____

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Drawn Sarahmay Schlea

Date 12/12/2022

Checked

Approved

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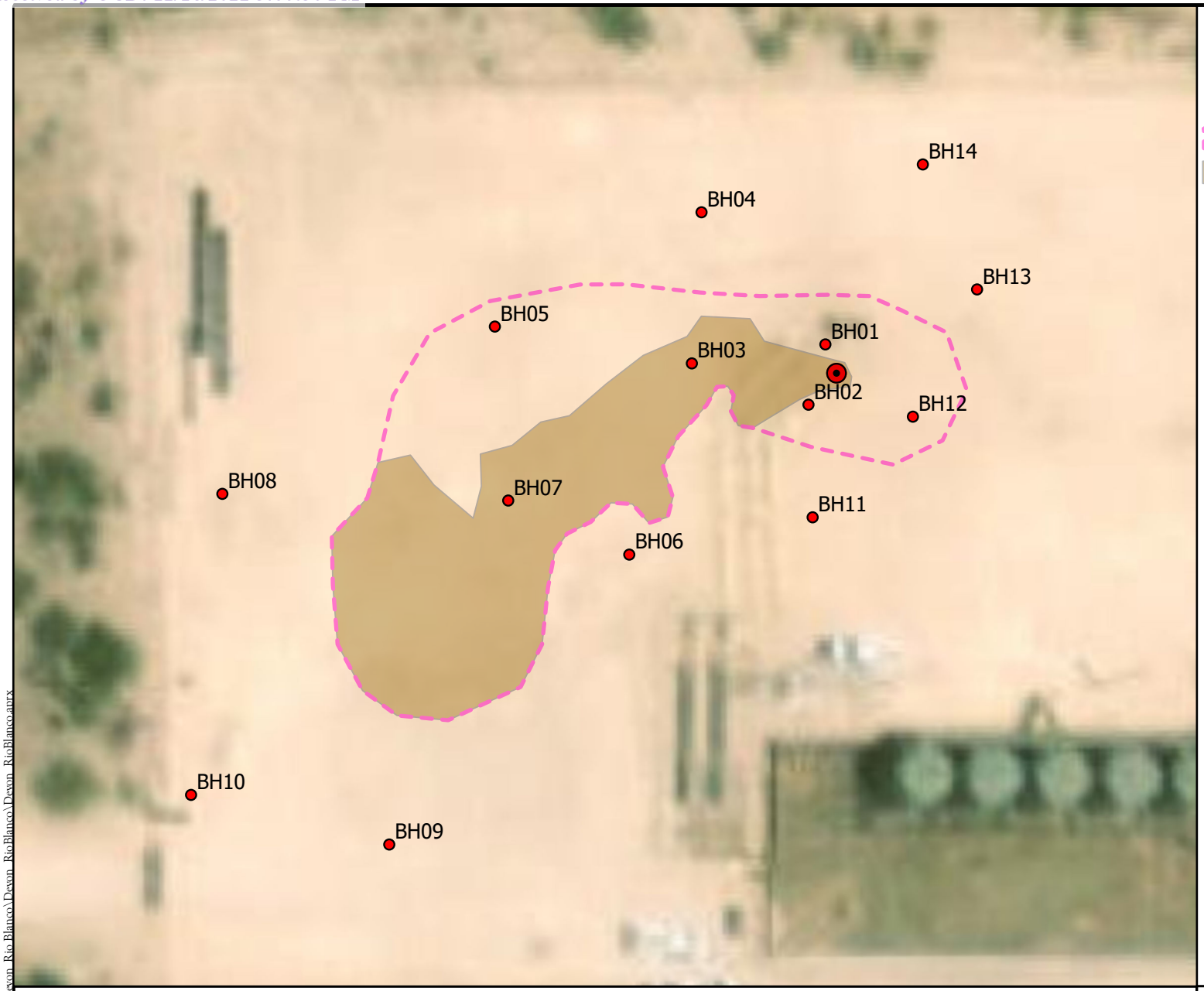

Legend

- Point of Release
- Borehole Samples
- Estimated Release Extents
- Estimated Surface Release Area

0 20 40 80

Feet

Scale: 1:507

N

Point of Release Coordinates:
-103.4771576W 32.3499985N

Site and Sample Location Map
Rio Blanco 33 Fed 2 - Devon Energy Production Co.
UL: F, S: 33 T: 22S R: 34E, Lea County, New Mexico

Figure 3

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Date Saved: 12/12/2022

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By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

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Drawn Sarahmay Schlea
Date 12/15/2022
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Approved

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Carlsbad, New Mexico 88221
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TABLES

Table 2:
NMOCD Closure Criteria

Devon Energy Production Company
Rio Blanco 33 Fed 2

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	282	United States Geological Survey
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	2,275	New Mexico Office of the State Engineer
Hortizontal Distance to Nearest Significant Watercourse (ft)	5,280	United States Geological Survey Topo Map

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

Table 3:
Summary of Field Screening and
Laboratory Analytical Results

Devon Energy Production Company
Rio Blanco 33 Fed 2

Sample ID	Sample Date	Depth of Sample (feet bgs)	Field Screening		Method 8021B		Method 8015D					Method 300.0
			VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	Chloride
			ppm	mS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria					50	10	--	--	1,000	--	2,500	20,000
BH01	11/28/2022	0	--	2.85	<0.100	<0.0250	<20.0	**55.5**	**55.5**	**75.1**	**130.6**	**3,700**
		1	--	4.02	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**4,550**
		2	--	1.00	--	--	--	--	--	--	--	--
		3	--	0.77	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**731**
		4	--	0.66	--	--	--	--	--	--	--	--
		5	--	0.68	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**315**
BH02	11/28/2022	0	--	0.12	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**87.2**
		1	--	2.94	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**3,750**
		2	--	0.94	--	--	--	--	--	--	--	--
		3	--	1.05	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**1,520**
		4	--	0.56	--	--	--	--	--	--	--	--
		5	--	0.63	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**1,020**
BH03	11/28/2022	0	--	0.13	<0.100	<0.0250	<20.0	**68.8**	**68.8**	**208**	**277**	<20.0
		1	--	0.18	--	--	--	--	--	--	--	--
		2	--	0.37	--	--	--	--	--	--	--	--
		3	--	0.86	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**795**
		4	--	0.69	--	--	--	--	--	--	--	--
		5	--	0.26	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**277**
BH04	11/28/2022	0	--	0.05	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.28	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**191**
		2	--	0.21	--	--	--	--	--	--	--	--
		3	--	0.18	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**115**
		4	--	0.22	--	--	--	--	--	--	--	--
		5	--	0.11	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**22.6**
BH05	11/28/2022	0	--	0.12	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.93	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**628**
		2	--	0.14	--	--	--	--	--	--	--	--
		3	--	0.24	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**168**
		4	--	0.21	--	--	--	--	--	--	--	--
		5	--	0.10	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**36.6**
BH06	11/28/2022	0	--	0.08	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.64	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**542**
		2	--	0.18	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**63.4**
		3	--	0.17	--	--	--	--	--	--	--	--
		3.5	--	0.13	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**50.7**

Table 3:
Summary of Field Screening and
Laboratory Analytical Results

Devon Energy Production Company
Rio Blanco 33 Fed 2

Sample ID	Sample Date	Depth of Sample (feet bgs)	Field Screening		Method 8021B		Method 8015D					Method 300.0
			VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	Chloride
			ppm	mS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria					**50**	**10**	**--**	**--**	**1,000**	**--**	**2,500**	**20,000**
BH07	11/28/2022	0	--	0.04	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.10	--	--	--	--	--	--	--	--
		2	--	0.13	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		3	--	0.15	--	--	--	--	--	--	--	--
		4	--	0.21	--	--	--	--	--	--	--	--
		5	--	0.10	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**51.3**
BH08	11/28/2022	0	--	0.05	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.12	--	--	--	--	--	--	--	--
		2	--	0.20	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**106**
		3	--	0.45	--	--	--	--	--	--	--	--
		4	--	0.48	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**472**
		5	--	0.36	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**434**
BH09	11/28/2022	0	--	0.04	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.17	--	--	--	--	--	--	--	--
		2	--	0.18	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**39.4**
		3	--	0.15	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		4	--	0.10	--	--	--	--	--	--	--	--
		5	--	0.09	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
BH10	11/28/2022	0	--	0.06	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.08	--	--	--	--	--	--	--	--
		2	--	0.10	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**25.4**
		3	--	0.16	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**64.5**
		4	--	0.10	--	--	--	--	--	--	--	--
		4.5	--	0.13	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**25.5**
BH11	12/6/2022	0	--	0.12	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.43	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**203**
		2	--	0.16	--	--	--	--	--	--	--	--
		3	--	0.17	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**37.6**
		4	--	0.08	--	--	--	--	--	--	--	--
		4.5	--	0.18	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**42.1**

Table 3:
Summary of Field Screening and
Laboratory Analytical Results

Devon Energy Production Company
Rio Blanco 33 Fed 2

Sample ID	Sample Date	Depth of Sample (feet bgs)	Field Screening		Method 8021B		Method 8015D					Method 300.0
			VOCs by PID	EC	BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	Chloride
			ppm	mS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Closure Criteria					**50**	**10**	**--**	**--**	**1,000**	**--**	**2,500**	**20,000**
BH12	12/7/2022	0	--	0.38	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**361**
		1	--	1.40	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**1,510**
		2	--	0.43	--	--	--	--	--	--	--	--
		3	--	0.51	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**432**
		4	--	0.39	--	--	--	--	--	--	--	--
		5	--	0.28	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**226**
BH13	12/7/2022	0	--	0.09	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**26.0**
		1	--	0.25	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**152**
		2	--	0.26	--	--	--	--	--	--	--	--
		3	--	0.34	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**226**
		4	--	0.30	--	--	--	--	--	--	--	--
		5	--	0.40	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**523**
BH14	12/7/2022	0	--	0.06	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	<20.0
		1	--	0.33	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**171**
		2	--	0.45	--	--	--	--	--	--	--	--
		3	--	0.31	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**171**
		4	--	0.33	--	--	--	--	--	--	--	--
		4.5	--	0.54	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	**588**

Notes:

NMOCD - New Mexico Oil Conservation Division
VOCs - volitile organic compounds
PID - photoionization detector
ppm - parts per million
EC - electrical conductivity
mS - microsiemens
BTEX - benzene, ethylbenzene, toluene, and xylenes
mg/kg - milligrams per kilogram
GRO - gasoline range organics
DRO - diesel range organics
MRO - motor oil range organics
TPH - total petroleum hydrocarbons
--" - not analyzed

APPENDIX A

FORM C141

4441District 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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	**Contact** Aaron Kidd, Technical Services Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	**Telephone No.** 575-748-9936
Facility Name Rio Blanco 33 Federal 2	**Facility Type** Salt Water Disposal

Surface Owner State	**Mineral Owner** Federal	**API No 30-025-36360**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	33	22S	34E	1980	North	1980	West	Lea

Latitude: 32.3499985 **Longitude:**-103.4771576

NATURE OF RELEASE

Type of Release Produced Water	**Volume of Release** 10BBLS PW	**Volume Recovered** 6BBLS PW
Source of Release Discharge Piping	**Date and Hour of Occurrence** 09/13/2017 @11:30 AM	**Date and Hour of Discovery** 09/13/2017 @11:30 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** OCD-Olivia Yu BLM-Shelly Tucker	
By Whom? Aaron Kidd, Technical Services Foreman	**Date and Hour** BLM-9/13/2017 @ 4:02 PM OCD-9/13/2017 @ 4:05 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse**	

RECEIVED
By Olivia Yu at 11:20 am, Sep 29, 2017

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

Describe Cause of Problem and Remedial Action Taken.*
The underground discharge piping developed a leak. The facility was shut down and the line was isolated to stop the release. All fluid was PW and stayed on location. A vacuum truck was dispatched to recover any standing fluids.

Describe Area Affected and Cleanup Action Taken.*
Approximately 10BBLS of Produced Water was released as a result of the leaking piping. Approximately 6BBLS of Produced Water was recovered via the dispatched vacuum truck. All fluid stayed on the location. An environmental contractor will be contacted to assist with the delineation and remediation of the well pad surface.

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

Signature: *Michael R. Shoemaker*	OIL CONSERVATION DIVISION
Printed Name: Michael R. Shoemaker	Approved by Environmental Specialist:
Title: Environmental Professional	Approval Date: 9/29/2017 Expiration Date:
E-mail Address: mike.shoemaker@dvn.com	Conditions of Approval: see attached directive Attached ☑
Date: 09/27/2017 Phone: 575-748-3371	

* Attach Additional Sheets If Necessary

1RP-4829 nOY1727241068 pOY1727241260

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _9/27/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4829__ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/29/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Rio Blanco 33 Fed 2 SWD

10 BBLS PW_9.13.17

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Michael Shoemaker
Map is current as of: 27-Sep-2017

N

Miles
0 0.00 0.01 0.02 1: 889

APPENDIX B

WATER WELL DATA

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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 01705 POD1	CP	LE	4	4	2	32	22S	34E	642588	3580179	700	305	395
CP 01706 POD1	CP	LE	4	4	2	32	22S	34E	642603	3580185	340	282	58
CP 01740 POD1	CP	LE	1	1	1	34	22S	34E	644402	3580765	600	560	40
CP 01803 POD1	CP	LE	1	1	1	34	22S	34E	644357	3580786	240	180	60
CP 01826 POD1	CP	LE	1	1	1	34	22S	34E	644379	3580778	698	180	518
CP 01829 POD1	CP	LE	4	4	2	32	22S	34E	642559	3580172	1410	1150	260

Average Depth to Water: **442 feet**

Minimum Depth: **180 feet**

Maximum Depth: **1150 feet**

Record Count: 6

PLSS Search:

Section(s): 29, 28, 27, 32, 33, 34 **Township:** 22S **Range:** 34E

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.

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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 01502 POD1	CP	LE	4	3	3	05	23S	34E	641316	3577635	648	200	448
CP 01502 POD2	CP	LE	4	3	3	05	23S	34E	642074	3577676	680	300	380
CP 01622 POD1	CP	LE	1	3	3	04	23S	34E	642830	3577872	575	285	290

Average Depth to Water: **261 feet**

Minimum Depth: **200 feet**

Maximum Depth: **300 feet**

Record Count: 3

PLSS Search:

Section(s): 5, 4, 3 **Township:** 23S **Range:** 34E

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.

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
20D10	CP 01705 POD1	4	4	2	32	22S	34E	642588	3580179

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, CASEY

Drill Start Date: 04/02/2018 **Drill Finish Date:** 05/01/2018 **Plug Date:**

Log File Date: 05/23/2018 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 350 GPM

Casing Size: 8.00 **Depth Well:** 700 feet **Depth Water:** 305 feet

Water Bearing Stratifications:

Top	Bottom	Description
270	317	Sandstone/Gravel/Conglomerate
317	375	Sandstone/Gravel/Conglomerate
375	420	Sandstone/Gravel/Conglomerate
420	565	Sandstone/Gravel/Conglomerate
565	590	Sandstone/Gravel/Conglomerate
590	700	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
300	700

Meter Number: 18949 **Meter Make:** SEAMETRICS

Meter Serial Number: 042018001248 **Meter Multiplier:** 1.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
08/06/2019	2019	0	A	RPT	New Meter	0	
09/01/2019	2019	317662	A	RPT		40.945	
11/04/2019	2019	773965	A	RPT		58.814	
12/03/2019	2019	773965	A	RPT		0	
02/01/2020	2020	981451	A	RPT		26.744	
03/02/2020	2020	1349349	A	RPT		47.420	
04/01/2020	2020	1546290	A	RPT		25.384	
05/04/2020	2020	1546290	A	RPT		0	
06/04/2020	2020	1546290	A	RPT		0	
07/02/2020	2020	1546290	A	RPT		0	
08/03/2020	2020	1546290	A	RPT		0	
10/09/2020	2020	1546290	A	RPT		0	
11/06/2020	2020	1546290	A	RPT		0	
12/14/2020	2020	1546290	A	RPT		0	
01/07/2021	2020	1546290	A	RPT		0	
02/05/2021	2021	1546290	A	RPT		0	
08/02/2021	2021	1546290	A	ad		0	
09/01/2021	2021	1546290	A	ad		0	
10/05/2021	2021	1546290	A	ad		0	
11/04/2021	2021	1546290	A	ad		0	
12/13/2021	2021	1546290	A	ad		0	
01/01/2022	2022	1546290	A	ad		0	
02/01/2022	2022	1546290	A	ad		0	
03/01/2022	2022	1546290	A	ad		0	
04/01/2022	2022	1546290	A	ad		0	
05/06/2022	2022	1546290	A	ad		0	
09/05/2022	2022	1546290	A	ad		0	
10/10/2022	2022	1546290	A	ad		0	

**YTD Meter Amounts:	Year	Amount
	2019	99.759
	2020	99.548
	2021	0
	2022	0

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.

Released to Imaging: 1/12/2023 11:36:15 AM

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2020 JAN 13 PM 4:07

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
CP-1706		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
LIMESTONE BASIN PROPERTIES RANCH LLC	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
3300 N A STREET, BLDG 1, STE 220	MIDLAND	TX	79705

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	20	58.20	N
	LONGITUDE	103	29	4.40	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SESENE SEC 32 T22S R34E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1706	BRYCE WALLACE	ELITE DRILLERS CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
01/06/20	01/07/20	340	340	282

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 282

DRILLING FLUID: ☐ AIR ☑ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	280	6.75	SDR17 PVC	SPLINE	4.3	SDR17	
280	340	6.75	SDR17 PVC	SPLINE	4.3	SDR17	.032

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
25	340	6.75	8/16 SILICA SAND	54	POUR

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	CP-1706	POD NO.	1	TRN NO.	663964
LOCATION	4 24 T22S R34E Sec 32			WELL TAG ID NO.	NA

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
240	295	55	REDISH SANDY CLAY	✓ Y N	5.00
295	340	45	TAN SAND	✓ Y N	50.00
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO 2020 JAN 13 PM 4 04

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 55.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

BRYCE WALLACE — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/08/2020 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	CP-1706	POD NO.	1	TRN NO.	663964	
LOCATION	424 T22S R34E Sec 32			WELL TAG ID NO.	NA	PAGE 2 OF 2

APPENDIX C

FIELD NOTES AND PHOTOLOG

SMA FIELD SCREENING

LOCATION NAME: Devon Rio Blanco 33 Fed 2 SAMPLING DATE: November 28, 2022

SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
BH01@0	1020		2.85	19.8		
BH01@1	1021		4.02	19.9		
BH01@2	1022		1.0	19.9		
BH01@3	1024		0.77	20.2		
BH01@4	1025		0.66	20.1		
BH01@5	1031		0.68	20.1		
BH02@0	1030		0.16	19.9		
BH02@1	1034		2.94	19.7		
BH02@2	1035		0.94	20.0		
BH02@3	1037		1.05	20.1		
BH02@4	1040		0.56	20.0		
BH02@5	1041		0.63	20.0		
BH03@0	1044		0.13	20.1		
BH03@1	1046		0.18	19.9		
BH03@2	1048		0.37	20.2		
BH03@3	1050		0.86	19.9		
BH03@4	1051		0.69	20.0		
BH03@5	1053		0.26	20.1		
BH04@0	1057		0.05	19.9		
BH04@1	1059		0.28	19.9		

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
mositure level: dry, moist, wet

20 rows/sheet

SMA FIELD SCREENING

LOCATION NAME: Devon Rio Blanco 33 Fed 2 SAMPLING DATE: November 28, 2022

SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
BH04@2	1100		0.21	19.8		
BH04@3	1102		0.18	19.0		
BH04@4	1104		0.22	20.3		
BH04@5	1106		0.11	20.0		
BH05@0	1114		0.12	20.1		
BH05@1	1117		0.93	19.9		
BH05@2	1118		0.14	19.7		
BH05@3	1120		0.24	20.2		
BH05@4	1122		0.21	20.1		
BH05@5	1123		0.10	20.2		
BH06@0	1128		0.08	20.0		
BH06@1	1130		0.64	20.0		
BH06@2	1132		0.18	20.1		
BH06@3	1134		0.17	20.2		
BH06@3.5	1137		0.13	20.1		
BH07@0	1139		0.04	20.1		
BH07@1	1141		0.10	20.2		
BH07@2	1143		0.13	19.7		
BH07@3	1146		0.15	19.9		
BH07@4	1147		0.21	19.7		

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
mositure level: dry, moist, wet

20 rows/sheet

SMA FIELD SCREENING

LOCATION NAME: Devon Rio Blanco 33 Fed 2 SAMPLING DATE: November 28, 2022

SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
BH07@5	1149		0.10	19.9		
BH08@0	1154		0.05	20.0		
BH08@1	1156		0.12	19.9		
BH08@2	1157		0.20	19.7		
BH08@3	1159		0.45	20.1		
BH08@4	1201		0.43	19.9		
BH08@5	1203		0.36	20.0		
BH09@0	1332		0.04	19.8		
BH09@1	1334		0.17	19.8		
BH09@2	1335		0.18	20.4		
BH09@3	1337		0.15	20.8		
BH09@4	1338		0.10	20.2		
BH09@5	1339		0.09	20.1		
BH10@0 ~~BH07~~	1341		0.06	19.9		
BH10@1	1347		0.08	20.6		
BH10@2	1349		0.10	20.1		
BH10@3 ~~BH08~~	1351		0.16	20.1		
BH10@4	1352		0.10	19.8		
BH10@4.5	1354		0.13	20.0		

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
mositure level: dry, moist, wet

20 rows/sheet

SMA FIELD SCREENING

LOCATION NAME: Rio Blanco 33 Fed 2 Devon SAMPLING DATE: December 6, 2022

SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
BH11@0	1110		0.12	18.4		
BH11@1	1111		0.43	19.3		
BH11@2	1112		0.16	18.1		
BH11@3	1113		0.14	18.3		
BH11@4	1114		0.08	18.4		
BH11@4.5	1116		0.18	18.4		
						December 7, 2022
BH12@0	1148		0.38	18.9		
BH12@1	1150		1.40	19.2		
BH12@2	1151		0.43	19.0		
BH12@3	1152		0.51	19.0		
BH12@4	1153		0.39	18.9		
BH12@5	1155		0.28	18.8		
BH13@0	1157		0.09	18.9		
BH13@1	1158		0.25	18.9		
BH13@2	1159		0.26	18.9		
BH13@3	1200		0.34	18.9		
BH13@4	1201		0.30	19.0		
BH13@5	1203		0.40	19.0		

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
mositure level: dry, moist, wet

20 rows/sheet

SMA FIELD SCREENING

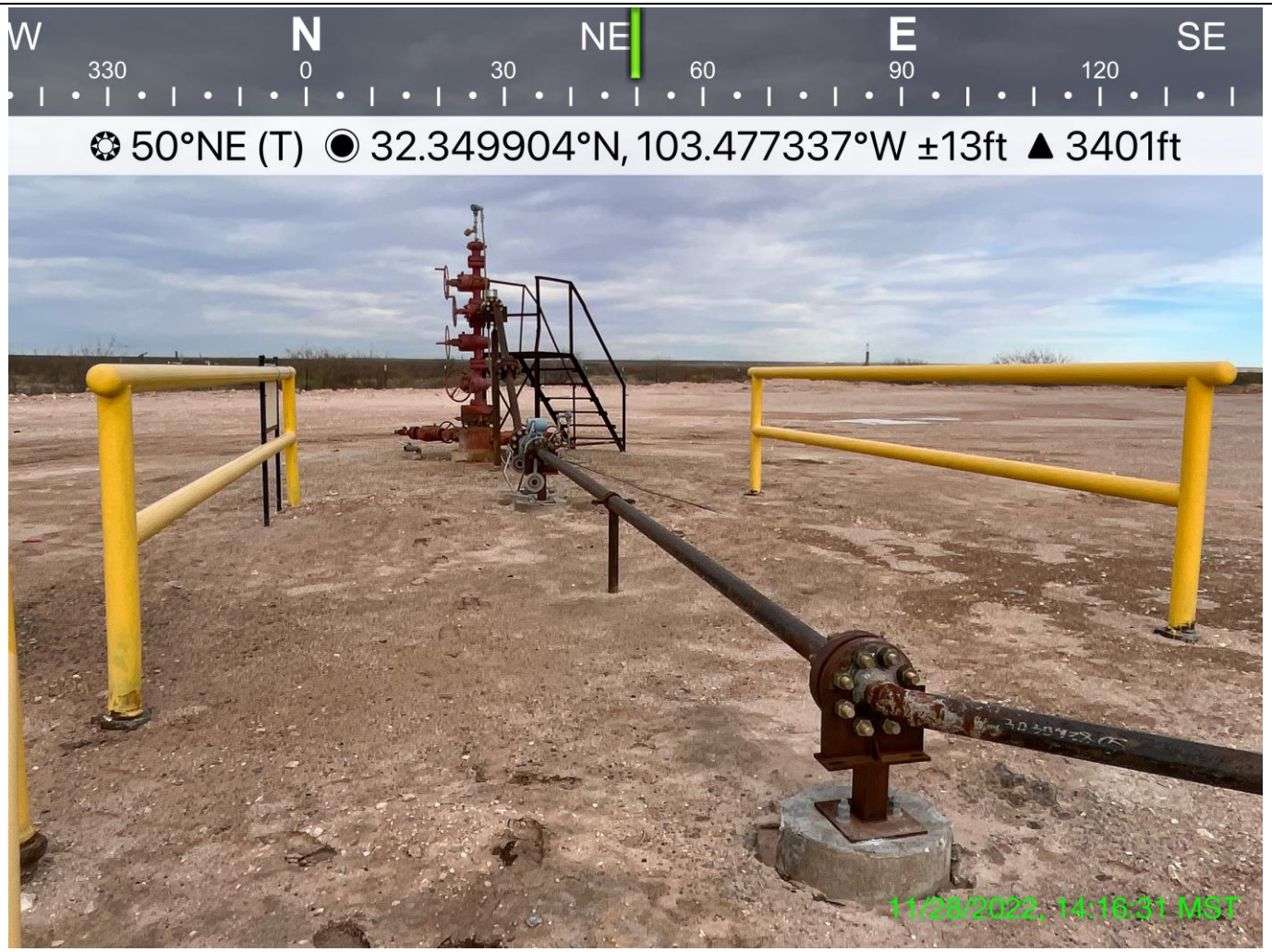
LOCATION NAME: Devon Rio Blanco 33 Fed 2 SAMPLING DATE: December 7, 2022

SAMPLE NAME	Collection Time	PID Reading	EC (mS)	Temp (°C)	PetroFlag	NOTES/REMARKS/SOIL DESCRIPTION
BH14@0	1205		0.06	19.0		
BH14@1	1206		0.33	19.0		
BH14@2	1207		0.45	18.9		
BH14@3	1208		0.31	18.9		
BH14@4.0 NAD	1209 NAD		0.33	18.9		
BH14@4.5	1210		0.54	18.9		

soil color: light, dark, tan, brown, yellow, red, olive, gray
soil type: gravel, rock, sand, silty, clay
mositure level: dry, moist, wet

20 rows/sheet

Photograph Log
Rio Blanco 33 Fed 2
Devon Energy Production Company

Photograph #1	
Client: Devon Energy	
Site Name: Rio Blanco 33 Fed 2	
Date Photo Taken: November 28, 2022	
Release Location: -103.4771576W, 32.3499985N S: 33 T: 22S R: 34E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: View facing northeast of the wellhead area.

Photograph Log
Rio Blanco 33 Fed 2
Devon Energy Production Company

Photograph #2	
Client: Devon Energy	
Site Name: Rio Blanco 33 Fed 2	
Date Photo Taken: November 28, 2022	
Release Location: -103.4771576W, 32.3499985N S: 33 T: 22S R: 34E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: View facing southwest toward the well pad entrance. Flow line visible in foreground.

Photograph Log
Rio Blanco 33 Fed 2
Devon Energy Production Company

Photograph #3	
Client: Devon Energy	
Site Name: Rio Blanco 33 Fed 2	
Date Photo Taken: November 28, 2022	
Release Location: -103.4771576W, 32.3499985N S: 33 T: 22S R: 34E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: View facing southwest toward well pad entrance.

Photograph Log
Rio Blanco 33 Fed 2
Devon Energy Production Company

Photograph #4	
Client: Devon Energy	
Site Name: Rio Blanco 33 Fed 2	
Date Photo Taken: November 28, 2022	
Release Location: -103.4771576W, 32.3499985N S: 33 T: 22S R: 34E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: View facing west-northwest showing well pad entrance.

Photograph Log
Rio Blanco 33 Fed 2
Devon Energy Production Company

Photograph #5	
Client: Devon Energy	
Site Name: Rio Blanco 33 Fed 2	
Date Photo Taken: November 28, 2022	
Release Location: -103.4771576W, 32.3499985N S: 33 T: 22S R: 34E Lea County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: View facing north-northwest of showing northwest corner of well pad.

APPENDIX D

SAMPLING PROTOCOL

Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88220
(575) 689-8801

Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Analytical Laboratory in Farmington, New Mexico for analysis. Samples collected for laboratory analysis were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site field screening and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

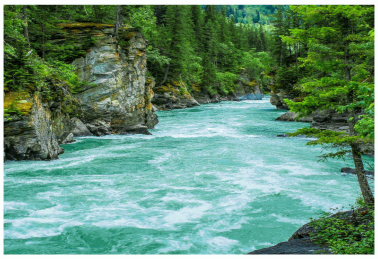
COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Report to:

Heather Woods



5796 U.S. Hwy 64
Farmington, NM 87401

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

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Rio Blanco 33 Fed 2
Work Order:	E211172
Job Number:	01058-0007
Received:	11/30/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/5/22

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

Date Reported: 12/5/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Rio Blanco 33 Fed 2
Workorder: E211172
Date Received: 11/30/2022 11:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2022 11:00:00AM, under the Project Name: Rio Blanco 33 Fed 2.

The analytical test results summarized in this report with the Project Name: Rio Blanco 33 Fed 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/05/22 10:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 0	E211172-01A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH04 @ 5	E211172-02A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH02 @ 3	E211172-03A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH04 @ 3	E211172-04A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH10 @ 2	E211172-05A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH08 @ 4	E211172-06A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH07 @ 2	E211172-07A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH06 @ 1	E211172-08A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH05 @ 3	E211172-09A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH06 @ 0	E211172-10A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH09 @ 5	E211172-11A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH10 @ 4.5	E211172-12A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH05 @ 1	E211172-13A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH01 @ 3	E211172-14A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH03 @ 3	E211172-15A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH07 @ 0	E211172-16A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH01 @ 5	E211172-17A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH02 @ 1	E211172-18A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH06 @ 2	E211172-19A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH01 @ 1	E211172-20A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH01 @ 0

E211172-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	**55.5**	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	**75.1**	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**3700**	40.0	2	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH04 @ 5

E211172-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**22.6**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH02 @ 3

E211172-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**1520**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH04 @ 3

E211172-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**115**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH10 @ 2

E211172-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**25.4**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH08 @ 4

E211172-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**472**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH07 @ 2

E211172-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	ND	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH06 @ 1

E211172-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*108 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**542**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH05 @ 3

E211172-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**168**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH06 @ 0

E211172-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	ND	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH09 @ 5

E211172-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	ND	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH10 @ 4.5

E211172-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*103 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**25.5**	20.0	1	11/30/22	11/30/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH05 @ 1

E211172-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**628**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH01 @ 3

E211172-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*118 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**731**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH03 @ 3

E211172-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.9 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**795**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH07 @ 0

E211172-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*95.9 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH01 @ 5

E211172-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**315**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH02 @ 1

E211172-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**3750**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH06 @ 2

E211172-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**63.4**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

BH01 @ 1

E211172-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2249039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249048
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249041
Chloride	**4550**	40.0	2	11/30/22	12/01/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249039-BLK1)									Prepared: 11/30/22 Analyzed: 11/30/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.81*		*8.00*		*97.7*	*70-130*			
LCS (2249039-BS1)									Prepared: 11/30/22 Analyzed: 11/30/22
Benzene	4.53	0.0250	5.00		90.7	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130			
Toluene	4.90	0.0250	5.00		98.1	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2249039-MS1)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	3.91	0.0250	5.00	ND	78.2	54-133			
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	61-133			
Toluene	4.21	0.0250	5.00	ND	84.2	61-130			
o-Xylene	4.28	0.0250	5.00	ND	85.6	63-131			
p,m-Xylene	8.48	0.0500	10.0	ND	84.8	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			
Matrix Spike Dup (2249039-MSD1)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	3.77	0.0250	5.00	ND	75.4	54-133	3.69	20	
Ethylbenzene	4.02	0.0250	5.00	ND	80.4	61-133	3.61	20	
Toluene	4.04	0.0250	5.00	ND	80.7	61-130	4.22	20	
o-Xylene	4.12	0.0250	5.00	ND	82.4	63-131	3.80	20	
p,m-Xylene	8.18	0.0500	10.0	ND	81.8	63-131	3.53	20	
Total Xylenes	12.3	0.0250	15.0	ND	82.0	63-131	3.62	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.60*		*8.00*		*95.0*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249039-BLK1)									Prepared: 11/30/22 Analyzed: 11/30/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.50*		*8.00*		*93.8*	*70-130*			
LCS (2249039-BS2)									Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.50*		*8.00*		*93.8*	*70-130*			
Matrix Spike (2249039-MS2)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.1*	*70-130*			
Matrix Spike Dup (2249039-MSD2)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.3	70-130	5.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.1*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249048-BLK1)									Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.4*		*50.0*		*105*	*50-200*			
LCS (2249048-BS1)									Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	*53.3*		*50.0*		*107*	*50-200*			
Matrix Spike (2249048-MS1)				**Source: E211172-05**					Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	*52.7*		*50.0*		*105*	*50-200*			
Matrix Spike Dup (2249048-MSD1)				**Source: E211172-05**					Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	0.131	20	
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 10:55:30AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249041-BLK1)									Prepared: 11/30/22 Analyzed: 11/30/22
Chloride	ND	20.0							
LCS (2249041-BS1)									Prepared: 11/30/22 Analyzed: 11/30/22
Chloride	275	20.0	250		110	90-110			
Matrix Spike (2249041-MS1)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 11/30/22
Chloride	3540	40.0	250	3700	NR	80-120			M2
Matrix Spike Dup (2249041-MSD1)				**Source: E211172-01**					Prepared: 11/30/22 Analyzed: 11/30/22
Chloride	3800	40.0	250	3700	36.5	80-120	6.94	20	M2

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

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/05/22 10:55

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

Project Information

Client: Souder Miller + Associates
Project: RB Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip Carlsbad NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E211172
Job Number 01058-0007

TAT: 1D / 3D (Sd)

EPA Program: RCRA / CWA / SDWA

State: NM (X) / CO / UT / AZ / TX / OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
11/28	1020	S	1	BH01@0	1	X	
11/28	1106	S	1	BH04@5	2	X	
11/28	1037	S	1	BH02@3	3	X	
11/28	1102	S	1	BH04@3	4	X	
11/28	1349	S	1	BH10@2	5	X	
11/28	1201	S	1	BH08@4	6	X	
11/28	1143	S	1	BH07@2	7	X	
11/28	1130	S	1	BH06@1	8	X	
11/28	1120	S	1	BH05@3	9	X	
11/28	1128	S	1	BH06@0	10	X	

Additional Instructions:
Please send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/28/22	1630	Michelle K. Gonzales	11-29-22	0900
Relinquished by: (Signature)	11-29-22	1600	Received by: (Signature)	11/30/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

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

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

envirotech

Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

5d

Project Information

Client: Souder Miller & Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip: Carlsbad NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E21172
Job Number 01058-0007

TAT: 1D | 3D — RCRA | CWA | SDWA

EPA Program

State: NM | CO | UT | AZ — TX | OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
11/28	1339	S	1	BH09@5	11									X				
11/28	1354	S	1	BH10@4.5	12									X				
11/28	1117	S	1	BH05@1	13									X				
11/28	1024	S	1	BH01@3	14									X				
11/28	1050	S	1	BH03@3	15									X				
11/28	1139	S	1	BH07@0	16									X				
11/28	1031	S	1	BH01@5	17									X				
11/28	1034	S	1	BH02@1	18									X				
11/28	1132	S	1	BH06@2	19									X				
11/28	1021	S	1	BH01@1	20									X				

Additional Instructions:
Please Send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/28/22	1630	Michelle R. Cuevas	11-29-22	0900
Michelle Cuevas	11-29-22	1600	Caitlin Christian	11/30/22	11:00

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/30/2022 1:07:23PM

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:	Souder Miller Associates - Carlsbad	Date Received:	11/30/22 11:00	Work Order ID:	E211172
Phone:	(575) 200-5443	Date Logged In:	11/30/22 09:52	Logged In By:	Caitlin Christian
Email:		Due Date:	12/06/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

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

Comments/Resolution

Project Rio Blanco 33 Fed 2 has been separated into 2 reports. Workorders are as follows: E211172 & E211173. White out is on COC by client.

Client Instruction

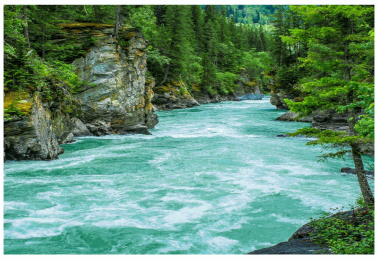
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Heather Woods



5796 U.S. Hwy 64
Farmington, NM 87401

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

NELAP ACCREDITED TNI LABORATORY

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Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Rio Blanco 33 Fed 2
Work Order:	E211173
Job Number:	01058-0007
Received:	11/30/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/5/22

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

Date Reported: 12/5/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Rio Blanco 33 Fed 2
Workorder: E211173
Date Received: 11/30/2022 11:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2022 11:00:00AM, under the Project Name: Rio Blanco 33 Fed 2.

The analytical test results summarized in this report with the Project Name: Rio Blanco 33 Fed 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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Technical Representative/Client Services
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Cell: 505-320-4759
ljarboe@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

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/05/22 11:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 @ 5	E211173-01A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH05 @ 5	E211173-02A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH06 @ 3.5	E211173-03A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH08 @ 2	E211173-04A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH03 @ 5	E211173-05A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH05 @ 0	E211173-06A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH02 @ 5	E211173-07A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH07 @ 5	E211173-08A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH09 @ 3	E211173-09A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH10 @ 0	E211173-10A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH09 @ 2	E211173-11A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH08 @ 0	E211173-12A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH09 @ 0	E211173-13A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH03 @ 0	E211173-14A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH04 @ 0	E211173-15A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH04 @ 1	E211173-16A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH10 @ 3	E211173-17A	Soil	11/28/22	11/30/22	Glass Jar, 4 oz.
BH02 @ 0	E211173-18A	Soil	11/28/22	11/30/22	Glass Jar, 2 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH08 @ 5

E211173-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.7 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**434**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH05 @ 5

E211173-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*111 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**36.6**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH06 @ 3.5

E211173-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.9 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/01/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/01/22*	*12/01/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**50.7**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH08 @ 2

E211173-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**106**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH03 @ 5

E211173-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**277**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH05 @ 0

E211173-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH02 @ 5

E211173-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**1020**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH07 @ 5

E211173-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.1 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**51.3**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH09 @ 3

E211173-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH10 @ 0

E211173-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*103 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH09 @ 2

E211173-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**39.4**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH08 @ 0

E211173-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*115 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH09 @ 0

E211173-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*111 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH03 @ 0

E211173-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	**68.8**	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	**208**	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH04 @ 0

E211173-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.2 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*102 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	ND	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH04 @ 1

E211173-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**191**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH10 @ 3

E211173-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*111 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**64.5**	20.0	1	11/30/22	12/01/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

BH02 @ 0

E211173-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Benzene	ND	0.0250	1	11/30/22	12/01/22	
Ethylbenzene	ND	0.0250	1	11/30/22	12/01/22	
Toluene	ND	0.0250	1	11/30/22	12/01/22	
o-Xylene	ND	0.0250	1	11/30/22	12/01/22	
p,m-Xylene	ND	0.0500	1	11/30/22	12/01/22	
Total Xylenes	ND	0.0250	1	11/30/22	12/01/22	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2249040
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/22	12/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*11/30/22*	*12/01/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2249047
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/22	12/02/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/22	12/02/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*12/01/22*	*12/02/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2249042
Chloride	**87.2**	20.0	1	11/30/22	12/01/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249040-BLK1)									Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*8.01*		*8.00*		*100*	*70-130*			
LCS (2249040-BS1)									Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	4.49	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130			
Toluene	4.87	0.0250	5.00		97.4	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.9	0.0250	15.0		99.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.07*		*8.00*		*101*	*70-130*			
Matrix Spike (2249040-MS1)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	5.07	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.49	0.0250	5.00	ND	110	61-133			
Toluene	5.50	0.0250	5.00	ND	110	61-130			
o-Xylene	5.65	0.0250	5.00	ND	113	63-131			
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131			
Total Xylenes	16.8	0.0250	15.0	ND	112	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.02*		*8.00*		*100*	*70-130*			
Matrix Spike Dup (2249040-MSD1)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Benzene	4.43	0.0250	5.00	ND	88.5	54-133	13.6	20	
Ethylbenzene	4.75	0.0250	5.00	ND	95.1	61-133	14.4	20	
Toluene	4.77	0.0250	5.00	ND	95.4	61-130	14.2	20	
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131	14.7	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	14.1	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131	14.3	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.98*		*8.00*		*99.8*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249040-BLK1)									Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.78*		*8.00*		*97.3*	*70-130*			
LCS (2249040-BS2)									Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2249040-MS2)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.87*		*8.00*		*98.4*	*70-130*			
Matrix Spike Dup (2249040-MSD2)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		*8.00*		*97.6*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249047-BLK1)									Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*53.1*		*50.0*		*106*	*50-200*			
LCS (2249047-BS1)									Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	248	25.0	250		99.0	38-132			
Surrogate: n-Nonane	*53.4*		*50.0*		*107*	*50-200*			
Matrix Spike (2249047-MS1)				**Source: E211173-05**					Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	*52.5*		*50.0*		*105*	*50-200*			
Matrix Spike Dup (2249047-MSD1)				**Source: E211173-05**					Prepared: 12/01/22 Analyzed: 12/01/22
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.8	38-132	2.11	20	
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/5/2022 11:02:10AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2249042-BLK1)									Prepared: 11/30/22 Analyzed: 12/01/22
Chloride	ND	20.0							
LCS (2249042-BS1)									Prepared: 11/30/22 Analyzed: 12/01/22
Chloride	273	20.0	250		109	90-110			
Matrix Spike (2249042-MS1)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Chloride	715	20.0	250	434	112	80-120			
Matrix Spike Dup (2249042-MSD1)				**Source: E211173-01**					Prepared: 11/30/22 Analyzed: 12/01/22
Chloride	693	20.0	250	434	104	80-120	3.03	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

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/05/22 11:02

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

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

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

Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

5d

Project Information

Client: Souder Miller & Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip: Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE211173
Job Number 01058-0007

TAT: 1D | 3D
EPA Program: RCRA | CWA | SDWA
State: NM | CO | UT | AZ; TX | OK

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC - NM | BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
11/28	1203	S	1	BH08@5	1	X	
11/28	1123	S	1	BH05@5	2	X	
11/28	1137	S	1	BH06@3.5	3	X	
11/28	1157	S	1	BH08@2	4	X	
11/28	1053	S	1	BH03@5	5	X	
11/28	1114	S	1	BH05@0	6	X	
11/28	1041	S	1	BH02@5	7	X	
11/28	1149	S	1	BH07@5	8	X	
11/28	1337	S	1	BH09@3	9	X	
11/28	1341	S	1	BH10@0	10	X	

Additional Instructions:
Please send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/28/22	1630	Michelle R. Gupta	11-29-22	0900
Michelle R. Gupta	11-29-22	1600	Cathy Chute	11/30/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

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

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

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Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

Project Information

Client:	Souder Miller & Associates
Project:	Rio Blanco 33 Fed 2
Project Manager:	Heather Woods
Address:	201 S Halagueno
City, State, Zip	Carlsbad, NM 88220
Phone:	
Email:	
Report due by:	

Bill To

Attention:	Devon
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
PE211173	01058-0007

TAT: 1D / 3D / 5d (5d)

EPA Program: RCRA / CWA / SDWA

State: NM (X) / CO / UT / AZ / TX / OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
11/28	1335	S	1	BH09@2	11									X				
11/28	1154	S	1	BH08@0	12									X				
11/28	1332	S	1	BH09@0	13									X				
11/28	1044	S	1	BH03@0	14									X				
11/28	1057	S	1	BH04@0	15									X				
11/28	1059	S	1	BH04@1	16									X				
11/28	1351	S	1	BH10@3	17									X				

Additional Instructions: Please Send to Heather, Sarah may, Georgeann

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

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

	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	11/28/22	1630	Michelle R. Gutierrez	11-29-22	0900
Relinquished by: (Signature)	11-29-22	1600	Courtney Christian	11/30/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/30/2022 1:32:45PM

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:	Souder Miller Associates - Carlsbad	Date Received:	11/30/22 11:00	Work Order ID:	E211173
Phone:	(575) 200-5443	Date Logged In:	11/30/22 09:53	Logged In By:	Caitlin Christian
Email:		Due Date:	12/06/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

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

Comments/Resolution

Project Rio Blanco 33 Fed 2 has been separated into 2 reports. Workorders are as follows: E211172 & E211173. Received extra sample BH02 @ 0. Client asked to add sample to COC.

Client Instruction

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

Date

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Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

5d

Project Information

Client: Souder Miller & Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip: Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO#: E211173
Job Number: 01058-0007

TAT: 1D / 3D

EPA Program: RCRA / CWA / SDWA

State: NM X / CO / UT / AZ / TX / OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
11/28	1203	S	1	BH08@5	1	X	
11/28	1123	S	1	BH05@5	2	X	
11/28	1137	S	1	BH06@3.5	3	X	
11/28	1157	S	1	BH08@2	4	X	
11/28	1053	S	1	BH03@5	5	X	
11/28	1114	S	1	BH05@0	6	X	
11/28	1041	S	1	BH02@5	7	X	
11/28	1149	S	1	BH07@5	8	X	
11/28	1337	S	1	BH09@3	9	X	
11/28	1341	S	1	BH10@0	10	X	

Additional Instructions:
Please send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/28/22	1630	Middle R. Gypsy	11-29-22	0900
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Middle R. Gypsy	11-29-22	1600	Cathy Chute	11/30/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

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

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

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Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

5d

Project Information

Client: Souder Miller & Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE 211173
Job Number 01058-0007

TAT: 1D | 3D (3D)

EPA Program: RCRA | CWA | SDWA

State: NM (X) | CO | UT | AZ | TX | OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
11/28	1335	S	1	BH09@2	11							X		
11/28	1154	S	1	BH08@0	12							X		
11/28	1332	S	1	BH09@0	13							X		
11/28	1044	S	1	BH03@0	14							X		
11/28	1057	S	1	BH04@0	15							X		
11/28	1059	S	1	BH04@1	16							X		
11/28	1351	S	1	BH10@3	17							X		
11/28	1030	S	1	BH02@0	18							X		
				Received extra sample.										
				Client asked to add to COC 11/30/22 CC										

Additional Instructions:
Please Send to Heather, Sarah may, Georgeann

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/28/22	1630	Michelle Cuyler	11-29-22	0900
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11-29-22	1600	Caitlin Christian	11/30/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

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

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

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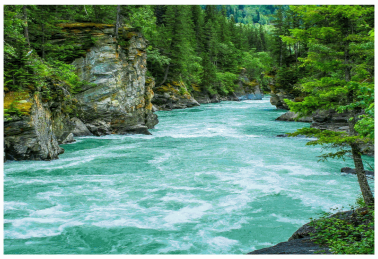
Report to:

Heather Woods



5796 U.S. Hwy 64
Farmington, NM 87401

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

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Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Rio Blanco 33 Fed 2
Work Order:	E212056
Job Number:	01057-0007
Received:	12/9/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/12/22

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

Date Reported: 12/12/22

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Rio Blanco 33 Fed 2
Workorder: E212056
Date Received: 12/9/2022 10:40:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2022 10:40:00AM, under the Project Name: Rio Blanco 33 Fed 2.

The analytical test results summarized in this report with the Project Name: Rio Blanco 33 Fed 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Table of Contents

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01057-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/22 16:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 @ 0	E212056-01A	Soil	12/06/22	12/09/22	Glass Jar, 2 oz.
BH11 @ 1	E212056-02A	Soil	12/06/22	12/09/22	Glass Jar, 2 oz.
BH11 @ 3	E212056-03A	Soil	12/06/22	12/09/22	Glass Jar, 2 oz.
BH11 @ 4.5	E212056-04A	Soil	12/06/22	12/09/22	Glass Jar, 2 oz.
BH12 @ 0	E212056-05A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH12 @ 1	E212056-06A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH12 @ 3	E212056-07A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH12 @ 5	E212056-08A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH13 @ 0	E212056-09A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH13 @ 1	E212056-10A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH13 @ 3	E212056-11A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH13 @ 5	E212056-12A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH14 @ 0	E212056-13A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH14 @ 1	E212056-14A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH14 @ 3	E212056-15A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.
BH14 @ 5	E212056-16A	Soil	12/07/22	12/09/22	Glass Jar, 2 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH11 @ 0

E212056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	ND	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH11 @ 1

E212056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**203**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH11 @ 3

E212056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**37.6**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH11 @ 4.5

E212056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*112 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**42.1**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH12 @ 0

E212056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**361**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH12 @ 1

E212056-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**1510**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH12 @ 3

E212056-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**432**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH12 @ 5

E212056-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*102 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**226**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH13 @ 0

E212056-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*108 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**26.0**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH13 @ 1

E212056-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**152**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH13 @ 3

E212056-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**226**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH13 @ 5

E212056-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/09/22	
Surrogate: n-Nonane		*112 %*	*50-200*	*12/09/22*	*12/09/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**523**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH14 @ 0

E212056-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/10/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*12/09/22*	*12/10/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	ND	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH14 @ 1

E212056-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/10/22	
Surrogate: n-Nonane		*114 %*	*50-200*	*12/09/22*	*12/10/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**171**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH14 @ 3

E212056-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/10/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/10/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**171**	20.0	1	12/09/22	12/09/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

BH14 @ 5

E212056-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Benzene	ND	0.0250	1	12/09/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/09/22	12/10/22	
Toluene	ND	0.0250	1	12/09/22	12/10/22	
o-Xylene	ND	0.0250	1	12/09/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/09/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/09/22	12/10/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2250087
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/22	12/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*12/09/22*	*12/10/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2250083
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/22	12/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/22	12/10/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*12/09/22*	*12/10/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2250090
Chloride	**588**	20.0	1	12/09/22	12/09/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01057-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2250087-BLK1)									Prepared: 12/09/22 Analyzed: 12/10/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			
LCS (2250087-BS1)									Prepared: 12/09/22 Analyzed: 12/10/22
Benzene	4.83	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.4	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.7*	*70-130*			
Matrix Spike (2250087-MS1)				**Source: E212056-02**					Prepared: 12/09/22 Analyzed: 12/10/22
Benzene	4.16	0.0250	5.00	ND	83.3	54-133			
Ethylbenzene	4.27	0.0250	5.00	ND	85.4	61-133			
Toluene	4.37	0.0250	5.00	ND	87.4	61-130			
o-Xylene	4.42	0.0250	5.00	ND	88.5	63-131			
p,m-Xylene	8.66	0.0500	10.0	ND	86.6	63-131			
Total Xylenes	13.1	0.0250	15.0	ND	87.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.81*		*8.00*		*97.6*	*70-130*			
Matrix Spike Dup (2250087-MSD1)				**Source: E212056-02**					Prepared: 12/09/22 Analyzed: 12/10/22
Benzene	4.55	0.0250	5.00	ND	91.1	54-133	8.99	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.5	61-133	9.04	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	9.06	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	8.78	20	
p,m-Xylene	9.46	0.0500	10.0	ND	94.6	63-131	8.86	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.3	63-131	8.83	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.2*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01057-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2250087-BLK1)									Prepared: 12/09/22 Analyzed: 12/10/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2250087-BS2)									Prepared: 12/09/22 Analyzed: 12/10/22
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.1*	*70-130*			
Matrix Spike (2250087-MS2)				**Source: E212056-02**					Prepared: 12/09/22 Analyzed: 12/10/22
Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.41*		*8.00*		*92.7*	*70-130*			
Matrix Spike Dup (2250087-MSD2)				**Source: E212056-02**					Prepared: 12/09/22 Analyzed: 12/10/22
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	10.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.8*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01057-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2250083-BLK1)									Prepared: 12/09/22 Analyzed: 12/09/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.4*		*50.0*		*115*	*50-200*			
LCS (2250083-BS1)									Prepared: 12/09/22 Analyzed: 12/09/22
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*50-200*			
Matrix Spike (2250083-MS1)				**Source: E212056-07**					Prepared: 12/09/22 Analyzed: 12/09/22
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*54.9*		*50.0*		*110*	*50-200*			
Matrix Spike Dup (2250083-MSD1)				**Source: E212056-07**					Prepared: 12/09/22 Analyzed: 12/09/22
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	3.32	20	
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	**Reported:**
201 S Halagueno St.	Project Number:	01057-0007	
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/2022 4:28:27PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2250090-BLK1)									Prepared: 12/09/22 Analyzed: 12/09/22
Chloride	ND	20.0							
LCS (2250090-BS1)									Prepared: 12/09/22 Analyzed: 12/09/22
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2250090-MS1)				**Source: E212056-01**					Prepared: 12/09/22 Analyzed: 12/09/22
Chloride	280	20.0	250	ND	112	80-120			
Matrix Spike Dup (2250090-MSD1)				**Source: E212056-01**					Prepared: 12/09/22 Analyzed: 12/09/22
Chloride	278	20.0	250	ND	111	80-120	0.822	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

Souder Miller Associates - Carlsbad	Project Name:	Rio Blanco 33 Fed 2	
201 S Halagueno St.	Project Number:	01057-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Heather Woods	12/12/22 16:28

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

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

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

Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

2 Day

Project Information

Client: Souder Miller + Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip Carlsbad NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:
WO# 20987302

Lab Use Only
Lab WO# PE212054 Job Number 01058-0007

TAT: 1D | 3D — 3D

EPA Program: RCRA | CWA | SDWA

State: NM X | CO | UT | AZ | TX | OK

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC - NM | BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
1110	12/6	S	1	BH11@0	1	X	
1111	12/6	S	1	BH11@1	2	X	
1113	12/6	S	1	BH11@3	3	X	
1116	12/6	S	1	BH11@4.5	4	X	
1148	12/7	S	1	BH12@0	5	X	
1150	12/7	S	1	BH12@1	6	X	
1152	12/7	S	1	BH12@3	7	X	
1155	12/7	S	1	BH12@5	8	X	
1157	12/7	S	1	BH13@0	9	X	
1158	12/7	S	1	BH13@1	10	X	

Additional Instructions:
Please Send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/7/22	345	Michelle Gp	12-8-22	0830
Michelle Gp	12-8-22	1600		12/9/22	10:40

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

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

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

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

envirotech

Released to Imaging: 1/12/2023 11:36:13 AM
Received by OCD: 12/16/2022 3:00:30 PM

Chain of Custody

Project Information

Client: Souder Miller & Associates
Project: Rio Blanco 33 Fed 2
Project Manager: Heather Woods
Address: 201 S Halagueno
City, State, Zip: Carlsbad NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:
WO#20987302

Lab Use Only
Lab WO# PE2120526
Job Number 01058-0007

TAT 2day: 1D / 3D

EPA Program: RCRA / CWA / SDWA

State: NM X / CO / UT / AZ / TX / OK

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC - NM | BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
1200	12/7	S	1	BH13@3	11	X	
1203	12/7	S	1	BH13@5	12	X	
1205	12/7	S	1	BH14@0	13	X	
1206	12/7	S	1	BH14@1	14	X	
1208	12/7	S	1	BH14@3	15	X	
1210	12/7	S	1	BH14@5	16	X	

Additional Instructions:
Please send to Heather Woods, Sarahmay Schlea, Georgeann Goodman

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/7/22	345	Michelle Cyr	12-8-22	0830
Michelle Cyr	12-8-22	1600	Della Chute	12/9/22	10:40

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/9/2022 11:31:52AM

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:	Souder Miller Associates - Carlsbad	Date Received:	12/09/22 10:40	Work Order ID:	E212056
Phone:	(575) 200-5443	Date Logged In:	12/08/22 16:58	Logged In By:	Caitlin Christian
Email:		Due Date:	12/12/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

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

Comments/Resolution

Sample #16. BH14 @ 5 Sample jar was labeled BH14 @ 4.5.

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
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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

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

OCD Only

Received by: Date:

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
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?	282 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
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: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

email: Dale.Woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727241068
District RP	1RP-4829
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: Env. Professional

Signature: Dale Woodall Date: 12/16/2022

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: Jennifer Nobui Date: 01/12/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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 167911

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 167911
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	1/12/2023